# UNIVERSIDAD DE EL SALVADOR FACULTAD MULTIDISCIPLINARIA DE OCCIDENTE FOREIGN LANGUAGE DEPARTMENT



#### **UNDERGRADUATE WORK**

A PROPOSAL TO DESIGN THE PLATFORM E-GLOO FOR ENGLISH GRAMMAR
TEACHER CONTENT DEVELOPMENT AND STUDENT LEARNING AT THE
ENGLISH LANGUAGE DEPARTMENT OF THE WESTERN MULTIDISCIPLINARY
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#### **ABSTRACT**

The present holistic projective research: "A Proposal to Design the Platform E-GLOO for English Grammar Teacher Content Development and Student Learning at the English Language Department of the Western Multidisciplinary Campus of the University of El Salvador-2020" had as a main objective to upgrade English Grammar teacher content development and student learning, but due to situations with the Covid-19 pandemic and the limitations that this caused, the research team was forced to modify the study and redesign the model of the platform E-GLOO. Moreover, this study highlights the importance of using virtual platforms not only in higher education but also in all educational levels, as well as the inconveniences that teacher and students could face using them. For this study, the English Grammar I Group I teacher and students at the English Language Department of the Western Multidisciplinary Campus of the University of El Salvador were selected, but due the current situation of the Covid-19 pandemic, the research team just worked with the English Grammar I Group I teacher. This holistic projective research was conducted under a qualitative method; to do so, the research team based the study on the data gathered on the interventions carried out in February, March, and July 2020. The data was gathering through the research tools questionnaires, interview, and discussions. Furthermore, the research team designed the E-GLOO platform in order to help and provide an exclusive environment for learning the English Language, where teacher can carry out any activity using the four English language skills. Consequently, this E-GLOO platform mockup will help future researchers to create this platform using this version as guideline, and thus incorporate all the resources that this platform offers and covers the English Grammar I Group I teacher and student's needs, as well as other teacher and students at English Language Department.

#### INTRODUCTION

The holistic projective research: "A Proposal to Design the Platform E-GLOO for English Grammar Teacher Content Development and Student Learning at the English Language Department of the Western Multidisciplinary Campus of the University of El Salvador-2020" carried out from February 2020 is to August 2020 focused on providing an alternative virtual platform that was easy to use and adaptable to users' basic technological knowledge. However, the project was modified due to the current situation of the Covid-19 pandemic, prompting the researchers to create a comprehensive projective research study focused on the design of the E-GLOO platform model as a guide for future interested researchers in the creation and development of new educational technologies.

This bibliographic information contains the importance of using virtual platforms as well as the problems that those platforms could cause when they have not been created or designed for a specific group of teacher and students; it was all owing the English Grammar I teacher and students expertise using virtual platforms. As a matter of fact, the purpose of carrying out this holistic projective study is to help English Grammar teacher content development and student learning at the English Language Department of the Western Multidisciplinary Campus of the University of El Salvador designing a platform that covered all their necessities.

Thus, this holistic projective project consists of six chapters as follows: Chapter I "Statement of the problem" presents a detailed description of the phenomenon where it is possible to see how the educational system evolves day by day through technology, forcing students to teachers to find a way to adapt to it. The English grammar teacher and his students face these adaptation problems either because they have not had experience with the virtual tool, or there is an internal problem in the platform that only the developers of that software could solve. Seen this way, most of these drawbacks do not arise because the teacher and the students have not adapted, but because of the simple fact that the virtual tool does not adapt to its users, making it difficult for the teacher to develop content and learn the students. Besides, it included a general research objective, two specific objectives, as well as the respective hypothesis of change, justification, and limitations why this holistic projective work was done.

Chapter II "State of Art" presents useful bibliographic information about the benefits of incorporate virtual platforms at higher education, brief history of education through virtual environment, and the design of the platform E-GLOO.

Then, Chapter III "Methodological Design" describes the different phases through which this holistic projective study was carried out. It included paradigm, description of the environment, sampling procedure, research techniques, approaching the field of study, methods to interpret and analyze the information, operationalization of the variables, plan of action, validity and reliability of data collection instruments, ethical aspects, timeline, and budget.

Furthermore, Chapter IV "Project Proposal" describes the contents of the design of the Alpha version of the platform E-GLOO. It includes the proposal, the justification of the project, limitations, purpose, contents of the project, place, and budget.

Besides, Chapter "V" Analysis and Interpretation of Data" presents the findings found in this bibliographical study which were related to the planned objectives.

Finally, Chapter VI "Conclusions and Recommendations" contains the conclusions that were drawn by the research team during this holistic projective study and some recommendations for the English Grammar I teacher and students, and future researchers.

#### **CHAPTER I: STATEMENT OF THE PROBLEM**

# 1.1 Description of the problem

Online learning through virtual platforms is one of the most important changes in the educational area that this century has had. The emergence of virtual learning using educational platforms breaks the schemes that many educators have had over the many years about ideal teaching methods (education within four walls). Inasmuch as education is updated every day, the English Grammar Teacher must adapt to new alternatives for student learning. According to Ives & Jarvenpaa (1996) "warn that nothing will protect the business school from being swept into the current of technologically driven change" (Ahmad, 1999). These changes occur in all educational institutions, and the Western Multidisciplinary Campus of the University of El Salvador is not absent of this. The English Grammar I Group I teacher of Licenciatura en Idioma Inglés Opción Enseñanza at the Western Multidisciplinary Campus of the University of El Salvador uses educational platforms to extend learning beyond the four walls by implementing Blended Learning (B-Learning). Despite the fact that the English Grammar I teacher uses virtual platforms or Virtual Learning Environments (VLEs) such as Schoology, Edmodo, and Google Classroom among others, some of them rarely satisfy his needs and interests, as they are not easy to use and do not have an intuitive interface where both teacher and students can work in an effective and efficient way. That is why, the research team decided to propose the design of the platform E-GLOO, which meets teacher and students' needs and interests in English Grammar at the English Language Department of the Western Multidisciplinary Campus of the University of El Salvador-2020.

At the level of higher education, a large part of the universities use virtual platforms, unfortunately not all the experiences of incorporating ICT tools for the teaching learning process have provided the expected success for many reasons, such as problems with Internet connection or how to log in the platform, design exams with more than just simple items, and lack of experience using virtual platforms. In a recent study of Valencia, Enriquez, & Agredo, (2017), the integration of virtual education platforms offers an unlimited number of tools, which can be used at any time and space where people have a computer and an online connection. This allows both synchronous and asynchronous interaction and permanent communication between student-professor and student-student. Moreover, a virtual learning environment in educational

technology is a Web-based platform for digital aspects of courses of study, usually within educational institutions. VLEs typically allow participants to be organized into cohorts, groups, and roles present resources, activities and interactions within a course structure provide for the different stages of assessment report on participation (Marie, 2017). In this way, the purpose of designing the platform E-GLOO will take into account the positive characteristics that platforms like Edmodo, Schoology and Google Classroom provide, making improvements and applying them in a friendly and intuitive new interface, as well as, including new tools in order to cover teacher and students' needs and interests. For example, the teacher wants to create exams, which contains videos, images, and audios, where the students can implement the four English language skills (writing, reading, listening, and speaking) in English Grammar. Further, the students want the virtual platform work well without problems of connection or log in.

The propose of designing the platform E-GLOO steamed from the dissatisfaction of the teacher and students with some aspects of the uses of the virtual platform of the University as well as the platforms of Schoology, Edmodo, and Google Classroom. Firstly, the virtual platform of the University is not very functional and attractive.

Besides, this platform is very basic; it only has the profile, a calendar, instant messaging, and notifications. English Grammar group I teacher and students rarely use this platform since the it usually fails causing students' login problems. Likewise, when students send messages to teachers, they do not usually receive them because there is not a good internet connection with the UES server what causes the use of this platform is not favorable.

Second, Although Schoology gives the teacher and the students an opportunity to create courses in a friendly environment, this does not have video conferences, the activity of the students is not visualized, and the interface is basic since it is boring and confusing.

Third, Edmodo is a free platform that allows communication between the student and teacher, but this platform does not have enough storage space for all possible files that the teacher would like to upload to his students. English Grammar I is not an easy subject, and the fear of being criticized by classmates when giving an opinion or asking a question hinders student English Grammar learning by not being able to express freely. That is why, many people consider that another disadvantage Edmodo has is do not provide the option of having private messages between student and teacher. There are many others disadvantages that are found in

this platform such as do not have student activity viewer, there is no face-to-face interaction which can lead to feelings of isolation (video conferences), etc.

Finally, Google Classroom is a platform whose objective is to help the environment because both the teacher and the student avoid taking up so much paper since the documents will be viewed virtually. However, even though this platform is oriented to blended learning activities, it does not have the messaging tool, video conferences, it does not visualize the activity of the students, and the graphic interface is boring.

Due to inconveniences in each virtual platform, the researchers' propose to design the platform E-GLOO is to help English Grammar I Group I teacher and students by providing the necessary tools for them. According to Beal, (2020), "A very early version of a software product that may not contain all of the features that are planned for the final version. Typically, software goes through two stages of testing before it is considered finished. The first stage, called Alpha testing, is often performed only by users within the organization developing the software. The second stage, called beta testing, generally involves a limited number of external users." Since the platform E-GLOO will be a new educational site, at the beginning, it will be only implemented with the English Grammar Group I teacher and students at the English Language Department of the Western Multidisciplinary Campus of the University of El Salvador. Then, this platform can be used by all teachers and students of the English Language Department. Likewise, future researchers will be able to make improvements to the platform to benefit the teacher and students at English Language Department.

Therefore, as it is mentioned above, the English Grammar I Group I teacher uses a variety of virtual platforms to upload information, activities, and exams to the students. To gather suitable information about the students and teacher's experiences using virtual platforms, the researchers used two diagnostic tests, one semi-structure interview, and one open-ended questionnaire.

Firstly, according to the semi-structured interview (Appendix "A") addressed to the English Grammar Group I teacher where he answered some questions related to the advantages, disadvantages that virtual platforms have. The researchers realized how important and beneficial the use of a virtual platform is in the learning process. The teacher exposed that the graphic interface is not the principal part of the virtual platform since the main points are to

upload contents, design exams, and develop activities to the students. Besides, the use of a virtual platform drives teacher and students to be green by avoiding to wastepaper, and the same time students take advantages of the technological devices that they are accustomed to use. On the other hand, when the researchers asked the teacher if the platforms that he uses accomplish all his needs for creating activities or exams, he answered that there are some unnecessary tools of the virtual platforms, which he decides not to use because he does not take advantage of them. When the research team asked the teacher about what he thought of the creation of a new virtual platform exclusive to the English Language Department, he replied – "It will be awesome! It will give the opportunity of not customizing contents, courses, and lessons. Moreover, it will be a representation for the English Language Department."

Second, the research team passed open-ended questions (Appendix B) to the Grammar English group I students to gather information about their experiences using virtual platforms. The researchers found that the 90.3% of the students have used virtual platforms more than once. The students answered that they know about Schoology, Edmodo, Google Classroom, etc. However, the 9.7% of the students answered that they have not used any virtual platform before taking the subject English Grammar where the teacher asked them to use Schoology for developing activities. Besides, in the question, do you feel comfortable using a virtual platform? 87.5% of the students answered Yes, but the 12.5% of them said No because they have had problems with the internet connection, difficulties using the platform, and inconveniences to develop the activities. Otherwise, the students said that the virtual platform helps to make the sending of homework assignments easier, to take care of the environment by not wasting paper, to see the materials related to the class and at the same time practice, etc. On the other hand, the students answered that the use of a virtual platform is hard when it does not notify the new material o activities to work up, when the students do not know the platform, they have problems for answering exams or sending activities, or when the platform does not work for a while during an evaluation.

The two diagnostic tests revealed that it is notable the amount of teaching tools that are grouped into the virtual platforms that benefit students and teacher. "The educational platform allows teachers to create, manage more flexible content through the Internet, it is important to mention that the use of this tool should not only focus on the inclusion of educational materials,

but also between the interaction between teacher-student, as well as among the same students" (Grajeda, 2014).

Finally, this study will be very helpful because the teacher and students of English Grammar of English Language Department will benefit with the platform E-GLOO. Based on the gather data, the following questions arises:

#### 1.2 Research Questions

- ➤ How will the platform E-GLOO upgrade English Grammar Group I teacher content development and student learning at the English Language Department at the Western Multidisciplinary Campus of the University of El Salvador-2020?
- ➤ How will students' acquisition of English Grammar knowledge be facilitated through a virtual environment?
- ➤ What benefits will be obtained by integrating cutting-edge technological tools in the traditional teacher-student relationship?

# 1.3 Objectives

#### 1.3.1. General Objective

To upgrade English Grammar teacher content development and student learning at English Language Department of the Western Multidisciplinary Campus of the University of El Salvador-2020

# 1.3.2. Specific Objectives

- ➤ To lead English Grammar I Group I teacher and students to a secure and reliable space/place where they can share significant subject information each other
- To integrate cutting-edge technological tools that change the traditional teacher-student relationship into a modern, efficient, friendly, and functional one

### 1.4 Hypothesis of change

The researchers formulated the following hypothesis of change:

The design of the E-GLOO platform will ease English Grammar I Group I teacher knowledge sharing and students learning via VLE in the English Language Department of the Western Multidisciplinary Campus of the University of El Salvador-2020.

#### 1.5 Justification

Due to the changes implemented in education such as ICTs, virtual platforms play an important role in student learning. However, although platforms are a great tool for the development of content and practices for students, platforms generally have failures or resources that teachers or students rarely use. The research team has made the decision to design the platform E- GLOO for English Grammar Group I teacher and students at English Language Department of the Western Multidisciplinary Campus of the University of El Salvador-2020.

The platforms Schoology, Edmodo, and Google Classroom that the teacher uses do not allow the students to develop the four English language skills. However, they be incorporated into the platform E-GLOO since the teacher will be able to administer exams or evaluations that contain audios, images, videos, and items in each of the activities.

One of the most relevant features that the platform E-GLOO will have is the implementation of an e-library where the teacher will be able to search a variety of content related to his subject (English Grammar) such as books, magazines, articles, interviews, etc. Further, the e-library will help teacher to organize the documents that he will use for the development of class or activities to share with his students without going out of the platform. In addition to being able to download this information, the teacher can continue to expand his virtual e-library by uploading more content by himself. On the other hand, student will only be allowed to download the content that teacher wants share.

Finally, the platform E-GLOO will provide through tutorials that will explain step by step the use of each of the tools it will offer. In this way, it will be avoided that both the English Grammar group I teacher and the students do not have problems using the platform. Besides, although the platform E-GLOO will be implemented as Alpha version. It can be used by future students and teachers at the English Language Department since the platform will be exclusive

for the English Language Department. Likewise, future researchers may make improvements or incorporate new tools to facilitate content development and student learning.

# 1.6 Scope and Limitations of the Work

The Covid-19 pandemic has been the worst disease that has hit the world, not only because it is the worst nightmare that could ever have been imagined to happen, but also because it is the worst crisis that no one has been able to stop or find a cure since it began. The covid-19 pandemic has not only forced countries to close businesses or investments, but also forced educational institutions to change and adapt themselves to the circumstances and inconveniences, seeking technological tools such as virtual classrooms to continue teaching. The same happened with the research team since they should continue under the circumstances and carry out a holistic projective research to design the platform E-GLOO model. Therefore, the research team decided to follow a holistic projective study in which the platform E-GLOO only will be design as guideline to be created by future researchers and make it functional incorporating all the tools and elements that researchers considered important to be added in the E-GLOO platform.

Initially, this platform will be exclusive for English Language Department of the Western Multidisciplinary Campus of the University of El Salvador, but it can be adapted to contain all the Departments of the university. For now, the platform's design incorporates all the necessary tools that help teacher's development class and students' learning process at Foreign Language inasmuch as the current virtual platforms are elaborated for users in general not specifically towards a specific subject or theme. Further, this proposal was due to the inconveniences and difficulties that teacher and students faced when use virtual tools.

Since this research work was carried out during a global crisis, the research team faced a set of limitations owing the inconveniences of the covid-19 pandemic.

- The researchers experienced various health and psychological problems during this pandemic. They lost relatives due to health problems as well as the Covid-19 pandemic. Also, some of the researchers fell ill from Covid-19.

- The covid-19 pandemic caused people to be quarantined at home, making it difficult for investigators to meet and work in person.
- The covid-19 pandemic caused the economy to collapse radically, which caused the researchers not to be able to buy a hosting and programs for the creation and functionality of the E-GLOO platform.
- Due to financial problems, the researchers used a free server to run some of the functional elements of the virtual platform online.

#### **CHAPTER II: STATE OF ART**

According to Mofareh, (2019), "The use of modern technology in teaching English is broadly understood to encompass an innovative application of methods, tools, materials, devices, systems, and strategies which are directly relevant to English language teaching and lead to the achievement of the desired goals" (Pag 169). Considering English Grammar, I as part of the 21st century, teachers adapt to the new digital alternatives to develop online quizzes, tests, and online classes, and upload class materials to transmit English Grammar knowledge. It is just logical to want to use tools with which students are accustomed to using, even using the same social networks to teach classes when they cannot access educational platforms.

As Mendoza, (2019), stablishes in English Grammar I students discuss, analyze, and apply different structures in written exercises. To develop all the contents, the students receive handouts containing texts in which the grammatical structures are used, or they are asked to search for information related to the contents being studied. When this subject is applied in a digital way by using virtual platform, the methodology or activities that the teacher uses change to Blended Learning Activities (BLA) where the teacher combines the advantages of face-to-face and e-learning to satisfy students individual differences.

Since the first computerized system of educational assistance teachers try to find different teaching alternatives by using many systems such as forums, social networks and platforms, specifically aimed at the dissemination of educational information among teachers and students, whether they belong to a physical or virtual institution. It should be emphasized that as virtual educational tools have evolved over time, English Grammar teaching methodologies have also evolved. If the methodologies used to teach the English language in a classroom are complex, how much more would they be in a virtual area? For this reason, many platforms had to be adapted or centralized to the teaching of English to meet the specific needs of their teaching. However, several drawbacks can arise when using a virtual platform, even when this platform was specifically designed for teaching English, ranging from knowing how to operate the platform or creating activities for the development of students' skills in the English language.

#### 2.1 CONCEPTS

# 2.1.1 E-GLOO platform

The E-GLOO platform is a new VLE created by students of Licenciatura en Idioma Inglés Opción Enseñanza with the purpose of helping teachers and students of the English Language Department. The acronym E-GLOO stands for "Educational Gate Learning Online Oriented".

# 2.1.2 English Grammar

"It is the first of the three intensive English grammar courses in which second-year students of Licenciatura and Profesorado are exposed to the study of grammar in both prescriptive and descriptive manners" (Mendoza, 2019).

# 2.1.3 English Grammar Group I

It is the 60 group students who are taking the subject of the English Grammar, which is taught by M.A. Edgar Amílcar Pérez.

#### 2.1.4 ITCs

"Information and communications technology (ICT) refers to all the technology used to handle telecommunications, broadcast media, intelligent building management systems, audiovisual processing and transmission systems, and network-based control and monitoring functions" (Information and Communications Technology (ICT), 2019).

#### 2.1.5 VLEs

"Stands for "Virtual Learning Environment." A VLE is a virtual classroom that allows teachers and students to communicate with each other online. Class information, learning materials, and assignments are typically provided via the Web" (VLE, 2008).

#### 2.1.6 Virtual Platform

"A Virtual Platform is a software-based system that can fully mirror the functionality of a target System-on-Chip or board. These virtual platforms combine high-speed processor simulators and high-level, fully functional models of the hardware building blocks, to provide an abstract, executable representation of the hardware to software developers and to system architects" (Virtual Platform Technology, n.d.).

# 2.1.7 Virtual Environment

"Virtual environment – VE is usually described as a form of interaction between human and computer which consists of computer generated audio and visual simulation of three-dimensional (3D) space, in which users have interactive experiences" (Korićanin, Saračević, Biševac, & Kamberović, 2014).

Moreover, Korićanin, Saračević, Biševac, & Kamberović (2014) acknowledge that virtual environment offers the possibility of practicing the task in the virtual world in a way in which that skills can be transferred to the real world (pag.51).

#### 2.1.8 Cutting-edge technological tools

"Cutting-edge technology refers to current and fully developed technology features, unlike bleeding-edge technology, which is so new that it poses unreliability risks to users" (Anonymous, 2019).

In other words, cutting-edge technological tools are those common ones that are very useful in a virtual platform. For example, the Office is necessary because the teacher or student can write any document without going out of the platform. Another one is member, which shows the teacher who are involved in the class/course, etc.

# 2.1.9 Content Development

"Content development is researching, producing, and publishing information to meet a strategic goal. That goal will be to build a connection with an audience" (Johnson, 2017).

#### 2.1.10 LMS

"A Learning Management System is a software-based platform that facilitates the management, delivery, and measurement of an organization's corporate e-learning programs" (Powell, n.d.).

### 2.2 Brief history of education through virtual environment

Today, online education is not considered a different way of learning and teaching, but rather a means where students and teachers interact in common to form knowledge in all aspects of the sciences. Even technologies like blackboard and book were viewed as radical tools when they were first introduced (Atabek, 2019). The world is in constantly changes for that reason knowledge never stops; education evolve to adapt to new eras where most of information is transmitting by complex technological devices but easy to manipulate by users.

Right after archaic educational tools or ancient technology, humans invented a new way to transmit, save and search information by creating a sophisticated technological tool know as Computer. As Jaimovich, (2019), aimed that the Z1 is the world's first programmable mechanical computer which was designed by a German engineer named Konrad Zuse between 1935 and 1936, and was completed in 1938. This computer was capable of performing four mathematical operations, which at the time was the boom of the moment. It took just over 20 years for this instrument to be used for educational purposes outside its scope of study, giving birth to the first learning management system (LMS) in history.

According to LLaca, (2018), in 1959 a physicist from the Illinois University named Chalmers W. Sherwin suggested to the College of Engineering Dean William Everett the idea of using a computerized system for educational assistance; this LMS would be called PLATO. So, the first LMS was born before the internet, including elements such as chats, forums, or emails.

Starting from the first LMS to today, virtual education has played an important role in the development not only of distance learning but also in-person, using different teaching methods including b-learning. In the words of Martínez, Novoa, & Segura, (2013) "technology has been a very important role in education, many techniques have been developed to support learning process" (Pag. 4). Now, the students and teachers are accustomed to work on educational virtual platform such as Edmodo, Schoology, Moodle, Google Classroom, etc. Those platforms are the most common and complete LMS that allow instructors to monitor students' work and encourage isolated active participation. They also help teachers to assess students' behavior and experience in the learning environment.

Besides, in the words of Dr. Specht, (n.d.) "The students of the future will demand the learning support that is appropriate for their situation or context. Nothing more, nothing less. And they want it at the moment the need arises. Not sooner, not later. Mobile devices will be a key technology to providing that learning support" (Science Daily, 2009). Education through virtual learning environments is as important as what is received within the classroom. Both in the past and today there have always been many factors that intervene or hinder teaching and learning. For this reason, the human being had to invent the necessary tools according to every single decade to make education available to everyone or to the majority.

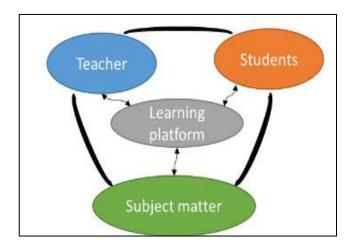
In other words, "the transformation of new technologies within schools has changed educational methods to such an extent that spaces are opened for digital culture in classrooms" (Tecnología en la educación: recursos innovadores para mejorar la calidad educativa, 2019). Nowadays, students and teachers use many technological tools in class not only virtual platforms but also LCD projectors, speakers, and computers. In this way, the teacher can combine the old resources like whiteboard, books, and lesson with the new ones. "The typical view among educators is that technology can be used effectively to supplement instruction by providing instructional variety, by helping to make abstract concepts concrete, and by stimulating interest among students". In the classroom, it is hard when there are a lot of students because some of them do not ask questions or not participate so that the use of technology help the teacher to see the progress of the students in the class and at home.

Finally, "many students of the millennial generation are exposed to more information and communication technologies than their educators. While some evidence suggests that students are able to adapt more quickly to changes in technology than educators themselves" (Gopalan, 2016). That is why changes in education will continue to occur in the way of adapting both in student learning and in the management of changes by the teacher.

#### 2.3 The benefits of incorporate virtual platforms at higher education

According to Medina, Cacheiro, Dominguez, & Medina, (2018) the use of learning platform encourages the interaction of all components of a traditional didactic scenario: teacher, students, and subject matter. It is well known that in classroom is common the large classes, which provoke that some students do not participate in class. With the help of the virtual

platforms, it gives the opportunity to the teacher to develop some activities that students do in the platforms so that the students practice what they discuss in class. Moreover, the use of the platforms does not interfere in the teacher-teacher relationship, or in the development of the class since this tool is a reinforcement to see the student's progress through activities online. Besides, virtual platforms provide computer tools that enable teachers to manage content, communicate, collaborate, and monitor and evaluate the students' learning process in online courses.



Source: The learning platform in distance higher education: student's perceptions

In a recent study by HOW LEARNING PLATFORMS SUPPORT THE BUSINESS OF TEACHING AND LEARNING, (2011) admits that Learning platforms promise to help schools realize time-saving benefits for teachers and administration staff, improve communication within the school and the local community, and improve student engagement and attainment. Although there are teachers who do not know how to use virtual platforms, for others these tools are very useful, since they can save time to notify students about new topics or activities before in-class. In the words of Cebrián-de-la-Serna, (1997) The great challenge of technological innovation is a change in the mentality of professors and their teaching practice; as well as in their permanent training according to the demands of the market (Pag 2). Teachers must be updating in learning innovations, in this way, students are not turned into a monotonous and old learning.

Moreover, the advantages of using virtual platforms are for both teachers and students. Teachers can adapt and edit any material for students, and in the case of students, they can have the opportunity to practice the activities from anywhere, even entering the platform without

belonging to the course. (Bakeer, 2018). In other words, teachers can improvise with digital educational systems because they can create activities both to do in class and to do online as reinforcement for the student after each class.

Besides, the most important communication features of the platforms include forums, chat, and web conference.

- ✓ Forums. Virtual scenarios for comments, reflections between teachers and students in asynchronous mode.
- ✓ Chat. Written speech involving a group of students and teachers in synchronous mode.
- ✓ Web conference. Synthesizes the keys of the oral discourse, supported on transparencies, pictures, video tutorials, etc., expanded with questions, and comments from teacher and students (HOW LEARNING PLATFORMS SUPPORT THE BUSINESS OF TEACHING AND LEARNING, 2011)

The characteristics mentioned previously are some of the aspects that some of the platforms offer to teachers and students. However, even though the teacher and the student can use the chat, the conversations are not personal since the other students can see the messages. This implies that the student feels uncomfortable when asking about some concerns related to the topic development.

Moreover, "web-conferencing systems. Web-conferencing is a system that performs live meetings between participants from different locations over the Internet and in that way expand communication, sharing of knowledge and experience" (Effective E-learning Course With Web Conferencing, 2014). Videoconferences are very helpful when developing any activity from a platform. In this way, students ask their concerns, doubts, or even share their ideas with the rest of the class. However, some platforms although they offer conferences, the students and the teacher can only write, as in a chat, since they cannot make a videoconference. Further, not all platforms provide the same tools. Below is a comparative table of the characteristics of the most widely used platforms.

**Table 1: VIRTUAL PLATFORMS COMPARATIVE BOX** 

							COMPAR	ATIVE 1	вох						
Virtual Platforms	Chat						Materials	Record		Reports		Design evaluations using			
	Teacher- student	Group chat	Video conference	Notifications	Course	Grade	Upload/ download documents	Video	Audio	Activities	Evaluation	videos, audios, items, and images in the same activity	E- library	Calendar	Survey
Schoology		*		*	*	*	*			*	*			*	
Edmodo	*			*	*	*	*			*	*			*	
Google				*	*		*			*	*			*	
Classroom															
Moodle	*		*	*	*	*	*			*	*			*	*
UESOcc	*	*		*	*	*	*			*	*			*	
Platform															

Source: Researchers own creation

#### 2.4 The E-GLOO platform design

The acronym E-GLOO stands for "Educational Gate Learning Online Oriented". The E-GLOO platform is a new VLE created by students of Licenciatura en Idioma Inglés Opción Enseñanza with the purpose of helping teachers and students of the English Language Department. Moreover, the purpose of designing the platform E-GLOO will take into account the positive characteristics that platforms like Edmodo, Schoology and Google Classroom provide, making improvements and applying them in a friendly and intuitive new interface, as well as, including new tools in order to cover teacher and students' needs and interests. In the words of Rosell, (n.d.) Virtual Classrooms work by providing a cloud-based space for students and tutors to communicate within. They usually include communication tools such as video chat, audio chat and instant messaging tools. Virtual Classrooms also provide a home for learning resources and training exercises. This is what the platform E-GLOO will achieve incorporating all the necessary tools that teacher and students need to develop the lessons plans.

Besides, since the platform E-GLOO will be a new educational site, at the beginning, it will be only implemented with the English Grammar Group I teacher and students at the English Language Department of the Western Multidisciplinary Campus of the University of El Salvador. Then, this platform can be used by all teachers and students of the English Language Department. Likewise, future researchers will be able to make improvements to the platform to benefit the teacher and students at English Language Department.

The implementation or creation of a new virtual platform consider many options the other platforms do not have to cover that teacher or students need, for example, the platform Schoology, it was started in 2009 by three undergraduates at Washington University in St. Louis. Initially, it was used as a note sharing platform for students. Later Schoology pivoted, focusing instead on developing a learning management system allowing teachers to communicate and share information with students, post and grade assignments, and build folders of resources and assessments for students to use (Schoology, n.d.). In the same way, the idea of the design of the E-GLOO platform was born since the teacher and the students of the English Language Department need new resources for the development of the activities using blended learning activities to improve students' English language skills in grammar.

Another example is Google Classroom, it allows teachers to create classes, post assignments, organize folders, and view work in real-time (Catapano, 2019). This platform gives the opportunity to any teachers to share information with their students, as well as the students can share information with everybody. The platform E-GLOO will provide the same experience, however, it will be limited because only the teacher and students of English Language Department will be able to use it. It helps to avoid connection problems or problems with log in.

When the student is learning a new language such as English, he will find it difficult to transmit his ideas grammatically via writing. As the in-person and ICTs activities are very helpful so that the teacher can measure student progress both in class and online.

Many researchers and educators have tried to change the way Grammar is taught. According to QINDAH, (2018), one of the studies made by Sucaromana, (2013), in Thai EFL undergraduate students between 19 and 21 years old, revealed a positive effect on students' motivation to learn. He indicated that Students who studied in a mixed learning environment get better results than students who studied in a face-to-face learning environment.

The mixed method of synchrony, asynchrony and in-person activities help students stay active and at the same time entertained with the different activities that are offered either in person or in using a virtual tool. The sudden change of educational instruments does not make the class monotonous and makes it unpredictable for student.

Besides, through by using VLE, "the student-centered learning approaches also believe in providing students with self-paced online learning opportunities along with traditional face-to-face classroom in enhancing students' learning performance in the English language. This blended learning proposes innovative ideas and educational practices and alters the roles to be played by the teacher as well as students (Krasnova & Ananjev, 2015)" (Ismael Challob, Abu Bakar, & Latif, 2016). To do this, English Grammar teacher must find an adequate virtual platform where he can adapt his methodologies, such platform must be intuitive, with a friendly interface and have most of the following characteristics.

Table 2: SIX ESSENTIAL CHARACTERISTICS OF AN E-LEARNING PLATFORM

WHAT CHARACTERISTICS SHOULD AN IDEAL E-LEARNING PLATFORM HAVE?						
Integration	The e-learning platforms should have a development that includes all the solutions in the same educational environment for a successful learning experience: student management for all types of learning, enrollment, forums, student communities, virtual classrooms with publication of schedules, reservation of classes, content libraries, tools to personalize and create own contents.					
Tracking and reports	The registration and tracking of a student's progress are essential to correct the shortcomings that students present immediately. The e-learning platforms must register all kinds of information to present it in exhaustive reports that would otherwise cost many hours of effort to the teaching staff.					
Automated evaluation	If we talk about saving time for teachers, the automatic evaluation is the star in virtual e-learning campuses. These fulfill two fundamental functions: the automation of the correction and the recording of the data. The automatic correction allows to evaluate a test in real time, providing teachers and students results instantly. In addition, the software marks the correct and incorrect answers, so that students have all the information they need to analyze their mistakes and learn from them.					
Content in the cloud	Having the content in the cloud under a collaborative work system, allows the contents to always stay updated and available to students, without having to stop the teaching cycle. Teachers can create and update content and publish it in an agile way.					
Gamification	Gamification, or the appraisal of learning, adds new ways to maintain the interest and motivation of students throughout the course. In the e-learning courses, gamification can be considered in different ways, but it tends to include rewards for meeting objectives and medals or scores that are taken into account for the student's effort. The Gamification also includes classification tables for the student to see their progress and compare it with the rest of the group. In this way, you get an extra motivation that translates into an extra effort to overcome yourself and your peers and not get off the hook.					
Virtual Classroom	Flexibility in teaching is one of the characteristics most appreciated by students who choose to learn online. In addition, it is a way to save costs and offer the added value provided by the interactive and multimedia materials of digital courses. Learning through virtual classrooms offers greater flexibility and reach.  CAE's virtual classrooms, with a built-in whiteboard, not only allow communication between teachers and students and give on-site classes without students having to go to the center. In addition, the platform is responsible for recording student attendance and teacher evaluations to add to their reports and their gamification statistics.					

Resource: Barquero, n.d.

Even though all the characteristics mentioned above sounds relevant, the platform E-GLOO will omit some of them for the Alpha version since some characteristics are not needed for the teacher and students of the English Language Department.

#### CHAPTER III: METHODOLOGICAL DESIGN

The covid-19 pandemic has hit the world greatly, causing many changes for people in their daily lives. It came to change everything that people once thought was impossible to stop or change such as factories, businesses, churches, and schools and universities. Moreover, the problem of the quarantine and the economy due to the covid-19 pandemic forced the research team to redirect their original idea of creating and designing the platform E-GLOO for English Grammar I teacher and students to designing the version Alpha of the platform.

At first, the researchers had planned to work an action research to design the platform E-GLOO where the English Grammar Group I teacher and students can develop activities, but due to the events, the researcher team changed their focus to a holistic projective research. Where the Alpha version will only show the elements that the E-GLOO platform must have to incorporate all need of English Grammar students and teacher. This means that the researchers will show how the platform E-GLOO would look with all the elements of integration, tracking reports, automated evaluations, content in cloud, gamification, and virtual classrooms. This E-GLOO platform Alpha version will describe a development status that means the first complete version of platform, which probably will be unstable, but will be useful to show what the product will do.

English Grammar teacher will only be able to see all the tools, documents share by researchers, and games created by researchers until the future researchers take the idea of the platform and make it functional in all aspects.

Moreover, in this new approach using the holistic projective research, the research team will work alone with the teacher, and the tools will not only be addressed to the teacher, but also to the researchers themselves. Therefore, in this section, the research team will describe all the steps to follow in order to conduct the holistic project. It will explain the type of tools and techniques that researchers will use during the whole process of the holistic projective research in order to enhance technological development with the proposal to design the E-GLOO platform for English Grammar Group I teacher and students at the English Language Department.

### 3.1 Paradigm and Design

To carry out the study for the proposal to design the platform E-GLOO for English Grammar teacher content development and student learning at the English Language Department of the Western Multidisciplinary Campus of the University of El Salvador-2020, the research team will use the qualitative paradigm to gather suitable data. This method will allow the researchers to analyze and reflect the benefits of the Alpha version of the E-GLOO platform.

Furthermore, the research team will conduct a holistic projective research in order to enhance technological development with the proposal to design the E-GLOO platform for English Grammar teacher content development and student learning. They will do a holistic projective research because this study seeks to give a solution for a problematic situation, in this case, the inconveniences using some virtual platforms. Likewise, this project will benefit English Grammar Group I teacher and students of Licenciatura en Idioma Inglés Opción Enseñanza.

### 3.2 Description of the Environment

The research team will conduct this holistic project at the English Language Department of the Western Multidisciplinary Campus of the University of El Salvador. The population involved in this study are second year students. Moreover, the only inclusion is that research team will not work directly with the students; the researchers will only have communication with the English Grammar teacher.

#### 3.3 Units of observation

At the beginning of this study, the research team talked to the English Grammar I Group I teacher, who showed willingness with the project, about the steps to follow in the holistic projective research study in order to work along with English Grammar I Group I teacher and students, but due the inconveniences for the Covid-19 pandemic, the researchers decided to work only with the English Grammar I Group I teacher. Besides, the researchers decided to design the platform E-GLOO considering the aspects of secure/reliable place to share information, cutting-edge technological tools to change the traditional relationships between teacher-student into a modern one, and students' knowledge to practice English Grammar.

# **3.4 Sampling Procedure**

No sampling procedure will be need in this project as the researchers proposed the idea of the new platform to their advisor, and he was delighted to get involved that he proposed to work with his group of English Grammar at the English Language Department of the Western Multidisciplinary Campus of the University of El Salvador

# 3.5 Operationalization of the Variables

General Objective	Specific Objective	Hypothesis	Variables	Definition of the Variables	Indicators	Instruments	Time
<ul> <li>❖ To         upgrade         English         Grammar         teacher         content         developm         ent and         student         learning at         English</li> </ul>	To lead English Grammar Group I teacher and students to a secure and reliable space/place where they can share	of the E- GLOO platform will ease English Grammar I Group I teacher knowledge sharing and students	Independent Variables  English Grammar I group I teacher knowledge sharing	It is a learning activity with which teachers not only professionalize themselves, but contribute to the professional development of their students as well	<ul> <li>Motivation</li> <li>Professionalism</li> <li>Students' performance</li> <li>Resources</li> <li>Support the students incorporating technological tools</li> <li>Millennial' learning process interactive</li> </ul>	<ul> <li>Semi- structured Interview</li> <li>Questionna ire (open questions)</li> </ul>	30 minutes  30 minutes
Language Departme nt of the Western Multidisci	significant subject informatio n each other	learning via VLE in the English Language Department	Students learning via VLE	It refers to a set of teaching and learning tools	- Millennials' learning process using technological tools	- Questionna ire (open questions)	1 hour

plinary		of the		designed to	- Students'		
Campus		Western		enhance a	enhance		
of the		Multidiscipli		student's	using informatics		
University		nary		learning	skills using		
of El		Campus of		experience by	the computer		
Salvador-		the		including	- Students'		
2020		University		computers and	experienced		
2020		of El		the Internet in	developing activities		
		Salvador-			using the		
				the learning	four English		
		2020.		process	Language		
					skills		
			Dependent				
	<b>*</b> То		Variable	It is a VLE	- The	- Discussion	2 hours
	integrate			created by students of	development of the four	group (researchers	
	cutting-		A proposal to	Licenciatura en	English	(researchers	
	edge		design the	Idioma Inglés	Language		5 hours
	technologic		platform E-	Opción	skills		
	al tools that		GLOO	Enseñanza with	_	- Observation	
	change the		GLOO	the purpose of		al guide	
	C			helping teachers	- Organization	(researchers	2 1
	traditional			and students of		)	2 hours
	teacher-			the English	- Cutting-edge		
	student						
				Language Department. The	technologica 1 tools		

relationshi	acronym E-	- Secure and	- Discussion	
p into a	GLOO stands	reliable	group	
modern,	for "Educational Gate Learning	space/place to share	(researchers	
efficient,	Online Learning	information	)	
friendly	Oriented".			
and				
functional				
one				

#### 3.6 Research Techniques

To achieve the objectives and to answer the research questions, the researchers will use a variety of instruments to gather suitable data. The research instruments will be one semi-structured interview, two questionnaires (open questions), two discussion groups, and one observational guide addressed to English Grammar Group I teacher and student at the English Language Department of the Western Multidisciplinary Campus of the University of El Salvador. Moreover, some tools will be addressed to the research team.

Further, the research team will use the instruments in the following order: firstly, the researchers will apply a semi-structured interview (Appendix A) to the English Grammar teacher. In the interview, English Grammar teacher will answer some questions related to his experience using virtual platform. Second, the research team will use a questionnaire (Appendix B) to get data about students' inconveniences using virtual platforms.

Third, the researchers will use a discussion group (Appendix C) to agree on how to proceed with the design of the platform E-GLOO taking into account the indicators: Secure and reliable space/place to share information, Cutting-edge technological tools, Friendly interface, and the development of the four English Language skills. Fifth, the research team will use an observational guide (Appendix D) to observe all the elements that the virtual platforms such as Schoology, Edmodo, UESOcc platform, and Google Classroom have or not have each other in common.

Finally, the instruments will help the researchers gather suitable data to design the platform E-GLOO for the English Grammar Group I teacher and students.

### 3.7 Approaching the Field of Study

The research team will have a meeting with the teacher of English Grammar about the inconveniences he faces using the platforms Schoology, Edmodo, UESOcc platform, and Google Classroom. The information will help the researchers with the proposal to design the E-GLOO platform. Moreover, the researchers will ask the teacher to pass a questionnaire addressed to his students for asking them about their inconveniences using virtual platforms.

### 3.8 Data Processing

To analyze the qualitative data, the research team will categorize and decode the data from interview, questionnaire, discussion group, and observational guide. Besides, the data will be decoded through tables using the Microsoft word 2016.

Finally, the researchers will interpret the gather data to very if the hypothesis of change will be proved or not.

### 3.9 Validation and Reliability of data collection instruments

As soon as all instruments will be designed, the researchers will validate them before data collection takes place. Therefore, the research team will use a descriptive and interpretative validity to interpret the data. Moreover, the researchers will use the baseline to describe the inconveniences that English Grammar Group I teacher and students face using virtual platforms before any intervention and then what the teacher perceive with the proposal to design the E-GLOO platform. Besides, the researchers will use content validity and consistency method of reliability to improve the tools.

# 3.10 Plan of Action

3.10.1 Wee	3.10.1 Week 1									
Purpose	Action	Material	Research instruments	Responsible	Timeline	Comments				
To gather	Activity 1:	- Cell phone		- Research	3° week of	The teacher is				
information about	"Semi-structured		- Semi- structured	team	February	very interesting in				
the experiences,	interview"		interview			the design of the				
benefits and	The researchers will ask open				3:00pm- 3:30pm	E-GLOO platform				
inconveniences	questions to the English					because he				
of English	Grammar teacher related to					considers that an				
Grammar Group	his experiences and					exclusive				
I teacher and	inconveniences using virtual					platform for the				
students using	platforms.					English Language				

virtual platforms	Activity 2:	- Computer				Department will			
in class	"Questionnaire"	- Internet			3° week of	help to avoid			
	The research team will show	- Gmail	- Questionnaire	- Research	February	some			
	the English Grammar teacher	- Smartphones		team	1 001001	inconveniences			
	a test to ask the students about	- Google			9:00am-	developing the			
	their experiences using virtual	forms			9:00pm	activities with the			
	platforms. This test will be					students.			
	past using Google Forms.								
Group'	The researchers' approach is he	elp the teacher and	the students in th	ne process on lea	rning incorpo	orating the E-GLOO			
reflection	platform, but in this case, the	researchers decide	e to show the ver	rsion Alpha of th	he E-GLOO 1	platform due to the			
	circumstances living with the pandemic called Covid-19. In this way, the future researchers will be able to design the								
	platform using the version Alp	ha as guideline.							

3.10.2 V	3.10.2 Week 2								
Purpose	Action	Material	Research instruments	Responsible	Timeline	Comments			
To discuss and gather information about the tools that Schoology, Edmodo, Google Classroom, and UESOcc platform have and not have in common to incorporate some of them to the E-	Activity 1:  "Discussion Group"  The research team will discuss the steps to follow to design a platform with all the necessary tools that English Grammar Group I teacher and students need. Later, the researchers will discuss the aspects with the advisor/teacher to ask for suggestions.	<ul> <li>Internet</li> <li>Computer</li> <li>Zoom meeting</li> </ul>	- Discussion group	- Research team	From March to May  9:00am- 2:30pm  1:00pm- 5:00pm  7:00pm- 11:45pm	Even though the proposal of the E-GLOO platform changes, the researchers have decided to incorporate in the version Alpha all the necessary tools that any virtual platform have, as well as incorporate new ones.			

GLOO	Activity 2:	_				
platform and	"Observational guide"	- Internet	- Observational	- Research	From March to	
improve others	The researchers will create a guide to compare each of the virtual platforms such as UESOcc platform, Schoology, Edmodo, and	<ul><li>Computer</li><li>Zoom meeting</li></ul>	guide	team	9:00am- 2:30pm 1:00pm- 5:00pm	
	Google Classroom in order to incorporate some cuttingedge tools and new ones to enhance the functionality of the design of the platform E-GLOO.				7:00pm- 11:45pm	
	After analyzing all the eleme	nts of each of the	e virtual platform Sc	choology, Edmoo	do, Google Cl	assroom, and UESOcc
Group'	platform, the researchers dec	ided to use some	e programs such as l	Balsamiq, Word	Press, Plugin,	, and others to develop
reflection	the version Alpha to show t	he teacher and	future researchers he	ow to create the	e E-GLOO pl	atform. Moreover, the
	version Alpha itself will have all the elements that any platform contains and new ones such as e-library, attendance					
	control, private communicati	on between teac	her-students, and oth	ners.		

3.10.3	Week 3					
Purpose	Action	Material	Research instruments	Responsible	Timeline	Comments
To design the Isologue which will represent the E-GLOO platform	Activity 1:  "Isologue Design"  An Isologue is the union of a graphic symbol and a text, but it cannot be used separately. So, researchers will combine the image of a typical igloo and the name of the virtual platform to create the isologue. Researchers will use Adobe Illustrator to create the base part of the isologue. Then, they will use Adobe	- Adobe Illustrator - Internet - Computer - Adobe Photoshop - Zoom meeting	- Discussion group - Observational guide	- Research team	From March to May  9:00am- 2:30pm  1:00pm- 5:00pm  7:00pm- 11:45pm	The isologue design is complicated because the isologue will be the representation of the whole project.  The research team not to give color to the isologue, it will be white and black.

	Photoshop to							
	perfectionate it.							
	The research team has decided to use some programs Adobe Illustrator, Adobe Photoshop to design the isologue because							
Group' reflection	those programs will fa	cilitate the incorporati	on of images to give	a good appeara	ance to the isolo	gue.		

3.10.4	Week 4					
Purpose	Action	Material	Research instruments	Responsible	Timeline	Comments
To design the E-GLOO platform incorporating the suggestion by the advisor, as well as, the cutting-edge tools of the virtual platforms and new tools	Activity 1:  "E-GLOO platform design"  Once the Isologue is finished, researchers will start with the platform design. To do this, researchers will use the program Balsamiq Wireframes.  "Balsamiq Wireframes is a rapid low-fidelity UI wireframing tool that reproduces the experience of sketching on a notepad or whiteboard, but using a computer.	- Balsamiq Mockup - Internet - Computer - Zoom meeting	<ul> <li>Discussion group</li> <li>Observational guide</li> </ul>	- Research team	From March to May 9:00am-2:30pm 1:00pm-5:00pm 7:00pm-11:45pm	The design of the E-GLOO platform took much time than expected since the first drafts of the Mockup did not meet the expectations of the researchers.  The researchers decided to be neutral using the colors black and gray for the design of each of the platform E-GLOO's pages.

It really forces you to focus		
on structure and content,		
avoiding lengthy		
discussions about colors		
and details that should		
come later in the process."		
(Balsamiq, 2020)		
Moreover, researchers		
will use the answers		
obtained from the semi-		
structured interview with		
the teacher and the online		
questionnaire used with		
the students in order to		
create the mockup. A		
mockup is a draft, a		
preview of design options,		
color schemes, layouts,		
typography, navigation		
images and the general		
environment of the		

	product. Moreover,								
	researchers will take into								
	consideration the positive								
	features that some								
	educational platforms such								
	as google classroom,								
	Edmodo, schoology and								
	UESOcc platform have.								
	In the guide to compare the to	In the guide to compare the tools offered by the virtual classrooms Edmodo, Google Classroom, Schoology, and							
Group' reflection	UESOcc platform, the researche	ers noted that	t teachers had to sear	ch for the tools to u	ise to develo	op activities or tests. The			
	researchers decided that in the E-GLOO platform's pages the teacher should have at hand all the tools that this p								
	would offer as well as the pages	for the stud	ents.						

3.10.5	Week 5					
Purpose	Action	Material	Research instruments	Responsible	Timeline	Comments
To create an	E-GLOO Online Quiz	- Internet	- Discussion	- Research	- From	The researchers
online quiz	Maker"	- Computer	group	team	April to	could not meet due to
maker	The E-GLOO platform	- Visual	- Observational		June	the problems that the
	will count with an online	Studio	Guide		9:00am-	country is facing
	quiz maker which	Code			2:30pm	with the Covid-19
	facilitate for both	- Xamp			1:00pm-	pandemic, therefore,
	teachers and students	- Github			5:00pm	they had problems
	teaching and learning				7:00pm-	coding the game
	process. Teachers at the				11:45pm	since this being an
	University of El Salvador					Alpha version
	can use these					presented problems
	questionnaires to					with the music. At
	strengthen the					the same time, with
	incorporation or training					the creation of the
	lessons.					online quiz maker,
	Teachers can use the E-					the researchers went
	GLOO quiz maker to					through problems to
	make lessons more					do all the encodings

interactive and engaging.		each on their own,
Moreover, these quizzes		and then join them
will count with		since they could not
automated evaluations		do them together.
which will serve to save		Moreover, the
teachers' time. The		problems of the game
automatic correction		and the online quiz
allows to evaluate tests in		maker were solved
real time, providing		from the source code.
teachers and students		In addition, some
results instantly. In		changes were made
addition, this software		so that they could
will mark the correct and		work. Also, two
incorrect answers, so that		types of sublime text
students have all the		editor 3 and visual
information they need to		studio code were
analyze their mistakes		used for encoding.
and learn from them.		
The research team will		
codify using the program		
Visual Studio Code. This		

	program is a text editor					
	for code, markup and					
	prose.					
	The research team will					
	use a local host created					
	with the program Xamp.					
	this will use to test the					
	quiz maker as an alpha					
	version. Once the Online					
	quiz maker reaches the					
	beta version, the research					
	team will use a virtual					
	server provided by					
	Github corporation to run					
	it online					
	Activity 2:	- Internet	- Discussion	Research	- From	
	"E-GLOO Platform	- Computer	group	team	April to	
To design the	Gamification Section"	-PowerPoint	- Observational		June	
E-GLOO	The E-GLOO platform	- Ispring	Guide		9:00am-	
platform	will have a Gamification				2:30pm	

Gamification	section where Microsoft	- Sublime			
Section	PowerPoint and Ispring	Text 3		1:00pm-	
	programs will be used for	- Github		5:00pm	
	games creation. Ispring				
	Suite is a PowerPoint-			7:00pm-	
	based authoring toolkit			11:45pm	
	produced by Ispring				
	Solutions that enables				
	users to create slide-				
	based courses, quizzes,				
	dialogue simulations,				
	screencasts, video				
	lectures, and other				
	interactive learning				
	materials.				
	Moreover, the research				
	team will modificate the				
	game code by using the				
	program Sublime Text 3.				
	This program is a text				

	editor for code, markup,					
	and prose.					
	Also, researchers will use					
	a virtual server provided					
	by Github corporation to					
	run the game online.					
Group'	Despite the adversities, the	research team w	vas able to generate al	the codes using	g the previousl	y mentioned programs,
reflection	which helped both the crea	tion of the onlin	e quiz maker and the	e design of the g	game to be suc	cessful and functional.

3.10.6	Week 6					
Purpose	Action	Material	Research instruments	Responsible	Timeline	Comments
To gather suggestions after introducing the version Alpha of the platform E-GLOO	Activity 2:  "Discussion group"  The researchers will discuss about the design of the final presentation of the version Alpha of the E-GLOO platform. Likewise, the researchers will discuss about the changes or suggestions that teacher proposes.	<ul><li>Internet</li><li>Computer</li><li>Zoom meeting</li></ul>	- Discussion group	- Research team	1° week of August 1:00pm- 500pm 10:00am- 5:00pm	The researchers found some flaws in the E-GLOO platform model, so they started making the modifications. Moreover, the research team took into consideration the suggestions of the English Grammar I teacher, so the last touches were made to the design.
Group' reflection	The research team, finished proceeded to the last present	•		platform model,	as well as the	incorporated elements

### 3.11 Ethical Aspects

At this point considering the situation experienced with the Covid-19 pandemic, the researchers will carry out the holistic projective research taking into account three ethical principles. One of them will be to avoid at all costs the plagiarism of information that will be taken for the development of the project. Researchers will not lose the objectivity of the project which is to design a platform that meets all the needs of English Grammar I teacher and students. Additionally, researchers will be open to criticism from the English Grammar teacher for making changes to the holistic project.

# 3.12 Timeline

Activity	Responsible				Month			
Tiouvily.	responsible	Feb	Mar	April	May	June	July	Aug
Research team	Research team							
formation	and Advisor							
Choosing the topic	Research team							
	P	relimina	ry Phase	e				
Approaching the	Research team							
Field of Study								
Validation of the	Advisor							
instruments for the								
diagnostic study								
Diagnostic Study	Research team and Advisor							
Definition of the	Research team							
Problem								
Revision of the	Advisor							
statement of the								
problem								
	Planning Phase							
Elaboration of State	Research team							
of Art								

			I			1
Incorporation of the	Research team					
Suggestion made by						
the Advisor						
F1.1 C.1	<b>D</b> 1.					
Elaboration of the	Research team					
research						
methodology						
Elaboration of Data	Research team					
Collection						
Instruments						
Validation of Data	Research team					
Collection	Research team					
Instruments						
Elaboration of the	Research team					
project proposal						
		Executio	n Phase			
Elaboration of the	Research team					
project proposal (the						
Alpha version of the						
E-GLOO platform)						
	Research team					
Data Collection						
procedure						

Analysis and interpretation of data	Research team				
Conclusion and Recommendations	Research team				
Revision: Final Report	Advisor				
Final Oral Presentation	Research team				

# 3.13 Budget

Due to the pandemic COVID-19, researchers have divided the budget into two sections: the first before the pandemic and the second during the pandemic.

First Section: from February 19 to March 10

## **Supplies**

Type of supply	Name	Cost per item	Number of items	Total
	Pens	\$ 0.25	4	\$ 1.00
Office Supplies	Pencils	\$ 0.20	4	\$ 0.80
	Print	\$ 0.08 per sheet	36	\$ 2.88
	Folders	\$ 0.35	3	\$ 1.05
	Fastener	\$ 0.15	3	\$ 0.45
Total			\$	6.18

### **Services**

Service	Cost	Total
Other expenses (food, transportation)	\$ 145.00 X half month	\$ 145.00
Total		\$ 145.00

# **Second Section: From March 13 to August 19**

# Services

Service	Cost	Total
Electricity	\$ 45 a month X 6 months	\$ 270
Internet	\$ 60 a month X 6 months	\$ 360
Total	\$ 630	0.00

## **Human resources**

Service	Cost	Total
Assistant (Engineer)	\$ 25.00 one month	\$ 25.00
Total	\$ 25.00	

**Total budget expenses: \$ 806.18** 

#### CHAPTER IV: PROJECT PROPOSAL

### 4.1 Project Proposal

The original proposal of the project was to design and create the E-GLOO platform applying essential characteristics of an E-learning platform must have and diverse elements that English Grammar I Group I teacher and students need, incorporating gamification section where students can put into practice their knowledge about certain topic and receive rewards for meeting objectives and medals or scores that, if the teacher wants, can be taken into account for the student's effort. Notwithstanding, the current situation experienced with the covid-19 pandemic caused the project to take an unexpected turn where researchers were unable to obtain all the resources necessary for research and development of the project as a consequence, the researchers had to adapt themselves modifying the project. Therefore, the researchers modified the original proposal of the project with the only change not create the platform but showing and leaving a guide of all the elements and functions that the platform would offer so that it can be created by future researchers to help not only English Grammar I Group I teacher and students, but also the whole English Language Department teachers and students.

Now with the modifications, the platform E-GLOO proposal design for English Grammar I Group I teacher and students at the English Language Department of the Western Multidisciplinary Campus of the University of El Salvador will be a visual representation about what The E-GLOO platform could become. Thanks to this proposal design, English Grammar future researchers will be able to develop a friendly interface where teaching and learning virtual methods will be develop considering the teacher and students' knowledge and management on virtual platforms.

Despite the many obstacles presented in the development of this project, the design of the proposed E-GLOO platform will offer users a simple but friendly graphical interface, easy to use and at the same time intuitive, with certain similarities with the famous current Social networks. In addition, it will offer a library with journal articles, academic documents and books in accordance with each of the subjects registered in the platform's database, but for the moment, these documents will be on the specific topic for which the proposal was designed English Grammar I.

As mentioned above, some essential features that a learning platform should have will be added, such as monitoring and reporting, automated assessment of assignments and quizzes, cloud storage, Gamification and the most important feature of all, user convenience in manipulation of the tools that the page presents.

### 4.2 Justification of the project

The English Grammar I Group I teacher and students at the English Language Department of the Western Multidisciplinary Campus of the University of El Salvador have some inconveniences and limitations when using the common virtual platforms such as Schoology, Edmodo, Google Classroom, Moodle, and UESOcc platform. The platforms must be simple to use, that is, the user does not need any technical knowledge to use the platform tools. Since these platforms are not created for a specific subject, they do not allow an appropriate English Grammar teacher's methodology perform and students learning omitting, at least, one or two English Language macro-skills (listening, speaking, reading, and writing) which are actually necessary to teach a new language.

Therefore, the E-GLOO platform proposal design will be a beneficial for both teacher and students because it will contain all the necessary tools, they need to develop activities or classes. Moreover, with the E-GLOO platform proposal design, the teacher and students will not have many problems with the server connection because the platform will be exclusive for English Language Department what will establish amount of students and teachers in the platform; in that way, the platform will avoid server down by resource overloads, shared hosting, or security flaws.

### 4.3 Limitations of the Project

Most of the limitations for the development of this project were caused by crises that the entire world is facing right now. The world was not prepared to face or cope with the Covid-19 pandemic, as people have had to change their lifestyle and adapt themselves to the circumstances and live with them. Likewise, the researchers had to make their changes with the original project proposal. The E-GLOO platform will not be created just designed to serve as a guide so that it can be created later due to the following points.

- The covid-19 pandemic causes people to be quarantined at home, making it difficult for investigators to meet and work in person.
- The covid-19 pandemic caused the economy to collapse radically, which caused the researchers not to be able to buy a hosting and programs for the creation and functionality of the E-GLOO platform.
- Not having enough funds to buy everything required, the research team considered creating the platform in a local server, thus finding a new limitation. It would be necessary a high-speed computer and storage capacities to host the page on it. In addition, a stable and high-speed Internet connection would be required for optimal operation; without adding that the computer or in this case, "server" would have to be permanently switched on and connected to the network.
- Originally, the idea was that the English Grammar I Group I teacher and students had
  access to this platform, and in this way the alpha and beta versions could be tested, but
  due Covid-19 pandemic, the proposal will be reflected purely as a presentation of the
  platform E-GLOO design itself.

### 4.4 Purpose and Goals of the Project

The foremost aim of this project is to help the English Grammar Group I teacher content development and students learning at English Language Department through an adaptable software focus on English teaching and learning. Moreover, this E-GLOO platform proposal design will show all the necessary tools that can pull up the teacher designing activities or exams incorporating the four English Language skills, as well as, he will have the control of the attendance and activities develop by the students. Besides, the students will improve their English Grammar skills not only in class but also at home using this platform to continue with their habits using technological tools.

### 4.5 Contents of the Project

The E-GLOO platform proposal design will contain the following pages E-GLOO's register, teacher and students sign up, course creation, homepage, course removal, new course

addition, chat box, E-GLOO's games or EdGames page, briefcase page, and my library. Those pages will help the teacher and students interact each other and develop activities. Moreover, the platform will offer the teacher some documents with example of activities that the teacher can adequate to the students' need, and some games where the students can practice their knowledge about English Grammar.

### 4.6 Activities to develop

In the Alpha version of the E-GLOO platform, the tools such as chat box not only will wait on to chat between teacher-students, but also the teacher can use the box chat to select the students and goes to the attendance and grade of his students. Moreover, the tool home will contain many elements, which will allow the teacher and students to upload videos, images, audios, and files. The teacher will be able to design activities and exams with audios, items, videos, and images, so the students can work their four English Language skills. In the case of the page "my library", it will help the teacher to have his own organization file to have all the documents and activities without the necessary to go out of the platform to look for the files. In that way, the teacher will have the opportunity to have all the files of each course such as lesson plans, exams, activities, quizzes, and others. Those tools will be useful for teachers and students because the platform E-GLOO will have all the necessary resources they need.

Furthermore, the E-GLOO platform proposal design will contain some games designed by the researchers related to English Grammar that will be an example of how the teacher can incorporate games in this platform so the students can practice their abilities. Likewise, the research team will share some documents with examples of games to incorporate in any class or subject in this platform so the teacher can put into practice in his classes.

### 4.7 Place

This project will be developed by the research team at home due to the pandemic COVID-19. Moreover, due to the conditions and limitations for the pandemic the presentation of the holistic projective project will take place using the platform Google Meet.

## 4.8 Budget

To design the Alpha version of the platform E-GLOO described in this project, the following resources are required such as an engineer and programs Xamps, Elementor Illustrator, PowerPoint, Balsamiq, and WordPress.

### Services

Service	Cost	Total
Internet	\$ 60 a month X 6 months	\$ 360
Electricity	\$ 45 a month X 6 months	\$ 270
Total		\$ 630

### **Human resources**

Service	Cost	Total
Assistant (Engineer)	\$ 25 one month	\$ 25
Total		\$ 25

**Total budget expenses: \$ 655** 

#### CHAPTER V: ANALYSIS AND INTERPRETATION OF DATA

The creation of virtual classrooms has had a great impact on teaching and learning methods at different educational levels. They have potentially been incorporated into higher education in recent years, and even more so in this moment of crisis in which world has fallen due to the Covid-19 pandemic. Due to the current situation of the global financial and economic crisis in health, the researchers had to redirect their study focus. The researchers, being forced to suspend the creation and implementation of the E-GLOO virtual platform, decided to develop a platform design (model) which will only serve as a guide of what elements it should have and how it should work. This E-GLOO platform design was made taking into account the imminent need to train teachers and students in pedagogical, didactic, cultural and social use of ICTs, and not only in the instrumental and technical use they can provide, in turn, showing a warm and friendly UI (user interface) to facilitate its use.

At the University of El Salvador, teachers from the different majors use virtual classrooms for students to do activities or receive information from the class studied. For example, the English grammar teacher uses some virtual platforms such as Schoology, Edmodo, or Google Classroom to develop quizzes, exams, or document sharing. However, the English Grammar I teacher goes through some drawbacks using these tools, as well as English Grammar I students go through certain problems when working in virtual classrooms. The common virtual platforms do not offer the students and teachers the necessary tools for incorporating the Four English Language skills. Thus, the research team decided to carry out the holistic projective research study to design the platform E-GLOO under the qualitative paradigm with the general objective: "To upgrade English Grammar teacher content development and student learning at English Language Department of the Western Multidisciplinary Campus of the University of El Salvador-2020".

Therefore, to accomplish this objective, the searchers came up with two specific objectives: a) To lead English Grammar Group I teacher and students to a secure and reliable space/place where they can share significant subject information each other, b) To integrate cutting-edge technological tools that change the traditional teacher-student relationship into a modern, efficient, friendly and functional one. As a result, the researchers found came upon several

findings related to the secure and reliable place where the English Grammar I teacher and students can share information/documents each other using cutting-edge technological tools that change the traditional teacher-student relationship into a modern which are sorted out according to the above mentioned objectives. Thus, as for the first specific objective, the research team found that the English Grammar I teacher and students have some inconveniences using some virtual platforms such as Schoology, Edmodo, Moodle, Google Classroom, and UESOcc platform.

For example, the English Grammar I teacher says that he is accustomed to use different virtual platforms such as Schoology, Edmodo, Google Classroom, Moodle, and UESOcc platform to develop quizzes, exams, or share documents with his students; however, he expressed that these platforms do not meet his expectations because these platforms do not offer him the tools to create activities developing the four English Language skills, or to have a elibrary. Moreover, the English Grammar teacher I mentioned that he does not look for a wonderful o brilliant interface; what he wants is to have the tools to improve the students' learning in English Grammar. The English Grammar I teacher mentioned that he uses virtual platforms because he is constantly updating so that his students' teaching is at the forefront with what technology offers since the millennials not only use books or appendices, but also the technological resources since the teacher wants his students utilize 21st century learning tools to grasp different grammar structures and contents.

Further, the researchers found that being a bilingual person has many advantages such as communicating with other people from other countries, reading more literature, studying abroad, and getting new job opportunities; besides, bilingual people acquire cognitive benefits since they are more creative and are better at solving complex problems; that is, it makes people smarter since it has a profound effect on the brain by improving cognitive skills and even shielding against dementia in old age; thus, students of English have to use technology to make their learning more effective. As a matter of fact, the teacher and students need virtual platforms that cover all their necessities in the learning a new language like English even more in this time of crisis.

More importantly, when the researchers asked the English Grammar I teacher about what he thinks about to have the platform E-GLOO exclusive for English Language Department, he said—"it would wonderful; It will be awesome! It will give the opportunity of not customizing contents, courses, and lessons. Moreover, it will be a representation for the English Language Department" (see *Table 3 A1: The teacher' expertise when using platforms in English Grammar*). Also, the teacher expressed that having an exclusive platform for a specific group of people, in this case, the teachers and students from English Language Department; the problem of sign up or log in will be rarely.

Furthermore, the research team came upon that the English Grammar I students answers that they have had problems using virtual platforms; the 91.2 % of the students answers that they have used virtual platforms such as Schoology, Google Classroom, and UESOcc platform before taking the subject English Grammar I teacher what it is beneficial for them, but the 8.8% of them answered that they have not used any virtual platform. Further, the students expressed that virtual platforms do not offer them practices what they have learn in class because the platforms do not cover their need as foreign students. The students want that the platforms incorporate tools like games, puzzle, dictionary, and notifications, and be able to develop activities where they can improve their four English Language skills. The English Grammar I students answered that they have problems sign up or log in the platforms Schoology, Google Classroom, and UESOcc platform not for the internet but for the number of users who use the platforms. Besides, the majority of the students considered that the use of any virtual platform contributes to care the environment without wasting paper because they can perform activities like the test, send homework assignments, and be in contact with the teacher using the platforms in a group message, but not in a private chat with the teacher (see Table 4 B1: The students' knowledge of the use of virtual platforms).

In addition, the research team found although the platforms Schoology, Edmodo, Google Classroom, Moodle, and UESOcc platform offer the user a place where any user whether if he is teacher or student can share documents, guides, or PowerPoint presentations, these platforms are copyrighted as the owner of them is able to see the shared information regardless of whether the information is not malicious. It is owing the number of any type of user who has access to sign up or log in to these platforms Schoology, Edmodo, Google Classroom, Moodle, and

UESOcc platform. Even though the platform UESOcc platform which was created by UES students, it is used by all the teachers and students of any major or subject at the University of El Salvador since they just use the institutional car and password.

Then again, as for the second specific objective: "To integrate cutting-edge technological tools that change the traditional teacher-student relationship into a modern, efficient, friendly and functional one", the researchers classified the information of the virtual platforms Moodle, Schoology, Edmodo, Google Classroom, and UESOcc platform most used by English Grammar I teacher and students in terms of the tools they offer and do not offer (see *Table 6 D1: The Virtual Platforms Features*). First, Moodle offers several cutting-edge technological tools, which work for any type of user regardless of the major since users can share documents, view teacher notifications, send assignments, perform activities using images or items. Likewise, this platform allows the user to have a private or group chat to answer doubts teacher-student. Even though this platform offers infinite tools, the interface is a big problem since the user feels lost without knowing how each tool of the platform works since Moodle does not have a video or guideline for the users. Besides, Moodle does not offer the user create activities using the four English Language skills such as videos, audios, images, items, Moodle allows at least images and items.

Second, Schoology offers the user a friendly interface in comparison to Moodle since Schoology show the users the necessary tools to work and the courses in which users are enrolled to access them easily. However, the platform has fewer cutting-edge technological tools to offer, Schoology offers the tools like notifications, create activities using items, group chat, share documents, send assignments, but it does not offer videoconference, create activities using videos, audios, images, and items, record audios, record videos, or dictionaries. Third, Edmodo, like Schoology, offers an accessible interface since it shows users on the home page most of its tools so that they can work. Edmodo offers users the following tools backpack, notifications, chat, calendar, create activities using images or items, and send assignments. On the contrary, Edmodo does not allow users to have videoconference, have games, or create activities using videos, audios, images, or items in the same activity.

Fourth, Google Classroom offers a very simple interface which on the homepage presents the user only the course where he is enrolled, then the user can access to see the documents or activities. In addition, this tool briefly offers few tools to the user such the following calendar to see the activities, videoconference, upload or download documents, send assignments, translator, and give comments. Google Classroom does not allow the user create activities using videos, images, or audios, chat, or games related to a specific topic. The user has few options for working on the platform even though Google Classroom allows to have a videoconference. Finally, the UESOcc platforms was designed for the exclusive use of students and teachers at the University of El Salvador; however, like the above-mentioned platforms, it was not created for a specific subject or major. The interface of the UESOcc platform is similar to Edmodo since on the homepage it shows all the courses, activities or documents for the students, but UESOcc platforms does not prove the teacher with videoconferences, games, activities for the students, dictionary, or recording audios or videos. Moreover, the UESOcc platform is not at the forefront with the cutting-edge technological tools so that the teacher of each area does not have the opportunity to create activities does not matter the subject.

Furthermore, the research team came upon that any virtual platforms above-mentioned cover all the necessities of the English Grammar I teacher, but the teacher has made use of other resources such as Meet, Zoom meeting for give reinforcement to his students since the platforms do not allow him to do it inside during this Covid-19 pandemic. Likewise, any platform Moodle, Schoology, Edmodo, Google Classroom, and UESOcc platform give the option to the teacher to have an e-library where he can organize all the files of each course without searching the files out on the computer. Also, these platforms do not allow games or puzzles that English Grammar I students exposed that are important for improve their abilities in English Grammar.

The research team found that the platforms Moodle, Schoology, Edmodo, Google Classroom, and UESOcc platform used by English Grammar I teacher and students offer various tools, but these do not cover English Grammar I teacher and student's needs. This is owing that the platforms were not designed for a specific group of people. In addition, these platforms differ each other since each one offer something in common or different than other, this means, the user cannot have all the tools and incorporate new ones on a single platform. Besides, any virtual platform Schoology, Edmodo, Moodle, Google Classroom, or UESOcc platform offer a guideline or tutorial for the user know each of the tools that each of them offer.

In the case of the Alpha version of the platform E-GLOO, the researchers came upon it must offer from the beginning a tutorial or a guideline for the teacher and students so that they do not face any inconveniences to use of the tools that the Platform E-GLOO offers. Further, the Alpha version of the E-GLOO platform offers not only basic tools such as notifications, messages, download/upload documents, and send assignments but also cutting-edge technological tools like Edgames, videoconference, dictionary, e-library, and design any activity using items, video, audios, and images. Likewise, this version provides a guideline on how create Virtual Games using programs such as PowerPoint, Ispring, and Sublime Text for any subject.

#### CHAPTER VI: CONCLUSIONS AND RECOMMENDATIONS

After carrying out the holistic projective research study: "Proposal to Design the Platform E-GLOO for English Grammar Teacher Content Development and Students Learning at the English Language Department of the Western Multidisciplinary Campus of the University or El Salvador-2020, and after having designing the platform E-GLOO (model) which will only serve as a guide of what elements it should have and how it should work, and despite the limitations owing the Covid-19 pandemic, and analyzing the bibliographical research, the research team formulated the following conclusions and recommendations.

### 6.1 Conclusions

- 1. The institutional educational system was vulnerable to the Covid-19 pandemic, which shows that goodwill is not enough to satisfactorily guarantee educational continuity through virtual platforms. Teachers were not trained to use these tools to support the development of their content, therefore, the need was seen to design a VLE with a friendly environment where extensive technology expertise is not required.
- 2. Most of the existing platforms do not have adaptive content, tools or user interface (UI) that help to support the specific needs of a subject or a study area, since they are created for a general public or users.
- 3. Virtual platforms by themselves do not offer a user manual or tutorials where teachers and students can have a wide knowledge of the VLE uses, all the benefits they provide or the tools they offer. The majority of tutorial found by users are created by other users where they explain step by step how to do something in a determined platform, which means, if someone need to know about a VLE, he will depend on information from third parties and not from the original developer or provider.
- **4.** Not all the platforms have useful tools but each one offers something that the other does not, in this way, the user cannot have all the tools that meet his needs on a single platform.
- 5. The E-GLOO platform was design with an adaptable UI with the purpose of covering not only the English Grammar I teacher and students needs from the English Language Department, but also to the other existing subjects and departments at Western Multidisciplinary Campus of the University of El Salvador.

### 6.2 Recommendations

When a study is carried out regardless of what type, in this case a holistic projective research one, it is common to face a set of limitations; hence it is a duty for the researchers to give some recommendations to help the future researchers reduce the impact of future negative situations.

#### **Recommendations for Future Researchers**

- 1- Prospective researchers should provide a series of trainings on the uses of the E-GLOO platform once it has reached alpha and beta version using the design and tools provided in this research project.
- **2-** Future researchers should test both the teacher and the students when they implement the E-GLOO platform, in this way they will know what improvements the platform will need.
- **3-** Before the platform reaches the beta version, future researchers could adapt the E-GLOO platform not only to the English Language Department, but also to the other departments.
- **4-** Future researchers should take into account the opinions of all the heads of the university departments in order to create content adaptable to the needs of the different careers available in the campus. This will serve to create a better UI which provides an excellent user experience.
- 5- Once the E-GLOO platform has reached the final version, future researchers should provide and place on the main page of the platform a series of tutorials which will facilitate information the correct usage of the platform. These tutorials will serve as a guide to exploit 100% of the platform's potential.
- **6-** When future researchers develop the E-GLOO platform, they will need to take into account all the positive aspects that other VLE's offer without affecting the friendly user interface created independently for each of the existing careers on campus.

- 7- Future researchers should look for the way the University of El Salvador incorporates the E-GLOO platform not only in the English Language Department, but also to the other careers and departments existing at the Western Multidisciplinary Campus of the university of El Salvador.
- **8-** Future researchers should have in mind that this E-GLOO platform will be for exclusive use of the University of El Salvador, therefore, it is recommended to be careful not to reveal import data such as the lines of codes or the different processes that were used to create it.

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# **APPENDICES**

# APPENDIX A "Semi-structured interview addressed to the English Grammar I teacher"

# UNIVERSIDAD DE EL SALVADOR FACULTAD MULTIDISCIPLINARIA DE OCCIDENTE FOREIGN LANGUAGE DEPARTMENT



## Semi-structured interview addressed to the English Grammar I teacher

**Objective:** To gather information about the teacher' expertise using any virtual platforms creating activities or exams for his students

**Directions:** the research team will ask some questions to the teacher related to the educational purposes of virtual platforms

- 1- What virtual platforms do you usually use in English Grammar?
- **2-** Why do you prefer to use these or that virtual platforms?
- 3- What benefits do you see in the use of a virtual platform in English Grammar?
- **4-** Do you consider that each of the virtual platforms that you usually use accomplish all the needs you have when creating activities or exams for your students? Yes No, Why?
- 5- Which tools do you consider useful in a virtual platform, for example office, translator?
- **6-** What tools do you not find useful in a virtual platform?
- 7- What tools would you add to a virtual platform?
- **8-** Do you think that creating an exclusive platform for the language department would be beneficial?

Yes, No, Why?

# APPENDIX B "Questionnaire addressed to English Grammar I students"

#### UNIVERSIDAD DE EL SALVADOR

# FACULTAD MULTIDISCIPLINARIA DE OCCIDENTE



# FOREIGN LANGUAGE DEPARTMENT

## **Questionnaire addressed to English Grammar I students**

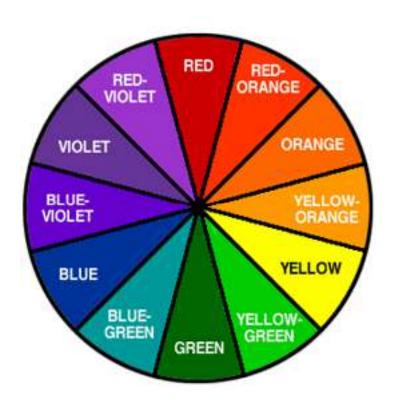
**Objective:** To gather information about the inconveniences and suggestions through the English Grammar I students' experiences.

**Directions:** The research team will share with the English Grammar I teacher the questionnaire through Google, and the teacher will share with his students it.

1-	Have you ever used any virtual platform?
2-	Which of the following platforms show below have you used?
	Schoology
	Edmodo
	Moodle
	Google Classroom
	Other
3-	Do you feel comfortable using a virtual platform? If your answer is NO, please explain why.
4-	What benefits do you see in the use of a virtual platform?

5- Which difficulties have you encountered when using a virtual platform?

- **6-** What kind of tools do you consider useful on a platform for example dictionary or recorded?
- 7- What kind of tools do you not consider useful on a platform apps or games?
- **8-** Which tools would you like to add on a virtual platform for example games?
- **9-** According to the chromatic circle, write down which color you like the most for a virtual platform design.



# APPENDIX C "Discussion group"

# UNIVERSIDAD DE EL SALVADOR

# FACULTAD MULTIDISCIPLINARIA DE OCCIDENTE



# FOREIGN LANGUAGE DEPARTMENT

# Discussion group addressed to the research team

	<b>Objective:</b> To grasp information to proceed in the design of the E-GLOO platform
	<b>Directions:</b> The research team will discuss about the steps to follow to design the Alpha version of the E-GLOO platform.
1-	Which features do you consider the E-GLOO platform should have to make it different from others?
2-	What are the common tools that the virtual platforms (Schoology, Edmodo, Google Classroom, Moodle, and UEs platform) offer?
3-	What tools do you consider teacher look into a virtual platform to develop the activities?
4-	What is your opinion about the inconveniences that English Grammar Group I teacher and students have suffer using the virtual platforms Schoology, Edmodo, Google Classroom, and UEs platform?

willen t	enefits do you c	onsider the E-C	GLOO platfor	m will offer E	nglish Grammar t
What su	ggestions could	you give to des	sign the Alph	a version of th	e E-GLOO platfo
				a Version of th	

# APPENDIX D "Observational guide about the virtual platforms Schoology, Edmodo, Moodle, Google Classroom, and UESOcc platform

# UNIVERSIDAD DE EL SALVADOR FACULTAD MULTIDISCIPLINARIA DE OCCIDENTE FOREIGN LANGUAGE DEPARTMENT



# Observational guide addressed to the research team

**Objective:** To gather suitable information about the positive features that the virtual platforms (Schoology, Edmodo, Moodle, Google Classroom, and UEs platform) have in order to take into consideration while designing the Alpha version of the E-GLOO platform

**Directions:** The researchers will use the following observational guide to compare the virtual platforms (Schoology, Edmodo, Moodle, Google Classroom, and UESOcc platform) in order to identify the tools that each of them offers or not.

Characteristics	Моо	dle	Schoo	ology	Edm	Edmodo Google Classroom			UEs platform	
	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
1) Friendly interface										
2) Private chat between teacher-student										
3) videoconference										
4) Create activities using audios, videos, and items										
5) Organization of files										

6) Functional Tools to create a better					
interaction					
7) Secure and Reliable place to share information					
8) Performance of multimedia tasks					
9) Offer extra applications to learn					
10) Easy accessibility to sign out/log in					
11) Technical support					
12) Internal practice area					
13) Several course in the same template					
14) Record video					
15) Record audio					
<b>16)</b> E-library					
17) Calendar					
18) Control of the activities					
19) Attendance control					

# APPENDIX E "The teacher' expertise when using platforms in English Grammar"

Table 3 A1: The teacher' expertise when using platforms in English Grammar

Questions	Answers	Indicators	Objective	Interpretation
1- What virtual platforms do you usually use in English Grammar?  2- Why do you prefer to use these or that virtual platforms?	A. I have used the wonderful Edmodo platform, which has many things that call my attention such sharing documents with my students, and it has an easy interface to use.  B. Also I had the opportunity to use Moodle and I did not like it. I do not like the interface that it has.  C. Google classroom was tried in my Classes and some other projects too. I liked the tools it offers but I think it has to have some other tools to help the teacher to encourage the student's learning.  D. In some cases, I used Schoology that is a good one too, but it does not fill out my expectations.  Personally, I have gone for the Edmodo Platform because of it is easy and accessible interface. That	<ul> <li>Motivation</li> <li>Professionalism</li> <li>Students' performance</li> <li>Resources</li> <li>Support the students incorporating technological tools</li> <li>Millennial' learning process interactive</li> </ul>	To lead English Grammar Group I teacher and students to a secure and reliable space/place where they can share significant subject information each other	The use of virtual classrooms is something significant in the students' learning process because the virtual platforms facilitate the incorporation of activities and exams by teachers. This serves to complement the teaching of the classroom because on many occasions the teachers do not manage to fully develop the topic in class, either due to the class time or due to the number of students.  This is reflected in the interview with the English
	makes it be			

	1 01 1 7 2		
	wonderful since I do		Grammar I teacher
	not have problem to use it and		where he says that he
	implement it in My		has spent years using
	English grammar course. Actually, I		virtual classrooms to
	have implemented it		teach his classes,
	many times in my courses.		share files with
2 117			students, develop
3- What benefits do	<b>A.</b> Well, The main benefit is to make		practices and exams.
you see in	students continue		Despite using virtual
the use of a virtual	with their learning outside the		classrooms, the
platform in	classroom and they		teacher mentions
English	can learn more		that not all the virtual
Grammar?	through developing activities assigned		classrooms that he
	in the platforms.		
	<b>B.</b> To Spread expertise and make		has used have met
	students be happy to		his expectations.
	learn more and		This is because each
	more.		platform has
			something good or
			bad like the interface
			or the tools it offers.
			In other words, the
			platforms have not
			been designed for a
			specific subject or
			group.
			D :1 .1 . 1
			Besides, the teacher
			looks for an easy
4- Do you	Actually, I have		interface and tools
consider	asked the same		that offers the
that each of the virtual	question many times and I have		necessary to
platforms	never found a		
•	•	ı	,

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that you	platform that	accomplish all
usually use	accomplish all the	activities. In
accomplish all the	need I look for since there are	way, the m
needs you	always limitations	way, the m
have when	that stuck the	benefit of us
creating	student's learning	platforms is to m
activities or	and the	
exams for	accomplishment on	students conti
your	their learning.	with their learn
students?		outside
Yes		outside
No,		classroom and ti
Why?	TT 1 771 1 1	can learn m
5- Which tools do	Honestly, The tools I consider useful are	through develop
you	to have a part	
consider	where I can upload	activities assigned
useful in a	audios and videos	the platforms
virtual	directly or videos	
platform,	conferences since	Moreover,
for	limitations of time	teacher expres
example	or something that	
office,	organized my files,	that he would like
translator?	and also I would like to be able to	have
	create analytic	accessibility of be
	activities and	
	others.	able to upl
W/leat to all	T think the tendent	videos, audios,
6- What tools do you not	I think the tools that could be deleted are	video conferenc
find useful	the showing the	
in a virtual	place or the part	directly to
platform?	where it says to rate	platforms with
-	the app.	the need of lir
7- What tools	If I had the chance	-
would you	to add more tools, I	Likewise,
add to a	would add a special	expressed
virtual	media section	document
platform?	where I could	organization
	upload docs, videos	organization
	, books , audios ,	creating analy
	etch without having any limitations to do	activities are thi
	it.	activities are this
	10.	

8- Do you think that creating an exclusive	Of course, it would wonderful; It will be awesome! It will give the opportunity	that he would like to be able to do on a platform. This
platform for the	of not customizing contents, courses,	information was
language department would be	and lessons.  Moreover, it will be a representation for	vital to launch the design of the E-
beneficial? Yes, No,	the English Language	GLOO platform
Why?	Department since it	which can meet the
	would be limited to the department and singular to help the teachers form the	needs of the teacher and students as it
	department to develop their	will be exclusively for learning the
	courses in the major.	English language and its branches.

Source: Researchers' own creation

# APPENDIX F "The students' knowledge of the use of virtual classrooms"

Table 4 B1: The students' knowledge of the use of virtual classrooms

Questions	Answers	Indicators	Objective	Interpretation	
1. Have you ever used any virtual platform?  2. Which of the following platforms	The 91.2% of students answered that they have used virtual platforms.  On the other hand, the 8.8% answered that have not use virtual platforms in class.  The 91,1% of the students answered that they are	- Millennials' learning process using technological tools  - Students' enhance using informatics skills using	- To lead English Grammar Group I teacher and students to a secure and reliable space/place	It is notable that the majority of English Grammar I students know how to use some virtual platforms; others know have used at least one. In La Licenciatura Idioma Inglés	
show below have you used?  Schoology  Edmodo  Moodle  Google Classroom  Other	accustomed to use Schoology. The 47,1% have used Edmodo, and the 5,9% have used Moodle. Besides, the 2,9% have used Powton or UESOcc platform.	the computer  - Students' experienced developing activities using the four English Language	space/place where they can share significant subject information each other	space/place where they can share significant subject information each other  Space/place Opcion Ensumost teach virtual cla to teach classes or exams such English Gra teacher. Us	
3. Do you feel comfortable using a virtual platform?  If your answer is NO, please explain why.	The 85,3% of the students answered that they felt comfortable using virtual platforms in classes or at home, but the 14,7% answered they felt uncomfortable. The reasons were connection problems, log in problems, and	skills		find tools that they do not know, or they do not know where they are since they are not very accessible in some platforms	

		management tools of	such as So	choology,
		the virtual platform.	Edmodo, o	
				C
			Classroom	
			Furthermo	re, the
			previously	
			mentioned	
4.	What benefits do	The majority of the	platforms	do not
	you see in	students considered that the use of any	focus on	a single
	the use of a	virtual platform	language,	_
	virtual	contributes to care the		
	platform?	environment without wasting paper.	teacher, or	J
		Moreover, the	Therefore,	students
		students considered	face	certain
		that it is easier to perform activities,	difficulties	when
		test, send homework	using the p	olatforms.
		assignments, and be	Among	those
		in contact with the teacher using the	difficulties	the fact
		platforms.	that some	
5.	Which	The students		-
	difficulties	answered that face	give them	_
	have you	problems with	problems,	sending
	encountered when using a	internet connection, log in and Wi-Fi.	documents	s, audios,
	virtual	Also, the students had	or videoco	nference.
	platform?	problems working on		
		the test when the virtual platform is	On the oth	her hand,
		freezing.	the studen	nts stated
6.	What kind of	The students	that the	platforms
	tools do you	considered that the	do not of	fer them
	consider useful on a	option of course is a	games re	lated to
	platform for	good option because they can register in		oics, or
	example	any course at the		•
	dictionary or recorded?	same virtual platform.	private	chat
	recorded?	Besides, they answered that some	between t	hem and
		virtual platforms such	the teach	ner. All
		as Schoology and		

	T 1 1 1	T	T	.1
	easier interface. Other students answered that puzzles. Games, and forum are the best option to practice on the virtual platforms.			these mentioned disadvantages; the researchers hope to change them in the design of the E-
What kind of tools do you not consider useful on a platform apps or games?	Most of the students answered that podcasts and voice notes are not good on a virtual platform. On the other hand, the minority of them answered that profile picture is not necessary just with the name is enough to identify themselves.			GLOO platform.
Which tools would you like to add on a virtual platform for example games?	The students considered that some virtual platforms do not offer the tools such as audio, video, videoconference, notifications, grammar games, puzzles, and a guide instruction, which would be incorporated in a virtual platform.			
According to the previous chromatic circle, write down which color you like the most for a virtual platform design.	The 70% of the students answered that they prefer a virtual platform color blue green. The 20% preferred the color yellow green, and the 10% preferred red violet.			
	not consider useful on a platform apps or games?  Which tools would you like to add on a virtual platform for example games?  According to the previous chromatic circle, write down which color you like the most for a virtual platform	easier interface. Other students answered that puzzles. Games, and forum are the best option to practice on the virtual platforms.  What kind of tools do you not consider useful on a platform apps or games?  Which tools would you like to add on a virtual platform for example games?  Which tools would you like to add on a virtual platform for example games?  According to the previous chromatic circle, write down which color you like the most for a virtual platform  The 70% of the students answered that profile picture is not necessary just with the name is enough to identify themselves.  The students considered that some virtual platforms do not offer the tools such as audio, video, videoconference, notifications, grammar games, puzzles, and a guide instruction, which would be incorporated in a virtual platform.  According to the previous chromatic circle, write down which color you like the most for a virtual platform color blue green. The 20% preferred the color yellow green, and the 10% preferred red violet.	easier interface. Other students answered that puzzles. Games, and forum are the best option to practice on the virtual platforms.  What kind of tools do you not consider useful on a platform apps or apps or the other hand, the minority of them answered that profile picture is not necessary just with the name is enough to identify themselves.  Which tools would you like to add on a virtual platform for example games?  Which tools would you like to add on a virtual platform for example games?  According to the previous chromatic circle, write down which color you like the most for a virtual platform  The row of them answered that some virtual platform.  According to the previous chromatic circle, write down which color you like the most for a virtual platform  The row of them students considered that some virtual platform.  The students considered that some virtual platforms do not offer the tools such as audio, video, videoconference, notifications, grammar games, puzzles, and a guide instruction, which would be incorporated in a virtual platform.  The row of them answered that they prefer a virtual platform color blue green. The 20% preferred the color yellow green, and the low preferred red violet.	easier interface. Other students answered that puzzles. Games, and forum are the best option to practice on the virtual platforms.  What kind of tools do you not consider useful on a platform a virtual platform. On the other hand, the minority of them answered that profile picture is not necessary just with the name is enough to identify themselves.  Which tools would you like to add on a virtual platform for example games?  Which tools would you like to add on a virtual platform for example games?  The students considered that some virtual platforms do not offer the tools such as audio, video, videoconference, notifications, grammar games, puzzles, and a guide instruction, which would be incorporated in a virtual platform.  According to the previous chromatic circle, write down which color you like the most for a virtual platform color blue green. The 20% preferred the color yellow green, and the lower option to practice on the best option to practice on the virtual platform.  According to the tools such as audio, video, videoconference, notifications, grammar games, puzzles, and a guide instruction, which would be incorporated in a virtual platform color blue green. The 20% preferred the color yellow green, and the lower option to practice on the virtual platform color blue green. The 20% preferred red violet.

Source: Researchers' own creation

# APPENDIX G "E-GLOO platform features"

Table 5 C1: E-GLOO platform features

Questions	Answers	Indicators	Objective	Interpretation
1. Which features do you consider the E-GLOO platform should have to make it different from others?	A: I consider that the E-GLOO platform must have an easy interface which contains the necessary tools that avoid getting confused. Moreover, the platform needs to offer all the tools that help the teacher designs exams or activities incorporating the four English Language skills since the students are from Licenciatura en Idioma Inglés Opción enseñanza.  E: I consider that E-GLOO must be easier to get access for everyone. To sing up and to log in should be the most important features that E-GLOO would have. However, to have a friendly interface is another important feature to consider at the time of designing the online platform.  F: I consider to be an excellent virtual platform centralized on teaching and learning English, it should contain an English dictionary place on the main page in order to facilitate students to understand some words they do not know.  Moreover, it should contain some grammar games not only for fun, but also for learning. Educational games would help students learn easily what they consider difficult in class.	- The develop ment of the four English Languag e skills - Friendly interface - Organiz ation files - Cuttingedge technolo gical tools - Secure and reliable space/pl ace to	- To integrat e cutting-edge technol ogical tools that change the traditio nal teacher - student relation ship into a modern , efficien t, friendl y and	The design of the platform E-GLOO, regardless of whether it will be an Alpha version, aims to incorporate all those tools that help the English Grammar teacher in his development of classes, activities, or exams for his students' learning process.  The English Grammar I teacher and students expressed that some of the characteristics of the platforms such as Schoology, Edmodo, Google

	<b>J:</b> Basically, what can make the	share	functio	Classroom, or
	E-GLOO platform be different would be to contain an useful	informat	nal one	Moodle do not
	and Private chat between	ion		like since they
	teacher-student ,a Secure and Reliable place to share			either do not know
	information and an Easy			how to use the
	accessibility to sign out/log in.			tools or do not
2. What are the	A: The common tools are			know how to find
common	courses, calendar, messages, notifications, and office			them. Therefore,
tools that the virtual				the platform E-
platforms	<b>E:</b> The commonly known tools platforms such as Schoology,			GLOO features
(Schoology,	Edmodo, Google Classroom			
Edmodo,	and Moodle have each other a			must be easy to use and instinctive
Google Classroom,	wall profile where users can upload students' information,			
Moodle, and	menus with templates which			so that the teacher
UESOcc	function as courses, resources, classes and grades.			and students feel
platform)	Additionally, almost all the			comfortable
offer?	useful platform allows to upload and download			working.
	information from teachers to			Moreover, the
	students and students to			Alpha version of
	students themselves. Finally, all of them have a "searchers" box			the platform E-
	connected with google			GLOO will be a
	platform, calendar schedules, email box and notification's			guide will show
	alarms.			that it will have
	<b>F:</b> Firstly, all of them have 2			
	versions. The free version with			many benefits not
	limited access or storage and the paid version where the			only because it
	access and storage depend on			will be exclusive
	how much money you have.			for English
	Second, they have Tracking and reports. That means they record			Language
	and track a student's progress.			Department but
	Third, they also have an automatic evaluation that			also because it
	facilitates teachers to grade			will focus on each
	every single activity. Fourth,			

tool helping in the one thing that looks as an advantage for some and teaching disadvantages for others, the chat room. Finally, they bring English Language possibility to create in all its branches. documents since they have access to Office offline. Besides, the **J:** The common tools that the platform will offer virtual platforms are to create games for exams, to post pictures, to organize discussions students to download books. practice English What tools **A:** I consider that the teacher Grammar. Also, it looks for tools that help him do you will offer an ewith the design of the activities consider without managing many aspects library where the teacher looks to incorporate all the items. into virtual teacher can platforms to **E:** Teachers almost always look organize and save develop the for useful platforms which have all the an excellent interface with files. activities? features to allow having video exams. or conference classes, personal activities. This chats and download facilities. Also, they look for a space or will be of great option for students to deliver help to the teacher their homework assignment without using external since with the ewebpages from the platform. library the teacher So, a virtual platform must have internal storage capacity will not need to without using external servers where information would have leave the platform adrift. Finally, it is necessary in search of his that a platform should be files because without activated 7/24 disconnecting server access. everything he **F:** To present a test in different needs will be manner. organized and A google search engine. private for him

To export the results of students grades to a excel document

To add a video on a test and

make it as part of the test.

A private chat with the teacher

**J:** The teacher looks into a virtual platform a way to develop many activities such as videos conferences, audios, records, library to organize files in order to develop more interaction with their students.

**4.** What is your opinion about the inconvenienc es that English Grammar Group I teacher and students have suffer using the virtual platforms Schoology, Edmodo, Google Classroom. and UESOcc platform?

**A:** I passed for many problems as those students have already passed; I think that those problems are due to the amount of people who access to the virtual platforms. Moreover, in actualizations. some platforms include more applications that can confuse the students and teacher in how to use it. On the other hand, the platform is not actualizing, and it does not incorporate the necessary tools to develop or design activities.

E: I think that not all English Grammar students have an excellent Internet connection. For the good use of any online platform it is necessary to have a computer or smartphone, but even having an electronic device does not guarantee that you have economic resources to pay for internet access. Even if students, on their own, access the use of internet data; This does not guarantee that they have access to a stable web

exclusive use unless he wishes to share his files with the students.

Moreover, the Alpha version of the E-GLOO platform will help the teacher creating assignments and quizzes with more options that only use items. The teacher will be able to incorporate audios, videos, and images in the quizzes, exams, or assignments.

To show how and where to incorporate all these elements into the E-GLOO platform, the researchers will use the programs

	connection. These are the	Xamp,
	problems that students face.	-
	problems that stadents face.	Wireframe,
	<b>F:</b> Internet access is required to	WordPress,
	use those platforms. Some of	Adobe Illustrator,
	the students do not know how to	Adobe musitator,
	use a virtual platform even	PowerPoint,
	when it was made with a	among others.
	friendly and intuitive interface.	8
	<b>J:</b> The most common	
	inconveniences are no to be	
	able to access to the platform or	
	the platform stops working in	
	the middle of a test .And also	
	some platforms do not allow	
	students to access to it from a	
	whatever devices.	
5. Which	<b>A:</b> Although the E-GLOO	
benefits do	platform will be an Alpha	
you consider	version, it will help English	
the E-GLOO	Grammar teachers and students	
platform will	since the Alpha version will be	
offer English	exclusive so that students can	
Grammar	develop their English Language skills.	
teacher?	SKIIIS.	
teacher:	<b>E:</b> E-GLOO will have benefits	
	of accessibility to get access	
	easily. It will also have	
	specialized menus, a variety of	
	useful tools for the best	
	operation of virtual classes;	
	creation of forms, scheduled	
	activities, downloading	
	multimedia files, etc. It will have a tool where video	
	conferences and interactions	
	between students and teachers	
	by virtual chats would happen.	
	More, it will also have a special	
	internal storage space for	
	keeping documents and files.	
	Additionally, it will have drop-	
	down menus, hyperlinked	
	submenus within the same	

	1.461 111	
	platform, and a updateable students or teacher user profiles.	
	F: Firstly, it would be exclusive for he and his students. Second, it would be oriented to English learning. Since the platform will be created by language students, it would be created with an easily management of it. It will not be complex to manipulate.	
	J: A better interaction to gain more grammarian knowledge and then, students will be able to use their grammar in their daily life accurately. The students will enjoy and learn at the same time.	
6. What suggestions could you give to design the Alpha version of the E-GLOO	A: I consider that the E-GLOO platform should have a guide of where to search or how to use each instrument that it will offer. In this way, the teacher or student will not have problems when using or searching for them.	
platform?	E: In order to have an Alpha version of E-GLOO online platform, I suggest that investigator must plan a final version using programs with open code based on PHP or HTML.	
	<b>F:</b> Since it is an Alpha version, it would not be complete or complex.	
	<b>J:</b> Make k.i.s.s. (keep it short and simple). I mean add just the useful tools and make it up easy	

	to use and to be able to take
	advantage of it while teaching
7. Which	A: I think the programs could
	be PowerPoint, Editor, or
programs do	Screencast-o-Matic. Those
you propose to	programs would help us to
design the	present the design that we want
Alpha Version	to give to the platform.
of the E-	gera to the Fermi Paris
GLOO	E: I propose to use Adobe
platform?	Dreamweaver v.8.0 from
1	Adobe Creative Corporation.
	<b>F:</b> These programs will be used
	not only for the alpha version
	design, but also for the rest of
	the project. Adobe Photoshop,
	Adobe Illustrator, Balsamiq
	Wireframe, Xamp, WordPress,
	and Sublime Text 3 or any other Text editor.
	Text editor.
	<b>J:</b> It would be so great if there
	were word, power point and
	moviemaker in a section to
	create live videos or record
	voice notes, a game section. All
	included on it since I could
	create such a wonderful thing to
	encourage the student learning
	in a more proactive way and
	efficient way.

Source: Researchers' own creation

# **APPENDIX H "Virtual Platforms Features"**

Table 6 D1: Virtual Platforms Features

			Vi	rtual Platforms	ıal Platforms				
Q	uestions	Moodle	Schoology	Edmodo	Google Classroom	UESOcc Platform	Indicators	Objective	Interpretation
1-	Does it have friendly interfac e?	Moodle does not offer a friendly interface since it has many tools that students or teacher feel confused.	Schoology does not offer a friendly interface since it has many tools that students or teachers feel confused.	Edmodo offers a friendly interface where the users can see most tools. The only inconvenience is that the students have problems to join to the courses.	It does not offer a friendly interface since the users get confused where to see the courses, download files, upload files, etc. The interface is not attractive.	It offers the users an interface where the users can see some tools and others the users must look for.	- The develop ment of the four English Languag e skills	-To integrate cutting-edge technologi cal tools that change the traditional teacher-student relationshi p into a modern, efficient, friendly	Virtual classrooms offer too many tools for any type of user, whether they know or not a certain language. However, in the tools described, some of virtual classrooms offer tools that other
2-	Does it offer private chat between teacher-student?	Moodle offers a private chat where the student and teacher can interact each other so that	Schoology offers a private chat where the teacher-	It offers a private chat between teacher-student so that they can share files or answer	Google Classroom does not offer any type of chat for the users. It just	It offers a private chat where the teacher and student can	- Organiza tion files	and functional one	platforms do not.  For example,  Moodle offers an  interface not

	the students can ask questions to the teacher.	student can share documents or answer doubts.	doubts about the topic.	allows the users make comments.	interact each other share files or answer doubts.	- Cutting- edge technolo gical	friendly because the Users are confused with too many tools that
3- Does it offer a videoco nference ?	It does not offer the option of videoconfere nce so the students just can send message to the teacher or the teacher sends messages to his students.	Schoology does not offer a videoconfe rence.	It does not offer to the user a videoconferen ce.	It does not offer the option of videoconfe rence for the users.	It does not offer a videoconf erence.	- Secure and reliable space/pla ce to share informati	they do not know how to use or where to find them for creating activities or uploading information. In addition, Moodle does not allow the
4- Does it offer to create activitie s using audios, videos, and items?	Moodle offers the teacher create and develop activities using those tools.	It allows the teacher create activities using audios, videos, or items but not using those tools in the exams.	It offers the teacher to create or design activities using videos, audios, or items, but in the case of the exams, those tools are not allowed.	It allows the user to create activities one with audios, videos, or items, but not using all the tools in the same	It offers the users create activities using one of those tools not all of them at the same time.	on	log in the home page since they must first identify if they are an instructor or if he will receive the course and wait

					activity or		for the password
					exam.		_
5-	Does it	Moodle	Schoology	Edmodo	It offers	It offers	to be sent to.
	offer	allows to	allows the	offers the user	the option	organize	Likewise, the
	organiza	create a	teacher to	organize the	of the	the files	interface of
	tion of	folder to	organize	files he will	calendar to	that the	interface of
	files?	upload	the files	share with his	organize	teacher	Google
		information,	that share	students, but it		share with	Classroom is very
		but It does	with his	does not allow	that the	his	_
		not allow the	students.	the user his	users	students.	simple, which
		teacher an		own library.	share.		only shows at first
		own library					
		to organize and save					glance the course
		and save many files.					in which the user
6	Does it	Moodle does	Schoology	Edmodo does	Google	It does not	is enrolled. When
0-	offer a	not offer a	does not		Classroom	offer a	
	guidelin	guideline to	offer a	guideline or a	does not	guideline	logging in the
	e to use	the students	guideline	video to know	offer a	or tutorial	course the user
	the tools	or teachers to	to explain		guideline	to use	1 41
	of the	know each	the teacher	so that the	or a	each tool	can only see the
	platform	part of the	and	uses do not	tutorial,	that	docs or the
	?	platform. The	students	have	which	UESOcc	activities that the
		tutorials on	the	problems	explains	platform	
		YouTube just	functionali	using the	all the	have.	course has, but
		offer a	ty of each	tools.	Google		users cannot see
		superficial	tool that it		Classroom		
		guide on how	offers.		features		the rest of the
		to log in or to	Therefore,		and the		tools that Google
		sign in.	the students		functionali		Classroom offers;
			and teacher		ty of each tools.		Classicolli offers;
			and teacher		toois.		<u> </u>

		get				the user must look
		confused				for them.
		using some Schoology				On the other hand,
		features				Schoology,
		even though				Edmodo and
		there are				
		tutorials				UESOcc platform
		about how				offer the user to
		to use				log in the home
		some aspects of				page and view
		the				
		platform.				most of their tools
7- Does it	Moodle is	Schoology	Edmodo also		This	eve though some
offer	copyrighted	is	is	Classroom	platform	tools are hidden.
secure and	and the author could	copyrighte d and the	copyrighted,	also is	was	However, the user
reliable	see the	author	and the author could see the	13 0	created by students	-
place to	information	could see		author	of the	can see the tools
share	although the	the	although the		UES,	the platforms
informat	information	informatio	information	the	therefore,	offer and add to
ion?	that the	n although		informatio	the	
	teacher or	the	teacher or	n although	informatio	the courses.
	students share is not	informatio	students share is not illegal;	the informatio	n share by the	However,
	illegal; it is	teacher or	<i>O</i> ,	n that the	students	although UESOcc
	not private.	students	private.	teacher or	or	
	•	share is not	1	students	teachers is	platform is a
		illegal; it is		share is not	not view.	platform created
		not private.		illegal; it is	The	

8-	Does it offer Perform ance of multime dia tasks?	Moodle does not offer the option to do many tasks at the same time. To work in each tool, the teacher or the students must have to do	It does not offer the option to do many tasks at the same time. To work in each tool, the teacher or the students	students must have to do them one by	It does not offer to do multimedi a tasks; the users must do one by one.	platform is just for the students y teachers of all majors of the UES.  It allows the teacher and students do one activity at the time.	by students so that all the teachers and students of the University of El Salvador use it regardless of the subject or the major, but this platform was not created for the necessities of a specific group of students or
		them one by one.	must have to do them one by one.	one.			teachers.  Moreover, In
9-	Does it offer extra applicati ons to learn?	Moodle does not offer activities or puzzles where the students can practice what they have learnt.	Schoology does not offer the options like games or puzzles where the students can practice	applications like games or	-	It does not offer other application like puzzles or games to practice what the students	addition, virtual classrooms do not offer tools such as having a video conference with students,

		what they		have learn	have	developing
		have learn		in class.	learnt.	activities using
		in class.				
10-Does it	It does not	Like other		The	The	the four skills of
offer	offer easy	virtual	other virtual	students	students	the English
easy	accessibility	classrooms	platforms	just need	just need	
accessib	to sign up or	,	often presents	to have	their	language, having
ility to	log in the	Schoology	problems	Google	institution	an e-library to
sign up/log	platform. Although the	usually has problems	when the users sign up	account and the	al mail and card	organize all
in?	teacher	when the		teacher'	to sign up,	
111:	provides the		platform.	code, and	and they	documents or
	code,	up or logs	piatroriii.	the	use the	activities without
	teachers have	in due to		students	teacher	
	trouble	technical		will be	'code to	having to leave
	registering	problems.		able to log	join the	the platform, or
	and entering	Even		in.	course.	uploading games
	the code	though the				
	since it often	students				so that the student
	gives an	have the code				practices.
	error, and students do	assigned				With these
	not know	by the				
	what to do.	teacher, the				findings, the
	What to do.	code gives				research team
		them an				modized that the
		error and				realized that the
		therefore				English Grammar
		the				I teacher and
		students				
		sometimes				students have
		do not				

		carry out				inconveniences
11-Does it	Moodle	activities. Schoology	It offers	It offers a	It does not	owing that the
offer	offers	offers	technical	technical	offer a	virtual platforms
technica	technical	technical	support, but	support.	technical	1
1	support, but	support	due to the	11	support to	were not created
support?	the	like the	number of		the	for a specific
	answer/help	other	users on the		teachers	major. The
	is too late.	virtual	platform and		and	
		platforms,	reporting		students.	researchers
		but the	problems the answers of the			decided design
		helping used to	technical			the Alpha version
		come late,	support is late.			_
		and the	11			of the E-GLOO
		students or				platform
		teachers cannot				incorporating the
		solve it the				tools that
		problem				platforms offer
		due to the				1
		number of				such as calendar,
		users that				notifications,
		the platform				dictionary, or
		allow log				
		in.				upload
12-Does it	It allows the	Schoology	Edmodo does	It does not	It does not	information, and
offer	teacher to	only offers	not offer	offer a		incorporate new
internal	place the link	the teacher	practice area;	practice	practice	1
practice	of the	or students	it allows the	area where		tools such as
area?	practice	paste the	user to paste	the	teachers	

	where the student clicks it; and the	link which redirects the users to	comment, and it redirects to	students can practice.	paste the links where the		videoconference, create activities
	link redirects him to the site to do the	the place where is the	the place where the practice is.		practice is.		including videos, audios, images,
	practice.	practice.	practice is.				and its in the same
13- Does it offer	Moodle allows the	It offers the option to	It allows the users to see	It does not show the	It offers the		activities for
several courses	teacher and students to	click on the courses to	their entire courses at	courses on the	courses on the		foreign students.
in the	have many	go to the	homepage.	homepage;	homepage		Besides, the
same template	courses at the same template.	course, which the user wants		the users must look for them.	•		researchers will incorporate the
· ·	tempiate.	to work.		ioi uiciii.			tool e-library for
		The courses do					organizing all the
		not appear					documents and
		orderly at home page,					activities to work
		so the					on the platform
		teacher or students					without looking
		have to					for information
		look for them.					out.
14- Does it	Moodle does	It does not	It does not	It does not	It does not		
offer	not offer the	offer the	offer the user	offer the	offer the		
record	option to	users the	the option of		option of		
video?	record video	option of recording	recording videos.	recording video.	recording video.		

15- Does it offer record audio?	on the platform.  Moodle does not offer the option to record audios	video on the platform.  It does not offer the users the option of	offer the user the option of	It does not offer the option of recording	It does not offer the option of recording
	on the platform.	recording audio on the platform.	audios.	audios.	audios.
16- Does it offer an E-library?	Moodle does not offer an E-library, but it allows uploading files.	Schoology does not offer the user the option of an e-library to organize, upload, or download files.	an e-library to organize their	It does not offer an library.	It does not offer an e- library for the teacher.
17- Does it offer a calendar ?	Moodle offers a calendar to the teacher organize the activities.	It offers the user a calendar to schedule activities.	It offers a calendar to schedule activities.	It offers a calendar to schedule the activities.	It offers a calendar to schedule the activities.
18- Does it offer a control of the	It offers a control of the activities	Schoology offers the user schedule	It allows the users schedule the activities	It does not offer the control of	It offers the control of activities.

activitie	using the	the	using the	the			
s?	calendar.	activities	calendar.	activities.			
		for the					
		students.					
<b>19-</b> Does it	Moodle	Schoology	Edmodo	It does not	It allows		
offer an	allows the	offers the	allows the	allow the	the		
attendan	teacher to see	teacher to	teacher to see	users to	teacher to		
ce	the amount of	have	the amount of	control the	see the		
control?	the students	control of	the students	students'	students		
	log in the	the number	who do the	attendance	who do		
	platform, but	of students	activities,		the		
	not names of	who log in	exams, or		activities		
	them.	the course;	quizzes, but it		but not the		
		however,	does not allow		ones who		
		he does not	the teacher		just log in.		
		know the	when the				
		names of	students just				
		those who	log in to the				
		log in on	course.				
		the course					
		only when					
		they do the					
		exams or					
		activities.					

Source: Researchers' own creation