



Title: Desing of a Smart application model for the teaching of a language in high school

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Introduction



Due to globalization and incorporation of technology in organizations, it has broken the distance barrier, therefore, be able communicating in another language has become in a key competency to excel in the labor, social and cultural market.

According to Rodríguez, R. (January 27, 2015), Mexico, 97% of the students who graduated from high school and currently are in high school are failing in the knowledge of English, 79% of students completely ignore the language, so I know has had to invent the A0 level that reveals the deficiencies in the teaching of the language in public tails that the Sorry study concludes, carried out by the organization Mexicanos Primero in

The incorporation of the Technologies Information and Communication Guidelines (ICT) in society and, especially, in the field of education, has become increasingly important importance and evolution in recent years in the Teaching learning process. The use of mobile device applications, also also called “Apps”, it offers an infinite number of benefits Apps are software applications specifically designed, offering a solution or determinate function for a problem, apps are installed on smartphones and tablets, since in these times both years, youth and adults have at least one smart phone. Many applications mobile cations are becoming hereditary key tools for teaching-learning of the students.



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Methodology



The type of study implemented for the project to be descriptive, cross-sectional and technological development, transversal since TIC has a foray across the education, it is a tool that play a substantive role in the generation, interchange, dissemination, management and access to knowledge I lie (Cobo, R. 2009, p. 312). The mobile application has a limited time estimated time of six months and the schooling are focused to develop for

For the basic requirement pedagogical information is necessary and there will be teachers from the English area high school as well as students of different grades, 12 students. It was chosen for reinforcing research with the focus qualitative, by showing the improvements with respect to with regard to the methods normally used in the classrooms with the student group before, the quality of the different materials and the availability of these as a key factor to be able to contrast the benefits of the application against traditional methods

The methodology to be used for the development of the mobile application will be SCRUM since provides to maximize the construction of the functionality of the object to be developed through of iterations with the customer, streamlining functional or priority changes without any trouble. Promoting motivation, compromise and innovation.



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Methodology



The English language is the most widely spoken in the entire world, because of that it has been called universal language, providing benefits

Identifying elements for level one. High School English

- Present Simple.
- Past Simple.
- Verb to be.
- Passive voice.
- Present Progressive.
- Past Progressive.
- Present perfect.
- Some / Any.
- Verb can.
- There is / there are.
- Possessive pronouns.
- Will / going to.



Design:

It was chosen to work with Android since most of the people in the country have this operating system on their smart devices. According to the requirements analysis, the categorization of the main topics in the application was generated, that is, the conclusion was reached of integrating the following aspects:

- ❖ Vocabulary.
- ❖ Verbs in their 3 forms.
- ❖ Didactic learning area (game).



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Methodology

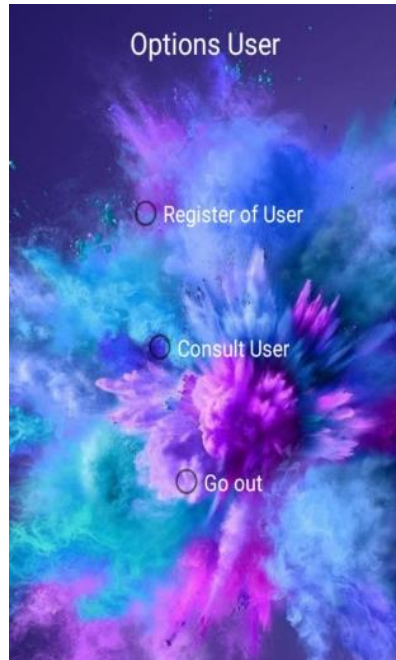


Image 1. User account creation

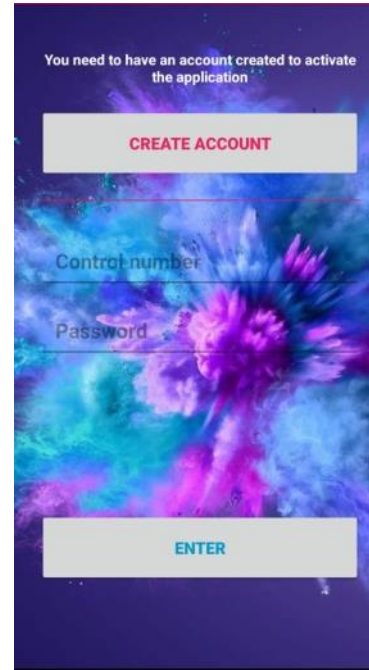


Image 2. User account option

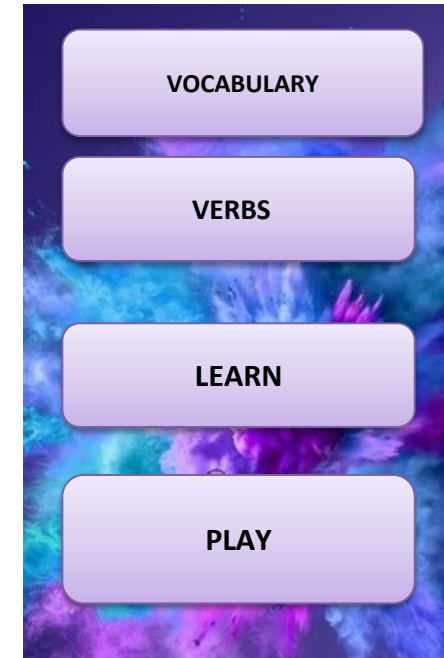


Image 3. User options menu

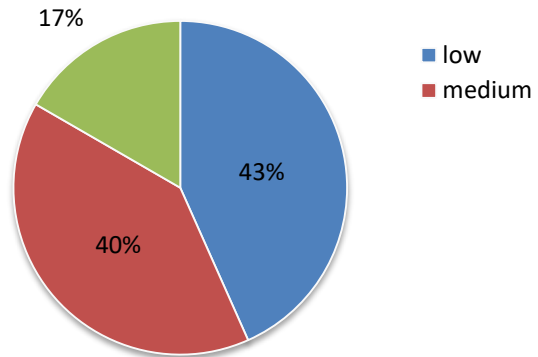


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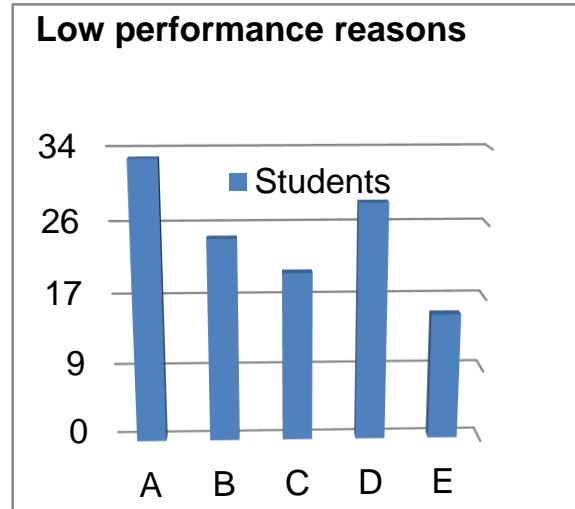


Results

What kind of level of English do you have?



Graph 1 English level of secondary school students.



Graph 2. Reasons for low performance in secondary school students.

Graph 2 shows the written statements of the interviewed students giving the following reasons for their poor performance:

- A.They only do it during the face-to-face class.
- B.It is not flashy for them to study after class.
- C.They do not understand the topics without guidance.
- D.Lack of review exercises.

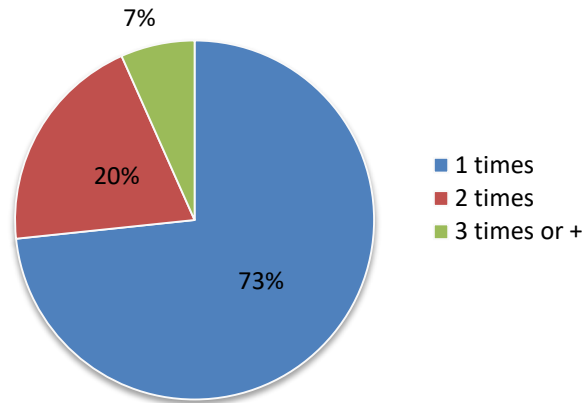


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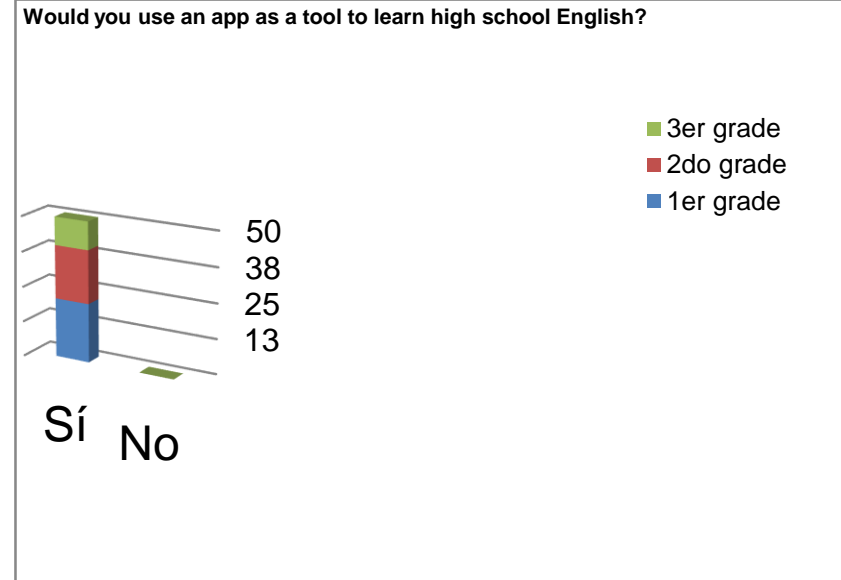
Results

How often do you study english per week?



Graph 3 Percentage of study per week by students

The number of times between 1 and 2 gives us 93%, a percentage that gives us the opportunity for the intelligent application to support them in learning the language.



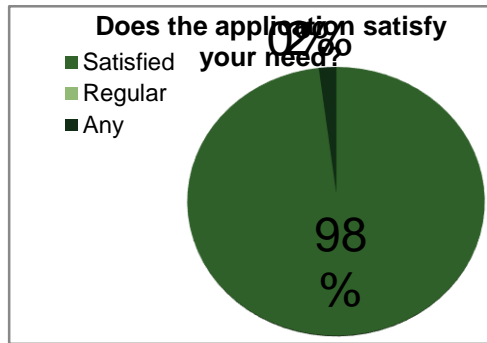
Graph 4. Acceptance of the use of an app p at the secondary level



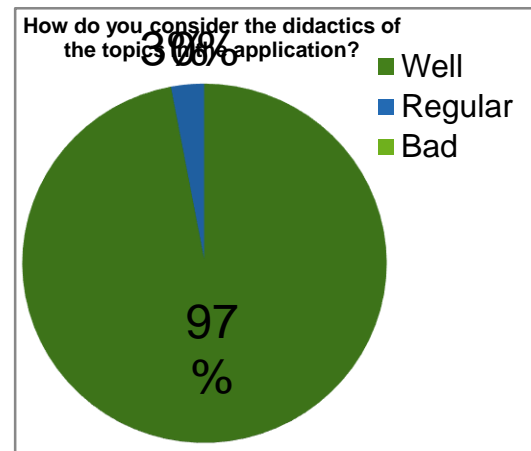
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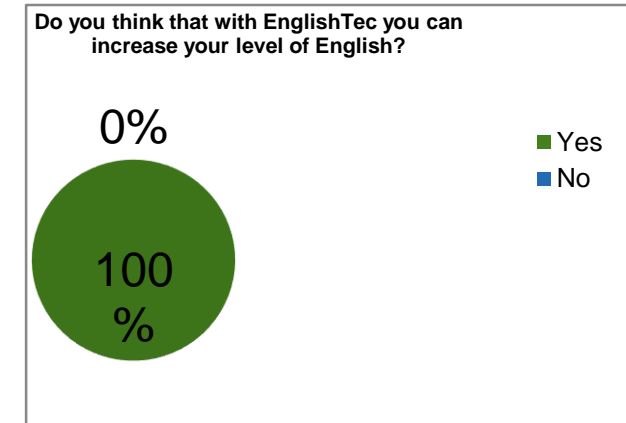
Results



Graph 5 Satisfaction in the use of EnglishTec



Graph 6. Percentage of students for the use of EnglishTec



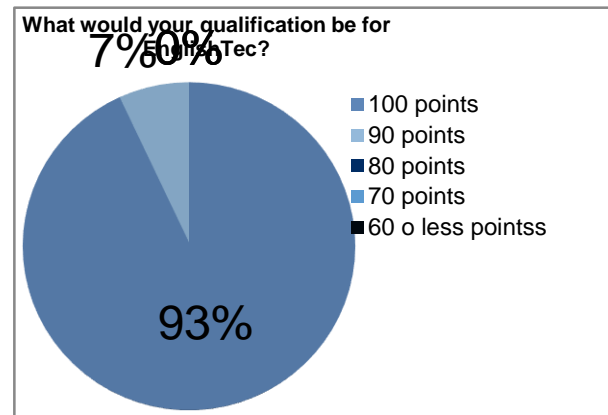
Graph 6. Percentage of students for the use of EnglishTec



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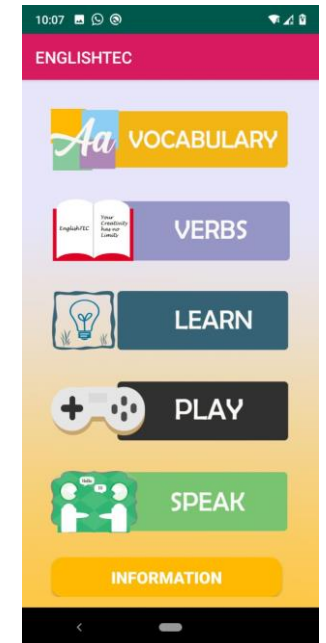
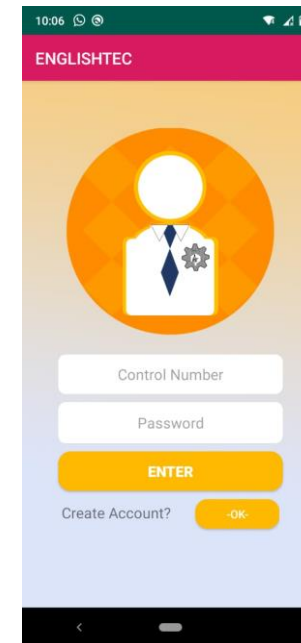
Results



Graph 9 Evaluation of EnglishTec by students



Image 4. EnglishTec Main Screen





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Conclusions

We can conclude with the statement that a mobile application ad hoc to secondary education is a powerful tool for the teaching-learning process. Accepting EnglishTec in the process not only satisfies the first year of high school, but the other grades as well. The use of technology as a didactic tool is important, to promote the development and knowledge of students, current generations have a very high degree of demand to capture their attention, technology gives us that possibility and in a playful way to teach and learn , generating a positive impact on the training of students.

The ENGLISHTEC tool helps to get to know and learn a new language, improving school, cultural and living conditions. The impact of EnglishTec, led to the acceleration of the web page creation process for Technical Secondary 49, in which an instructional design can be added (it is in the design phase) and that its student community as well as society must be informed of Truthful and timely manner, giving rise to the social inclusion of young people in a diverse way with valid tools, as well as educational processes that allow to support and strengthen the training of students at the secondary level.

Versions will be created for both second and third grade high school.



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