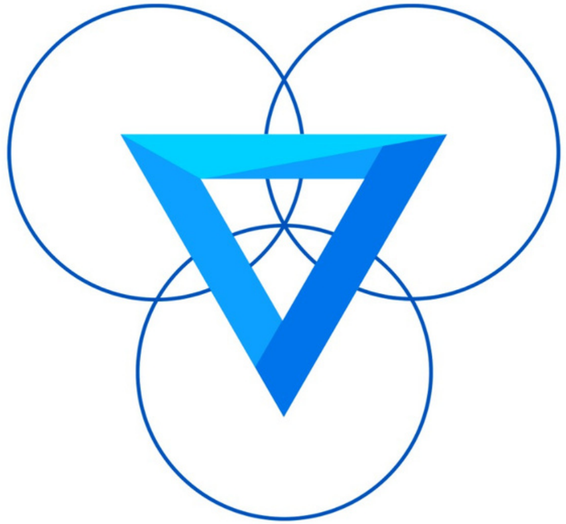
UNIVERSIDAD AUTÓNOMA DE YUCATÁN

Facultad de Matematicas

Subject: Fundamentos de Software

Teacher: Edgar Cambranes



Algebraintor

Team members:

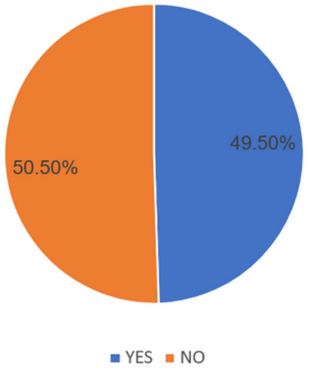
- *Aguilar Moreno Ashley Shaden*
- *Cadena Méndez Arturo*
- *Huerta Méndez César Alejandro*
- *López Delgado Osmar Jesús*
- *Pineda Alvarado Frida*
- *Reyes Martínez Miguel Ángel*

PROBLEM IDENTIFICATION

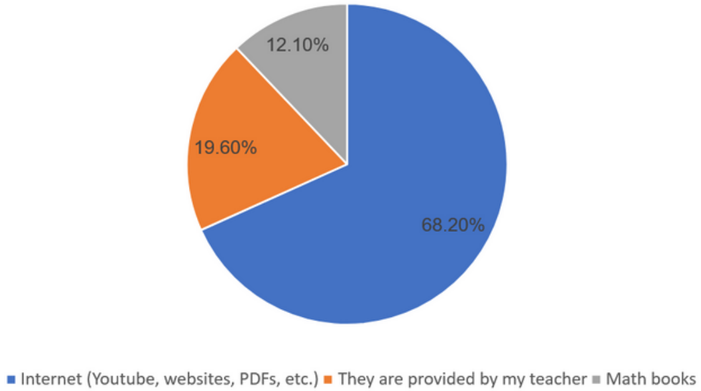
One of the biggest problems that students face when studying for their exams is that the exercises that appear in the search engines do not usually satisfy their needs: they are too easy, too difficult, they do not include the answer, among others. Even the simple action of searching in the web for the required material takes time that could be directly used for studying the topic of interest.

User Stories

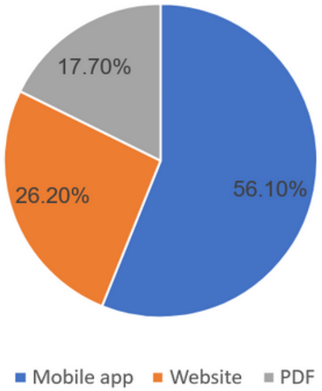
Do you consider looking for math exercises as an annoying task?



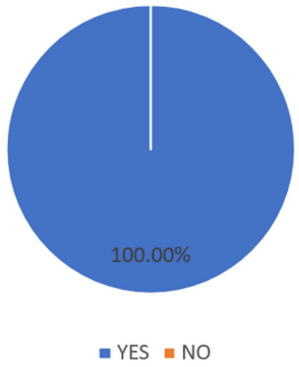
Where do you look for math exercises to practice?



Which of these tools do you prefer to practice math exercises?

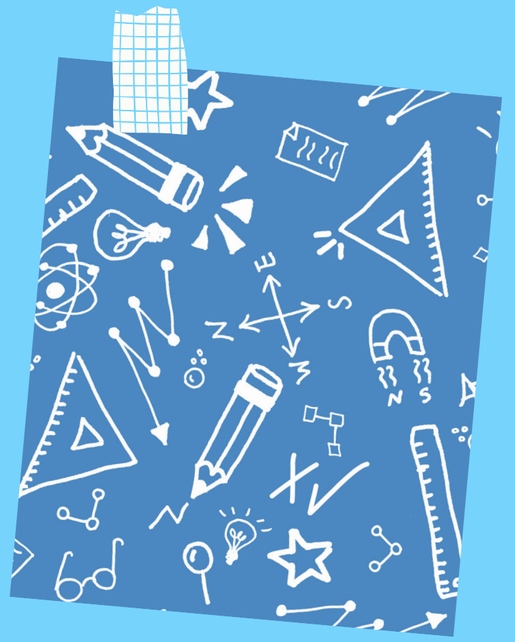


Do you agree that the best way to learn algebra is by practicing math exercises?



OBJECTIVE

Grant students access to a library of algebra exercises as a tool to practice several topics of basic-intermediate algebra.



USER PROFILE

Primaries Users:

High school and first semesters of university students

Potentials Users:

Teachers in the mathematics area

FUNCTIONAL REQUIREMENTS

User requirements

- The user will be able to register to the application by creating a username and entering their email and password.
- Upon entering, the user will access a list of topics of the basic and intermediate Algebra subjects and will be able to select one of them.
- Once the user has selected the topic, the user will be able to choose the level of difficulty: 1, 2 or 3.

System requirements

- ·The system will display a list of basic and intermediate algebra topics, as well as the difficulty levels of each exercise.
- The system will display the various exercises listed
- The application will have the exercises and their procedures available without the need to have an internet connection.

NON-FUNCTIONAL REQUIREMENTS

1. The application must be free and available for download in the Play Store in the Android operating system and in the App Store in the iOS operating system

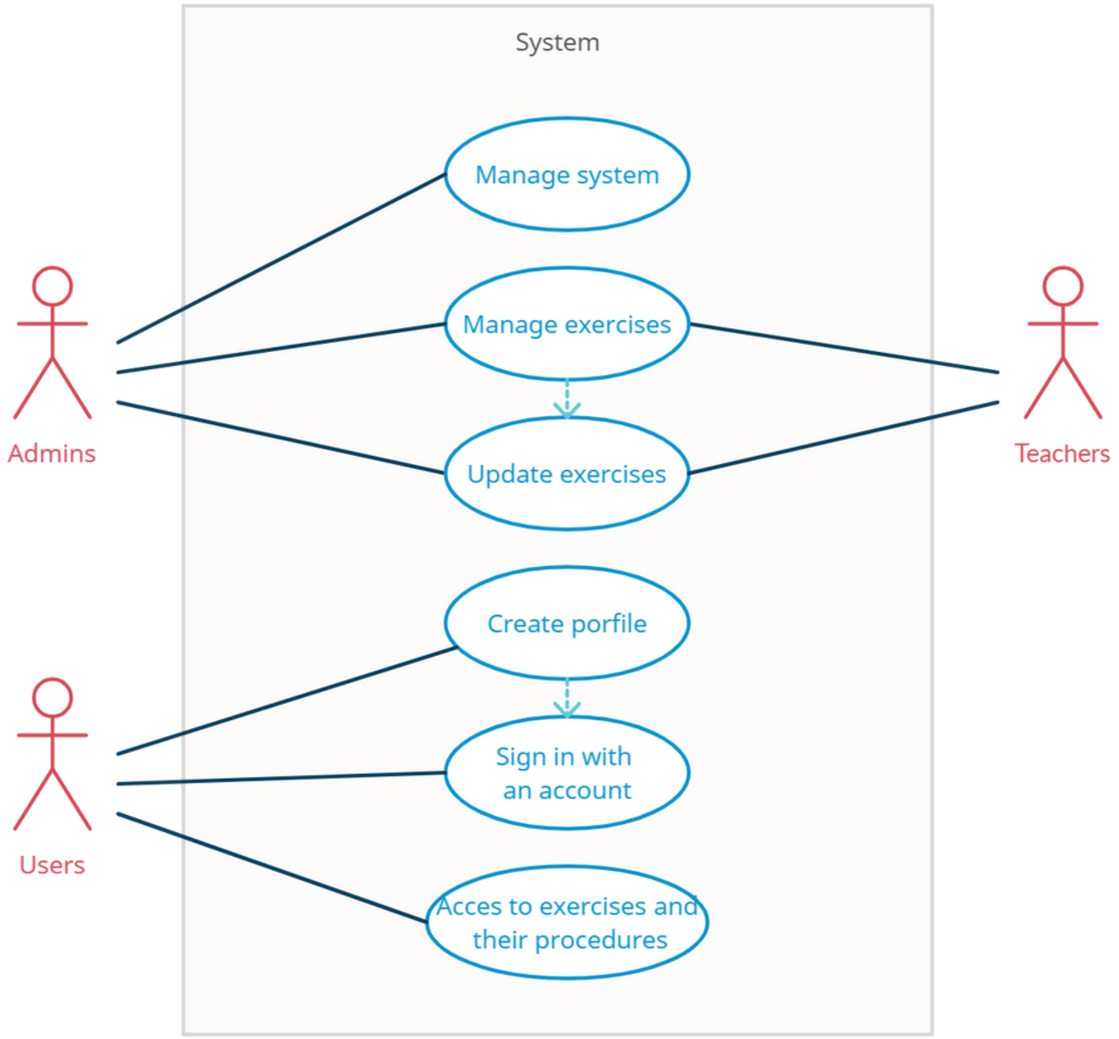
2. The app will only function in Spanish

1. The system interface is created with the aim of easy user understanding, in such a way that the user does not pose a major difficulty.

2. The system must differentiate between users with emails outside the institution and emails with the institutional domain

3. The application will send messages to the user's email in case of any need for identity confirmation and the novelty or system error.

CASE USE DIAGRAM

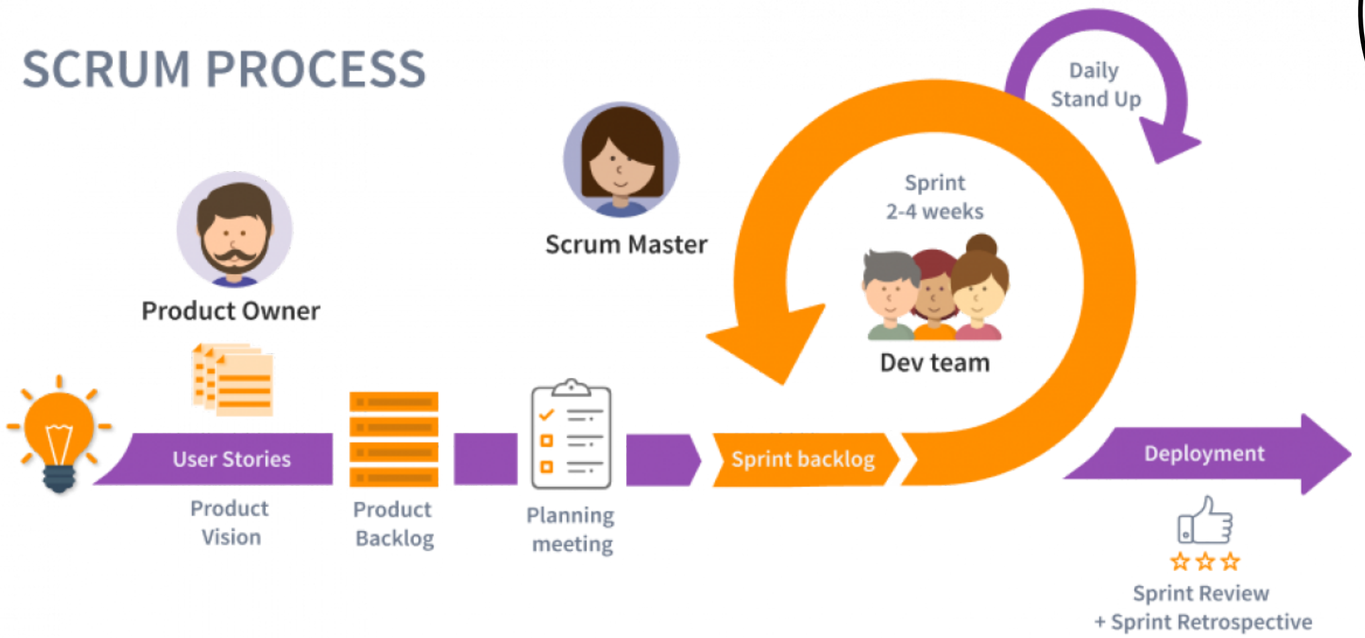


INNOVATION

There are many different ways to find exercises on the internet, but with our app it will be easier and more specific the content that the student wants, also there is no app or website where the exercises are divided into different levels.

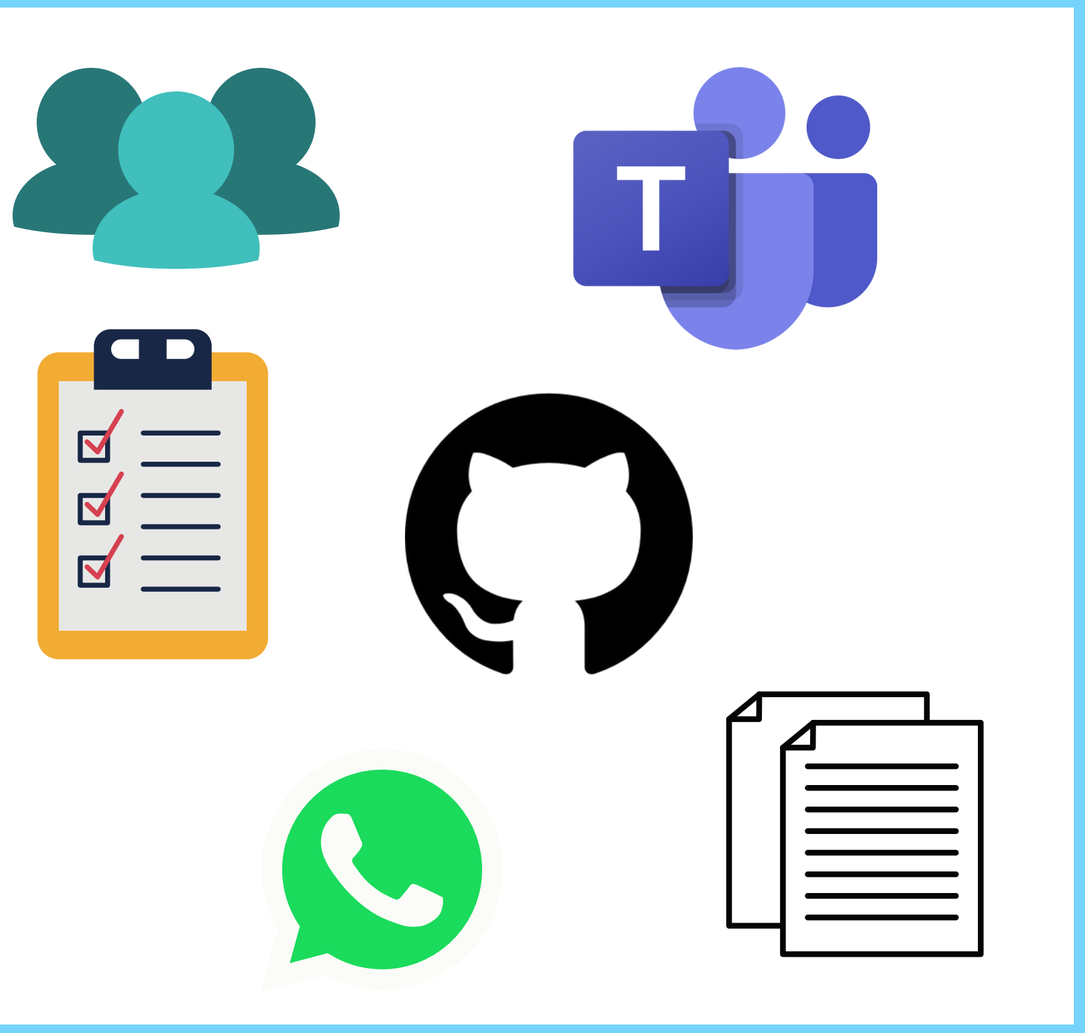
Process management

SCRUM



ACTIVITY MONITORING

- Face-to-face reunions
- Use of Microsoft Teams
- Reunion Logs
- Github repository
- Messaging apps



CONTIRBUTION METRIC

Accountables	Total	Completed	Average According to relevance	Attendance	Based on 16.67%	Based on 100%
Ashley Shaden Aguilar Moreno	11	11	21/21 = 100%	8	16.67%	100%
César Alejandro Huerta Méndez	11	11	21/21 = 100%	8	16.67%	100%
Osmar Jesús López Delgado	10	10	21/21 = 100%	8	16.67%	100%
Frida Pineda Alvarado	10	10	21/21 = 100%	8	16.67%	100%
Miguel Ángel Reyes Martínez	11	11	21/21 = 100%	8	16.67%	100%
Arturo Cadena Méndez	12	12	21/21 = 100%	8	16.67%	100%
Ponderation	10%		80%	10%		Out of 100%

SOFTWARE ENGINEERING

COMPETENCIES

Generics

Specifics

THANK YOU FOR YOUR ATTENTION!