



Instituto Tecnológico y de Estudios Superiores de Monterrey
Campus Estado de México

TC 2005B.402 Software Construction and Decision Making.

Group 402.

Beat Dancer.

Team Members:

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Deadline:

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Functional Requirements (UML and Use Cases)

- The user can create an account.
- The video game must save scores and results of the user's game time.
- The user will be able to check their performance and best scores.
- The user will be able to create a new game.
- The user will be able to save his game.
- The user will be able to load their saved game.
- The user will be able to delete his game.
- The user will be able to pause while playing

Non-Functional Requirements

- The video game must contain high security, as well as encrypt all the data that is generated from each user.
- The video game must have different languages.
- The user will have the option to store their information on any device as it is related to their profile.
- The user will have the option to configure the video game at their convenience.
- The user will have the option to access the online scores of other players to compare statistics.
- The user should know how to handle the game just by completing the tutorial.
- The loading time of the video game (create games, load levels, go through the different menus, etc.) must be less than 5 seconds.
- The game can be played any day.
- Its graphical interface will be friendly in terms of graphics and ease of use.
- The video game must run on any computer that has the established or recommended system requirements
- In the event of an error, maintenance must be performed as soon as possible.

Total hours invested: 200 hrs.

- Inception 20 hours
- Design 25 hours
- Construction 135 hours
- Testing 15 hours
- Release 5 hours

System Requirements

Because the video game is expected to be able to run on different platforms, it is necessary to have a basic knowledge of operating systems, these being Windows and Mac.

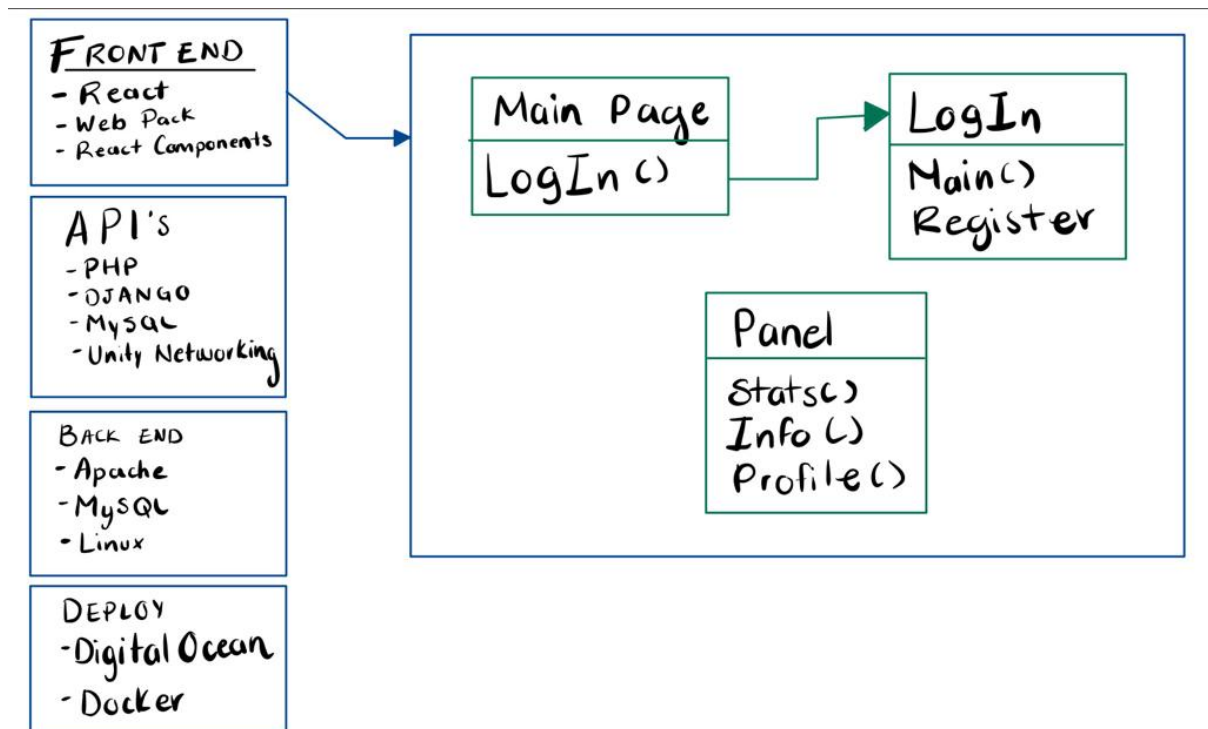
The video game will be designed to run with FullHD graphic quality, so the user must have a system and a screen that support these features to have a good user experience.

The system must have the possibility of connecting to the Internet, in order to access different services such as creating an account and being able to share your score on the

network. The specifications that we consider as minimum to have a good user experience are:

- Operating System: Windows 10, Windows 11 or MacOS Big Sur or higher.
- Processor: intel Core 2 Duo 2.7 Ghz, AMD Athlon 64x or higher
- RAM: 4 GB or higher
- Storage: 6 GB of available space.

Web Development:



Videos:

- Presentation: <https://youtu.be/FOOBiimgAyg>
- Gameplay: <https://youtu.be/a-c7eaZDVag>