**Project life cycle**

The conceptualization phase

In order to create this application, we firstly needed to understand the problem better by reading it multiple times in order to figure out the concept and foresee the flow.

We then had to decide which were the most suitable technologies for the implementation and we agreed to use Java as the main programming language, PostgreSQL for the database, GitHub for version control, Trello for keeping track of our tasks and other tools that were helpful.

The planning phase

After making sure that we all understood what we have to do, we installed the necessary tools for developing the application and we got familiar with them.

The team lead also constantly added tasks on Trello, while the whole team decided to whom to assign them as fairly as possible.

Diagrams were the next task we had to do. These were useful because it helped us understand the concepts organize the code. After we finished the class diagrams, we agreed that each of us works on least one diagram type, since we had to do use-case diagrams, class diagrams and sequence diagrams.

The execution phase

After finishing the diagrams we got the coding. Usually when developing a software application of such complexity implementation is the hardest part. However, we managed to do it pretty well and we did not have too much to worry about.

Our diagrams were so useful that the implementation has gone almost perfectly from the beginning. While a part of us worked on the back-end side, the others were developing the front-end part or testing, but we made sure to alternate these for each phase of the project.

We quickly fixed the bugs and warnings. We were lucky to have a team lead who reviewed our work at each step to make sure that everything is just right.

After the code was developed, it was tested so that we were sure that all the requirements were functional.

We then started to work on the documentation and on the presentation.

The termination phase

When every part of the project was done, we did a re-evaluation of it. We took a closer look at everything and got to the conclusion that we achieved our goals.