

Project Summary

In this project we worked in the “Top Down” approach, meaning we had to focus on planning and understanding the system before we could start coding.

We have learned that the technique for writing a program using top-down design is to write a main program (main method) that calls all the other methods it will need.

In other words, if we have a big problem to solve, then a very effective method of working towards a solution is to break it down into smaller, more manageable problems.

When we first heard what needs to be included on our system, and the requirements we had to achieve, it almost seems impossible to finish this project on such a short time.

We learned that methods can simplify a program by hiding a complex computation behind a single command.

Our first layer is the REST API, an interface which handles HTTP requests, sent from our client. This interface knows how to read and process JSON files, as well as generating and returning them as responses to requests.

The second layer is the business logic layer. This layer handles java objects that are being sent to it, and then sends them back when finished.

The third layer is the DAL - Data Access Layer, which provides simplified access to data stored in database management systems.

While designing and implementing the code for our project, we tried using code reuse, also called software reuse, a common technique which attempts to save time and energy by reducing redundant work.

We really enjoyed the experience of working in the agile approach, the idea of splitting missions of a big projects into smaller iterations we call sprints, and the whole process of working together and sharing our progress inside our team.

If we had to start the project today after we have finished the course, we would definitely start working on the client earlier than we did now. At the end of the project we worked on the client instead of adding more functionality to our project. We must say that it was important to do the client, it teaches us a lot about integrating between server and client, but it did take a lot of time.