**Architecture**

It is very important to select technologies that allow flexibility, scalability and maintainability in the application that is going to be developed. Also, it is fundamental to choose tools that have a considerable time since its release, since they will have more documentation and stronger development communities, this is going to allow the developer to feel more secure when having issues and solving them.

This software will be divided in three parts, the database, the backend or server, and the frontend or client. This division will increase the flexibility of the application and its security. This also allows an easy maintenance since each part is going to be separated, and it will be easier to detect where the flaws are if they exist.

**Database**

For the database I selected MySQL, since it is a very well-known database, It is a relational database, this will allow the data to be stored and organized easily. MySQL has a lot of libraries in different frameworks so connect it to an API will not be a problem.

Backend/Server

In this part of the application, I think it is a good choice to go with Node js. Node js is also very well known, this tool will increase the scalability of the system since it is very efficient. There is a lot of projects using this technology, so documentation and references won’t be a problem.

**Frontend/Client**

React js is a very popular library that allows an easy maintainability for the frontend, it will also reduce the difficulty when programming the app, thanks to de use of components and hooks. It can also be complemented with the use of bootstrap, a library that will simplify the visual aspects of the page.

**Security**

This aspect is fundamental for every system, to increase the security I recommend creating a part of the server that generates a token, which will be used to validate the requests made by the client, this will not aloud external requests to the server, just the ones made by our application.

**Additional Recommendations**

I suggest using pagination in the database when displaying the information in the tables, this will increase the efficiency of the system, since only the necessary information will be requested to the database.