Technology

This project is based on the code from the previous GA team.

Decision

Backend

Our team decided to use the provided backend code, which is based on `Springboot`.

We have made some changes to the previous code in terms of the backend.

The following file has been edited in the controller section which interacts with the front end:

- `ActivityDao.java`
- `ActivityDaoImpl.java`
- `ActivityService.java`
- `ActivityServiceImpl.java`

And the following two files are implemented to receive data from Garmin Connect:

- `Activity.java`
- `ActivityDetails.java`

We also add *user tokens* to improve account security with the change of the following files:

- `LoginController.java`
- `UserDao.java`
- `UserDaoImpl.java`

Frontend

The previous project used the `React` framework, which is not familiar to us and does not fit with the skill set of our team.

And the previous frontend code does not implement any input validation, and the password is transmitted in plaintext.

Thus, for both reasons above, our team decided to create a new frontend to improve the encapsulation by using reuse plan,

and the `VUE` platform is used for that. The unit-jest framework is to test units of codes.

Database

We will keep use the `mongoDB` for data storage of this project.

Technology Stack

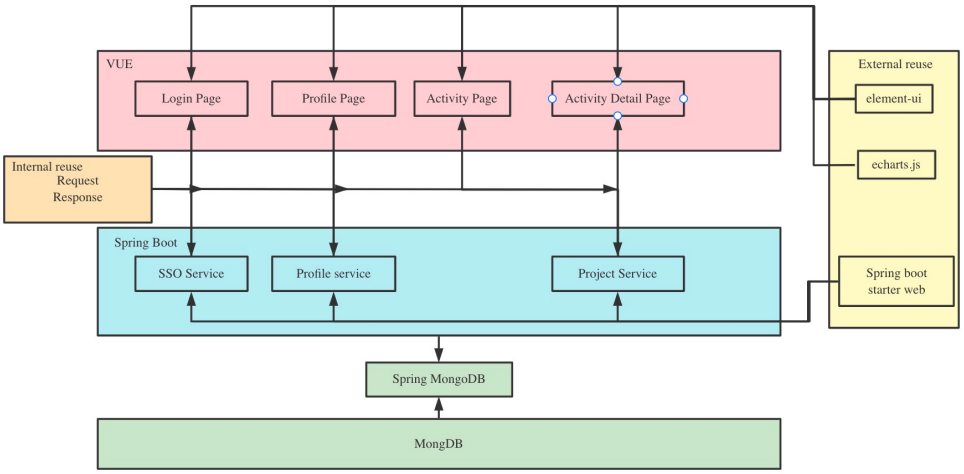

Figure.1 GA-BoxJelly Project Tech Stack

- Back-end: Spring Boot

- Front-end: Vue
- API Document Generation: Swagger
- Data Storage: MongoDB
- Deployment: HerokuApp

Development Environment

- Back-end: JDK 1.8
- Front-end: node v14.17.6, react 16.9.34