**Backend Description**

The APIs in this project are responsible for making secure transaction between the Servers and Clients. In other words, they handle Back-end to Front-end communication.

The version 1.0 of the TopFit application has functionality to record and store user activity based on GPS. Users can modify and delete any information associated with their account. TopFit version 1.0 is equipped with the administrative tools to manage user accounts.

**Database**: Storing user data securely is the top-level priority in the development. Not only it provides positive user experience but also enables developers to manipulate the data and later release an improved version of the application with additional functionality.

TopFit is going use three separate database tables for Authentication, Users Information and User Statistics.

Database operations will be performed with MySql for two reasons. The first is that it is open source, the second is that all group members are familiar with it.

**Back-end** for version 1.0 is include classes and methods that are going to provide a suitable environment for the necessary calculations.

**Class examples**: User, Activity, AdminUser, Notification, Connection, GPS.

**Method example**: lastNotice(), nextNotice(), changePassword(), startActvity(), stopActivity(), clearHistory().

Java will be used to for back-end coding and as it was mentioned before, APIs will help connect to the database and decouple the back end.