

Design Document for Habit Tracker

Group rp-07

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Each Member worked on the Java doc of their classes.

Zahydee and Yuichi worked on the backend API documentation as well.

PUT THE BLOCK DIAGRAM PICTURE ON THIS PAGE! (Create the picture using lucid chart)

We are going to attach the diagram as a pdf file separately because it was not possible to take screenshots of it and make it readable

Use this third page to describe complex parts of your design.

Our design consists of three major modules, the frontend, the communication between the frontend and backend and the backend. All of the activities that are used in our project are stored under View Thread and Activity Classes. These Activities classes can then either call modules, helpers, or communication classes to do work for them. This helps separate classes that are used to make changes to the user interface from other classes that use computing logic and communicate with our backend code. Our modules and helpers consist of classes that are being used to create and compute different logic for our program. These classes are used to create and manage objects like our Projects, Habits, Skills, and Stats. Communication methods in our diagram are the connecting methods that retrieve and send information from the backend to be used in the frontend. Our project's primary mode of data storage is within JSON files stored in backend databases.

The Springboot backend can be identified by the box on the right side of our diagram. From it we can see the communication methods exchanging information between the backend and frontend. Our backend controllers consist of a login controller, userfile controller, and stat controller. All of these are used to manage different databases within our backend. The databases that our backend consists of are login_info which is used to store user login information, user_files used to store general information about a user including their Projects, habits, and skills, and our stats database is used to keep track of the amount of individual statistics for each user.

PUT THE TABLE RELATIONSHIPS DIAGRAM on this fourth page! (Create the picture using MySQLWorkbench)

