Design Document for **Splask**

Block Diagram & Tables

COM S 309

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Group 1_MC_3

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Block Diagram

Project: Splask
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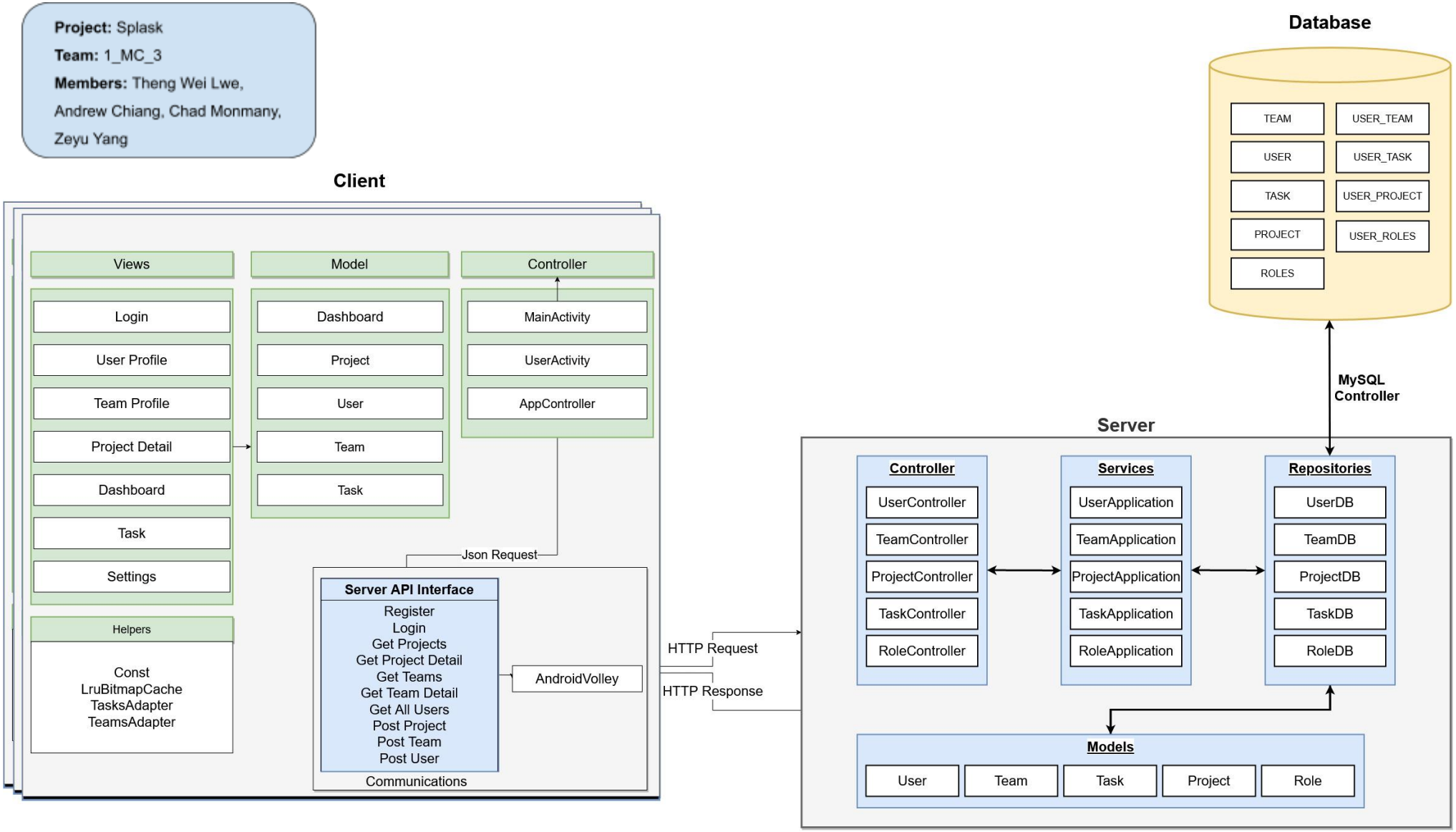

Design Description

Frontend:

Android View

The android application contains many views that the user can navigate through to operate the application. The layout and structure of the views are stored as XML files. The views are used and populated in Activity classes. These activity classes contain functions to help handle on-click events and some other basic user input. Fragment classes are also utilized to help create reusable user interfaces (such as displaying a list of items).

Data/Model

The application contains several data classes which are used for storing objects and maintaining organized data structures. This allows data to be easily modified, stored, and retrieved. The design structure of the code allows a more unified way of storing and accessing table data that is sent from the server.

Controller

The MainActivity class handles the majority of the frontend processing. It handles the application's major functions such as the dropdown menus, project/team creation, and task assigning. The application has helper classes such as the AppController to handle redundant processing (Volley Requests).

Backend:

SpringBoot Controllers:

The main feature of the Spring Boot Controller is that it allows us to communicate with the frontend by connecting to the server through HTTP connections. It also connects to the repository, allowing a faster rendering of information requested by the user with the specified methods of the application. By using specific methods, it reduces the running time of the search in addition to the accuracy of the information retrieved.

SpringBoot Model

The main feature about the Spring Boot Model is that it gives us permission to access and implement the essential features of our database. On the other hand, as for implementation, the user (frontend) can create a new Task for a Team which then would create a new relationship table containing both tables unique id, this will create the connection between the assigned task to the proper team.

Spring Repository

The main feature of the Spring Repository is to store the JSON elements sent by the user from the frontend and it allows us to store that data and retrieve it when needed.

MySQL Tables and Fields