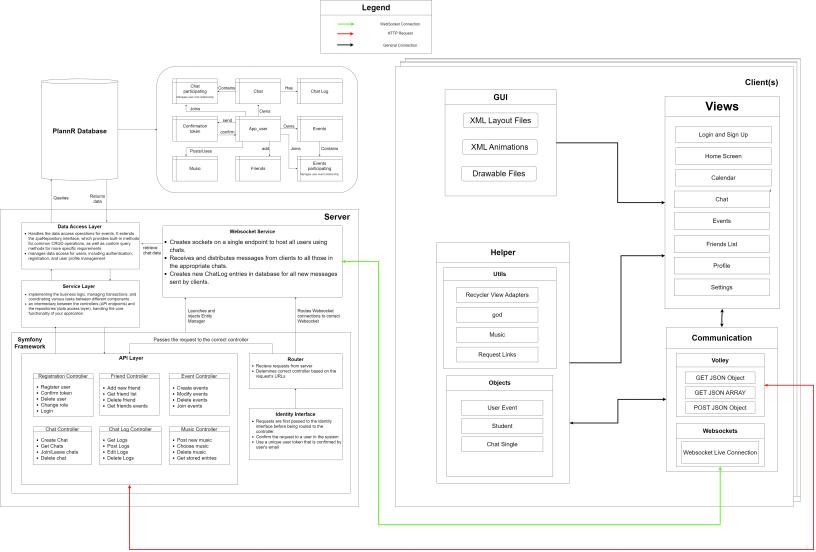
Design Document For MeetR

Group 2_TZ_9

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Separate Link for Diagram

Design Description

User:

The user interacts with the views in our application. The primary way that users navigate between the main views is using the navigation bar. The views handle user input and display information to the user, occasionally getting or sending information to the server. This is done via the use of Volley requests and websockets. One way that Volley requests are used is Login, which takes the email and password that the user enters and sends it to the server using a POST request. The server then returns whether or not the user is registered. Websockets are used for client to client connections especially for the chat application that allows users to interact with each other and discuss plans in real time.

Server:

Managing requests and hosting our backend code, the server provides a method of communication between clients and the database, using Apache to host the server. The backbone of the communication consists of various REST controllers, which are able to handle HTTP requests that are made using Volley on client machines. These controllers use various logic to retrieve information from the database using Hibernate and return information to be used client-side. To host the communication with the database, we use CRUD/Jpa Repositories in the backend to allow our REST controllers to be interpreted to SQL queries using Hibernate. The queries facilitate various requests to be processed and stored, such as GET, POST, PUT, and DELETE requests that users will need to make throughout use of the app.

Database:

The database hosts entries for each entity used in the project, including various data fields for the chats, events, music, profile pictures, and app users. These data fields include information such as when and where events are, chat logs that are sent in each of the chats, music titles and filepaths that are hosting each individual song, and many more. Furthermore, the nature of our project contains many complex relationships between the various aspects, including Chats, Events, and Music. Using SQL tables to maintain and store the relationships is key, and having the intermediary tables connecting users joining and participating with chats and events is very important for opening and managing the events and chats during frontend-backend communication.

