
Design Document for **Flushd**

Group **2U-G1**

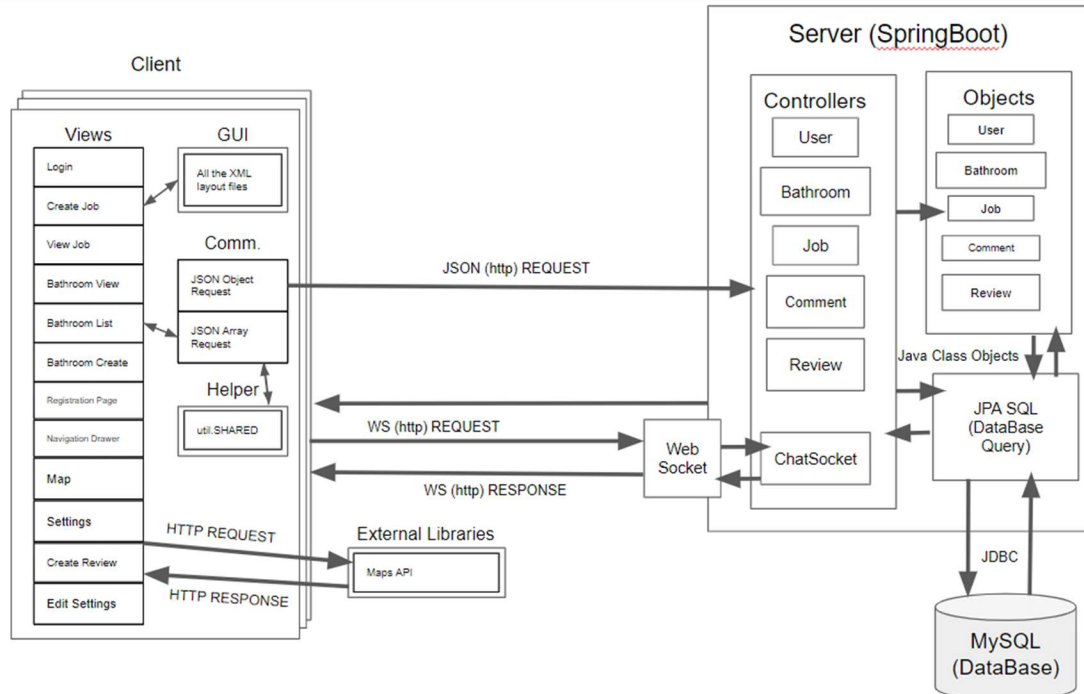
Aren Ashlock: % 25

Derek Brandt: % 25

Akash Setti: % 25

Jack Teller: % 25

Flushd
2_UG_1
Jack Teller
Aren Ashlock
Derek Brandt
Akash Setti



Frontend (currently implemented)

CreateAccount (User, Maintenance)

- Creating an account takes in the following fields
 - EditText: First Name
 - EditText: Last Name
 - EditText: Username
 - EditText: Email
 - EditText: First Name
 - EditText: Password and PasswordCheck
 - Spinner: AccountType
- Clicking the "Create Account" button sends a JsonObject POST request to the server and also serves as the logging in procedure for the newly created account

BathroomList

- Generates a RecyclerView Adapter with ViewHolders containing the following fields
 - Building
 - Floor
 - Gender
- We obtain these fields via a JSONArray GET request from the server

Backend

Controllers – Controllers are responsible for interpreting the HTTP requests sent from the front end. After it maps requests, the controllers call JPA for database.

- User – Contains the mappings for login, registration, getting users, and account maintenance. Sends requests to the User, Job, Comment, and Review Table
- Bathroom – Contains the mappings bathroom creation and getting bathrooms. Sends requests to Bathroom Table.
- Job – Contains the mappings for job creation, getting jobs, and linking jobs. Sends requests to Bathroom, User, and Job Table.
- Comment – Contains mappings for comment creation, getting comments, and linking comments. Sends requests to Review and Comment Table.
- Review – Contains mappings for review creations, getting reviews, and linking reviews. Sends requests to Bathroom, User, Comment, and Review Table
- ChatSocket – Responsible for mappings of each bathroom's sessions-username map. Handles websockets.

Objects – Store table information in Java's Object format. This allows the controller to make calls on objects instead of SQL calls.

JPA – An API used to make JDBC calls to a MySQL server that holds the database for all our tables. We have tables for Users, Jobs, Bathrooms, Comments, and Reviews.

