Design Document for Flushd

Group 2U-G1

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Graphical user interface

Description automatically generated

**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.

A picture containing diagram

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