

# eDesign Document for <<Flat Finder >>

Group <JK-222>

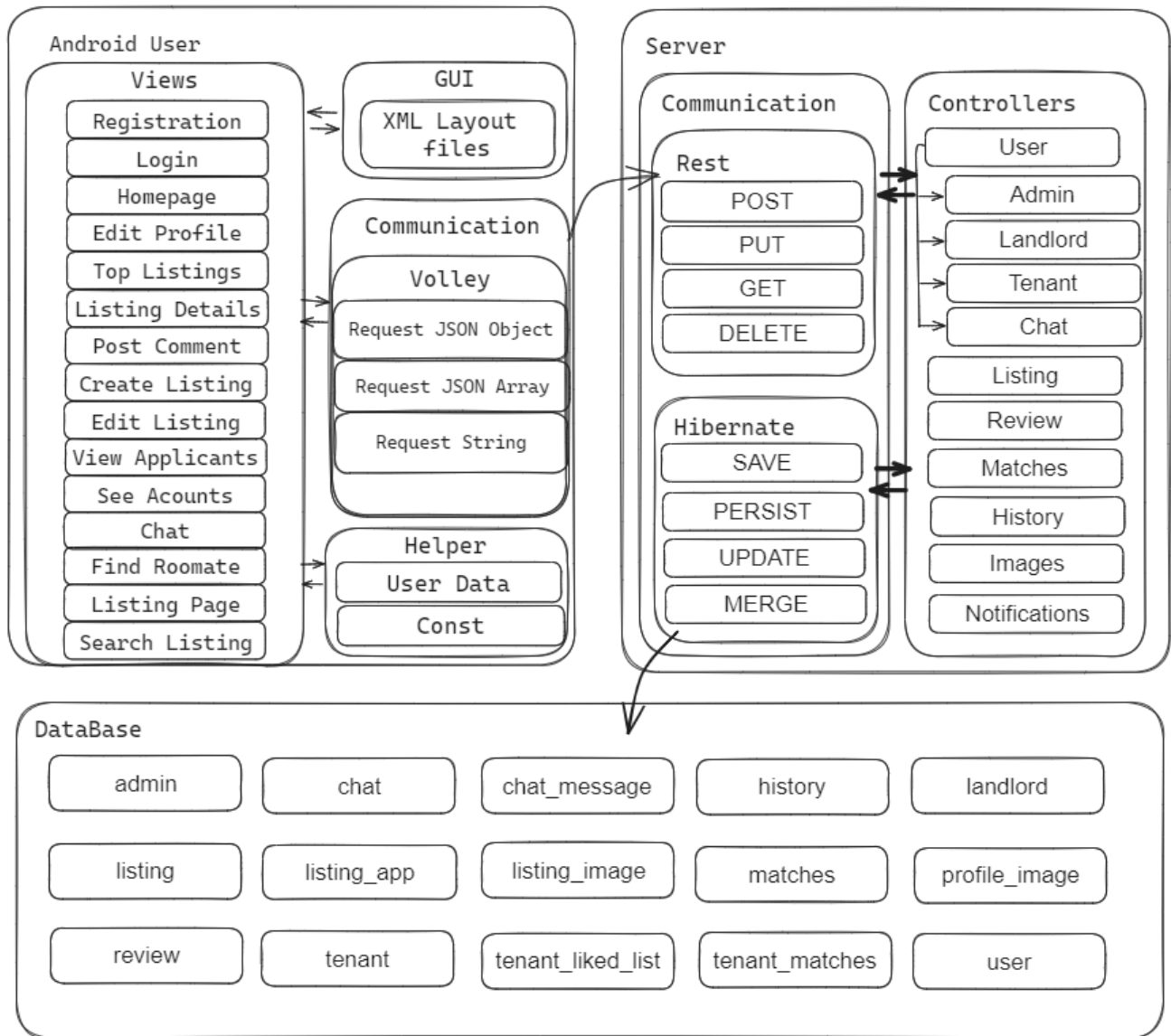
Sullivan F: 25% contribution

Tyler V: 25% contribution

Carter P: 25% contribution

Brandon M: 25% contribution

PUT THE BLOCK DIAGRAM PICTURE ON THIS PAGE! (Create the picture using pencil or drawIO)



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

Registration (User) - Creates a new account when Create button is clicked

Always takes – Name, Password Email

For Renter takes – Price Range, Location, Pets, # of rooms, # of bathrooms

Login button takes user to the login page

Login (User) - (Starting Page) Log in to your Account when Submit Button is clicked – Goes to homepage

Takes – Name and Password

For Renter – Finds Roommate Recommendations to display on homepage

Sign Up button takes user to Registration page

User -> User chat (Any User) – Implements a WebSocket to allow users to chat with one another.

View Notifications (Any User) - Implements a WebSocket so users can view notifications immediately.

Things like application requests/responses or pending chats

Edit Profile (Any User) - Update the information for your page

Takes – Same info as registration, but only changes data fields that have an input

Leads to Login Page only

Homepage (Renter) – Buttons leading to other pages

List of roommate recommendations, each has a button navigating to “Other Tenant Details”

Other Tenant Details (Renter) – Shows details pertaining to one other renter, navigates to chat page

Recommended Listings (Renter) - List of recommended listings

Each listing containing buttons for like, comment, and navigation to “view listing details” page

View Listing Details (Renter) - Shows details pertaining to one listing including image

Navigation to apply to listing

Apply to Listing (Renter)- Sets an application flag connecting the user to that listing

Sends notification to Landlord to “review application”

Homepage (Landlord) - Buttons leading to other pages

Create Listing (Landlord) - Allows landlords to post listings

Review Applications (Landlord) - Allows landlords to approve or deny applicants to their listings

## **Backend:**

### **Communication:**

The backend of our application uses REST api and CRUD operations to allow the frontend to communicate with the database. These operations include:

POST: Send information and parameters to create an item to be stored in the database.

GET: Receive information about a certain item that is specified upon request.

PUT: Send information to update an already existing item in the database.

DELETE: Request an item to be removed from the database.

### **Controllers:**

The controllers contain the URLs and mappings that allow the frontend to communicate with the database given the URL. Our controller include:

CHAT: Controls the WebSocket that allows for users to communicate with each other while using the app.

IMAGE: Allows the front end to retrieve images that are stored in the team server.

LISTING: Lets landlords create and manage their listing to advertise to tenants.

NOTIFICATIONS: Controls the WebSocket that allows for notifications to be sent to tenants and landlords, i.e., tenants are notified when rent is due.

REVIEWS: Handles reviews that are published by tenants when reviewing a landlord or listing,

USER: Provides basic functionalities for all users that may be present on the app including landlords and tenants.

TENANT: Allows for additional features specific to tenants such as listing preferences.

LANDLORDS: Allows for additional features specific to landlords such their listings and reviews.

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

