# Block Diagram for R8MyApartment

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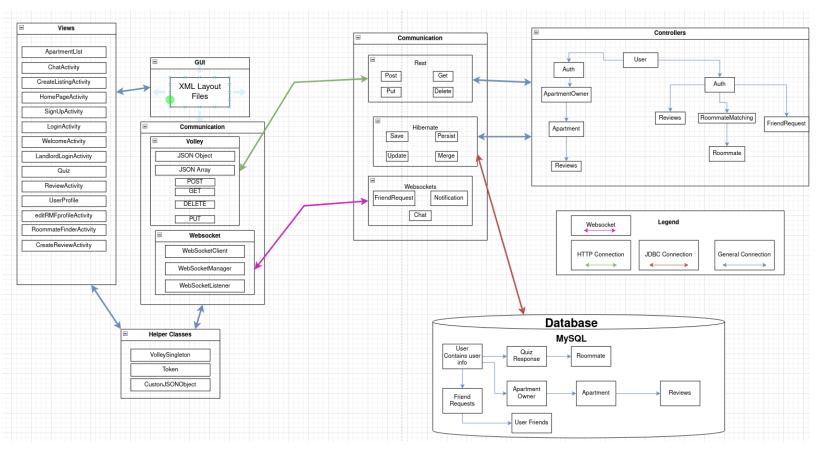
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# **BLOCK DIAGRAM SCHEMATIC**

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



#### **Frontend**

SignUpActivity(User, Landlord)

• For user signup, the user is prompted to enter information for the following fields:

o EditText: FirstName

EditText: LastName

o EditText: Email

EditText: birthDate

EditText: phoneNumber

o EditText: password

o EditText: confirmPassword

o button: sign up

- At the end of these fields, there is a button labeled, sign up. Once this button is pressed,
   'SignUpActivity' takes this information and forms a JSON object that is then sent to the server using a POST request.
- Landlord signup is a lot more simple, it only requires an email and password. Once these
  are entered then it sends a POST request to the server attempting to add the user to the
  database.

*Login(User, Landlord)* 

• If an attempt as user is made, the following elements are shown:

o EditText: username

o EditText: password

o button: login

- Once the login button is pressed 'Login' takes the information that was just entered and
  makes a POST request to the server. The server then takes this post request and returns a
  successful response if the user exists.
- If an attempt as a landlord is made, it is the same process as above except the landlord uses email as a parameter instead of the username. So, this one creates a POST request to the server with the email and username of the landlord attempting to sign in.

Quiz(User)

• If the current user is attempting to look for roommates, they are required to take a roommate finder quiz. When the user goes to take the quiz the following is presented with a scroll allowing users to choose 0-10 on their preferences.

SeekBar: hostingBar

SeekBar: petBar

SeekBar: smokingBar

o SeekBar: organizedBar

SeekBar: guestsOverBar

SeekBar: noiseBar

o SeekBar: cleanlinessBar

o EditText: desiredUsername

o button: submit

• Once the button is pressed the 'Quiz' takes the results and the entered username to create a JSON Object that is sent to the server as a POST request. The server then stores this in a quiz\_responses table to be called upon.

#### **Backend**

#### Controllers:

The controllers allow for communication between our frontend and backend. Our controllers include the following:

### - User Management

- User Controller: Has endpoints for all CRUDL operations for users.
- Auth Controller: Takes username and password from a post request and checks whether the username matches the entered password in our database.
- Profile Controller: For our roommate profile feature, this has endpoints for all CRUDL operations.
- Security Controller: Our security controller allows certain endpoints to be accessed only by our front end and no third party.

# - Property Management

- Apartment Controller: Contains endpoints for creating apartments, editing, deleting, and listing apartments. Note that not just any user can create an apartment listing, they have to have an apartment owner account to create a listing.
- Listing Controller: Listing controller will list all apartments with their associated reviews. Also contains all CRUDL operations.
- Review Controller: Contains endpoints for CRUDL operations for reviews. A review cannot be created unless that apartment name is within the SQL database.
- Property Owner Controller: This contains all the CRUDL endpoints for the property owner account.

#### - Roommate Features

- Roommate Controller: Contains endpoints for all CRUDL operations for roommates.
- Matching Controller: Endpoints for
- Quiz Controller: Has endpoints for all CRUDL operations with our roommate quiz.
- Compatibility controller

#### - Websocket Controllers

- Chat Server
- Friend Request Server
- Notification Server
- Websocket Configuration

# **MYSQL TABLES**

