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## **Design Document for Konnect**

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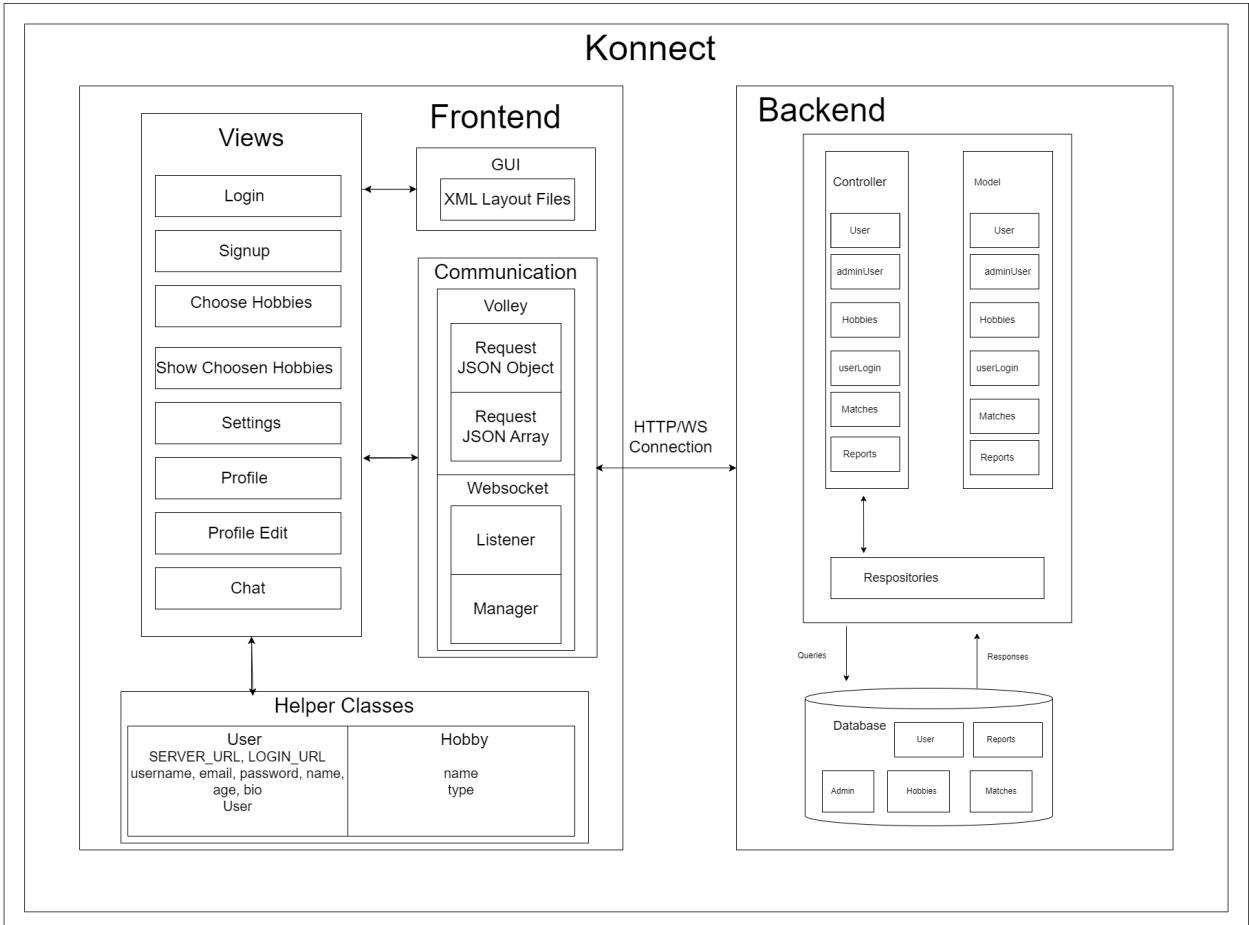
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## Frontend

- **SignupActivity (User)**

- SignupActivity generates a page with the following elements:
  - EditText: UserID
  - EditText: Password
  - EditText: Confirm Password
  - EditText: Email
  - EditText: Name
  - EditText: Age
  - Spinner: Gender
  - Button: Date of Birth
  - Button: Login
  - Button: Signup
  - Button: Home
- Upon clicking the button 'Signup', the values of the UserID, Password, Email, Name, Age, Gender, and Date of Birth are sent as a POST request to the server.

- **LoginActivity (User, Admin)**

- LoginActivity generates a page with the following elements:
  - EditText: UserID
  - EditText: Password
  - Button: Login
  - Button: Signup
  - Button: Home
- Login Screen takes user input of their username and password, and if that username and password is valid, it will take the user to the SettingsActivity, where they are logged in as that user.

- **ChooseHobbiesActivity (User)**

- ChooseHobbiesActivity generates a page where the user can select their hobbies. The selected hobbies are then sent to the server.

- **ProfileActivity (User)**

- ProfileActivity displays the user's profile information. It shows the user's Name, Username, Email, Bio, Gender, and Birthday.

- **ProfileEditActivity (User)**

- ProfileEditActivity allows the user to edit their profile information. It has the following elements:
  - EditText: Name
  - EditText: Username
  - EditText: Email
  - Button: Save

- Upon clicking the button 'Save', the updated values of the Name, Username, and Email are sent as a POST request to the server.
- **ChatActivity (User)**
  - ChatActivity is for individual chat. It has the following elements:
    - EditText: Send Message
    - TextView: Receive Message
    - Button: Send
    - Button: Home
  - Upon clicking the button 'Send', the message in the 'Send Message' EditText is sent to the server via WebSocket. The received messages from the server are displayed in the 'Receive Message' TextView.

## Backend

The database is updated by the backend using mappings in response to data delivered to the specified

URLs of the mappings. Among them are:

- Post: email details about a piece of content to be entered into the database.
- Get: make a request for data, frequently together with an identifier for the particular object you're looking for in the database.
- Put: transmit data to update a particular database entry.
- Delete: To remove a particular item from the database, give an identifier, and password.

User: Main user, stores different information that identifies the user, has relationships like:

- Many-to-Many: Hobbies
- One-to-One: matchID, UserLogin
- One-to-Many: userReports, UserMatches (uses an algorithm to find the best possible matches)

## UserAdmin

- One-to-One: UserLogin (connected by username)
- One-to-Many: AdminUserActivity

