

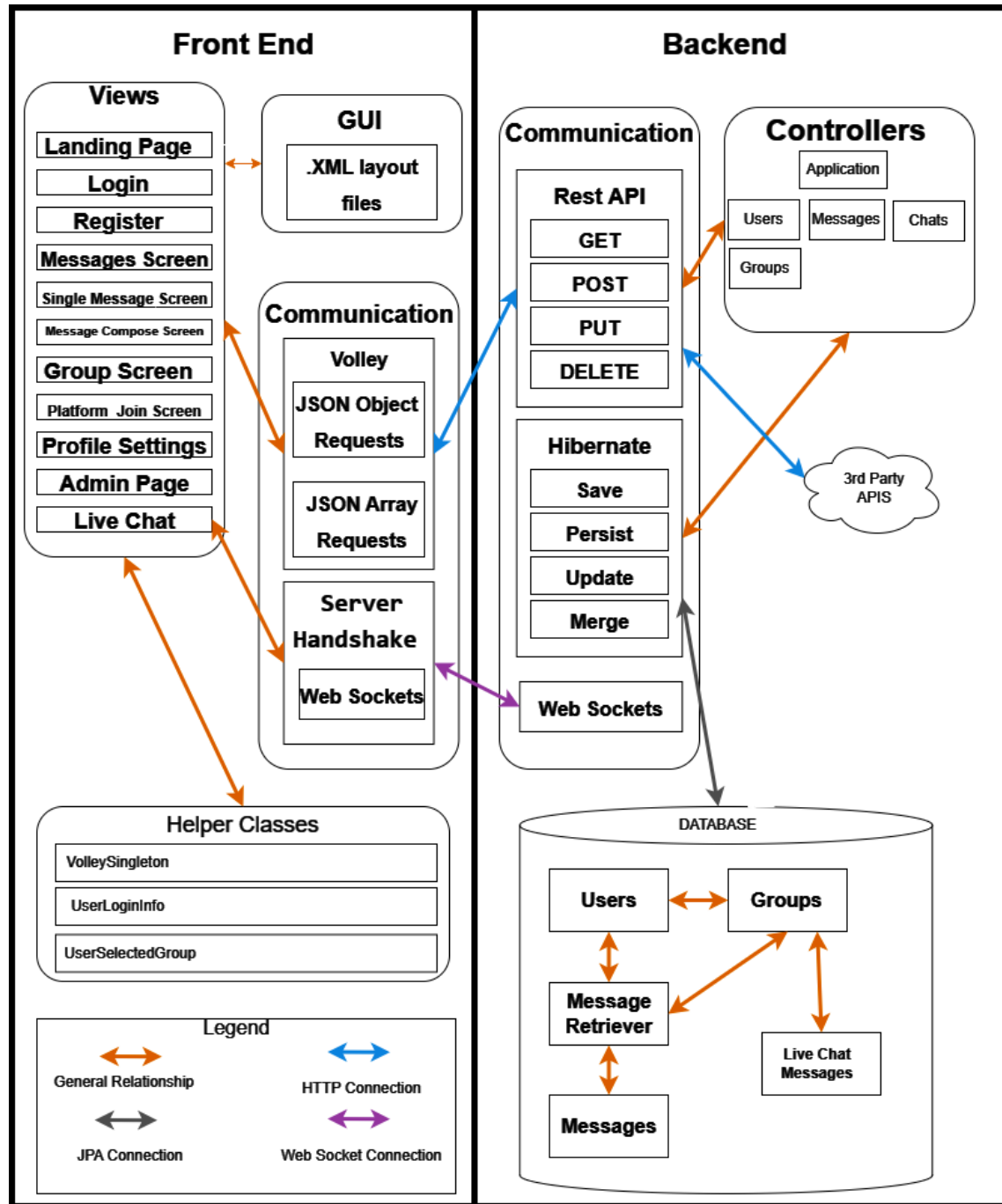
Block Design Assignment

Group 312

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Block Design Diagram



Design Description

Backend

Our backend design is built around four controllers

1. The first controller is the User controller, it contains the API endpoint needed for creating and interacting with accounts without service. When using the front-end application, the first option presented is to register or log into an account. The User controller is also responsible for holding the endpoint, which provides the list of Groups a User is in
2. The second controller is the Message controller, which handles providing the User with a list of their Messages or the list of Messages for a Group they are in. This controller also holds the endpoints for adding new message sources to a User or a group.
3. The next controller is the Group controller. This controller holds the endpoints that are used for creating, joining, and modifying the Groups users are a part of.
4. The fourth controller is the Live Chat controller, which handles administering the Web Socket connection to Users currently in the chatroom of a group.

Frontend

1. Landing Page
 - a. The landing page is the first screen the User sees and allows them to either register or log into an account.
2. Sign up:
 - a. This page allows the user to make a new account with the CheckMe service once they have created an account, they are sent back to the landing page to sign in.
3. Login
 - a. This page allows the user to login to existing accounts. Upon successful login, they will be redirected to the messages page.
4. Messages
 - a. This is the primary page for the application; it displays all of the user's messages and has a navigation bar so the User can navigate to the different pages of the application
5. Groups
 - a. Contains a list of the groups a user is currently a member of, as well as buttons to join or create a group. Selecting a group will take a user to that group's chat room.
6. Live chat
 - a. This page serves as the chat room for each unique group. Chats currently have no persistence and will be cleared upon the exit of the chat room.
7. Add Message Source
 - a. This screen allows the User to setup a new source of messages for an account or a group. After they have added the new source, they will be sent back to the message or group screen.

SQL Table Relationships

