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## Design Document for **GymApp**

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Group **TA\_126**

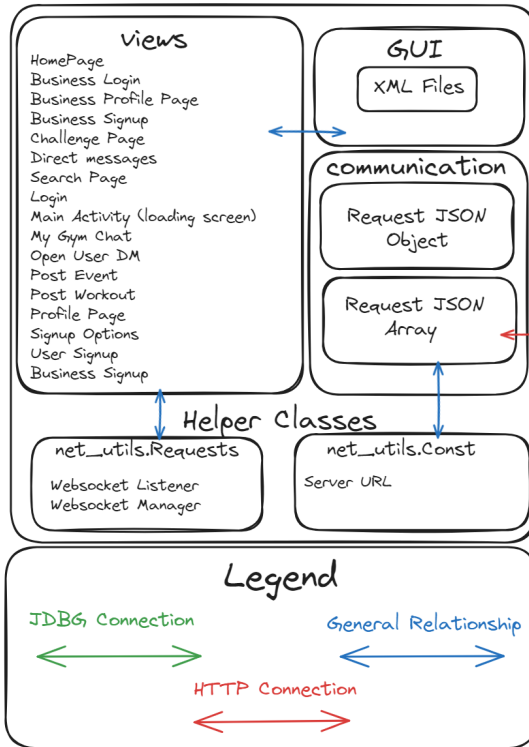
Joe : 25% contribution

Kyle: 25% contribution

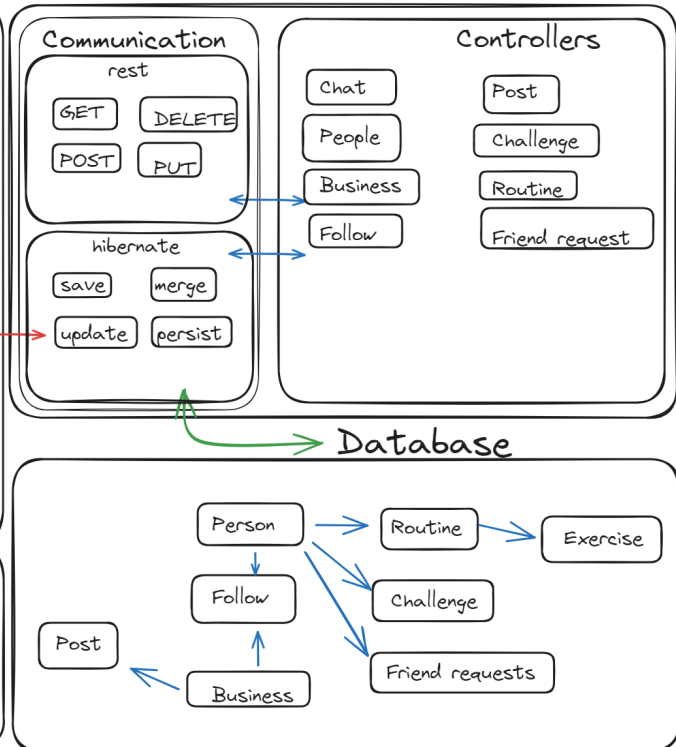
Lindsey Wessel: 25% contribution

Mason : 25% contribution

## Front End



## Back End



## Frontend

**Challenges:** A user types in another user's username and sends a challenge. All current and pending challenges are listed with the ability to accept, decline, or complete the challenge. Two buttons connected to the websocket allow the user to !encourage or !trash talk users they have challenged.

**Direct Messages:** A user types in another user's username and then connects to a private messaging screen between the two users. This uses a *WebSocket*. Connecting to a DM that has had previous messages, on connect, the user's message history is displayed.

**My Gym Chat (Group Chats):** A user can join their home gym group chat, and a business can join their group chat. This uses a *WebSocket*. On Connect, the message history for that group chat is displayed.

**Business Profile Page:** Loads all business information to the screen. Ability to post an event to the page, as well as view all events. A business joins their respective group chat from this screen.

**User Profile Page:** Users can view their current routines and previous posts, as well as their name and gym name. They can enter their gym's group chat, home screen, or followers list.

**Workout Tracking Page:** Users can enter PRs, sets, and reps of workouts they choose. Click the "Track Workout" button, and it will store their workout on the user's profile, also displayed on the profile page.

## Backend

### *Communication*

- uses REST API to send & receive information
- uses websockets to chat with one or many users

### *Controllers*

- **Chat:** chat directly with another person or with a group of people via WebSockets
- **People:** GET, POST a person. GET a person's friends. GET people by search query, GET people by search query whose `username` is not friends with
- **Businesses:** GET, POST a business. GET businesses near a certain zip code
- **Follows:** GET, POST a follow relationship. GET all businesses a person is following. GET all people who are following a business
- **Posts:** GET, POST a business post. GET all business posts
- **Challenges:** GET, POST a challenge between two people. GET challenges from a `username`, or GET challenges to a `username`. DELETE a challenge by declining or completing it. PUT a challenge when accepting a challenge; changes status from PENDING to IN\_PROGRESS
- **Routines:** GET, POST routines by a user. GET, POST workouts to/from a routine
- **Friend requests:** GET, POST a `friend request`

