
Block Diagram for CyWalk

Group: 4_RASEL_6

Caleb Kugel: 25%

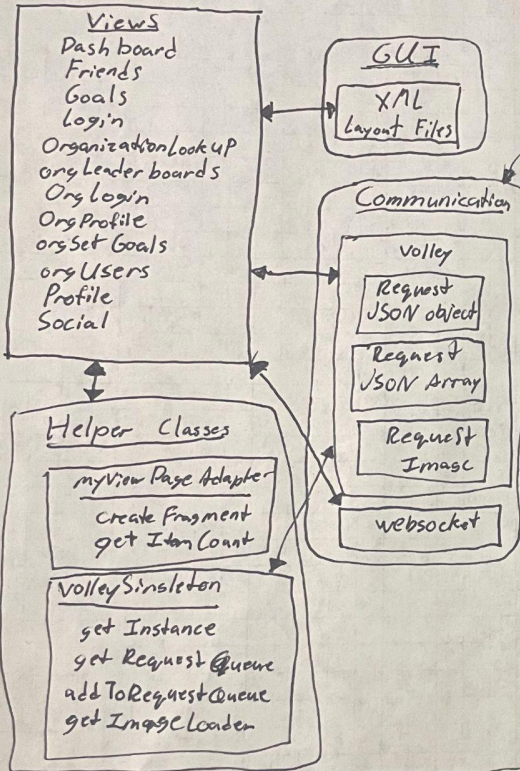
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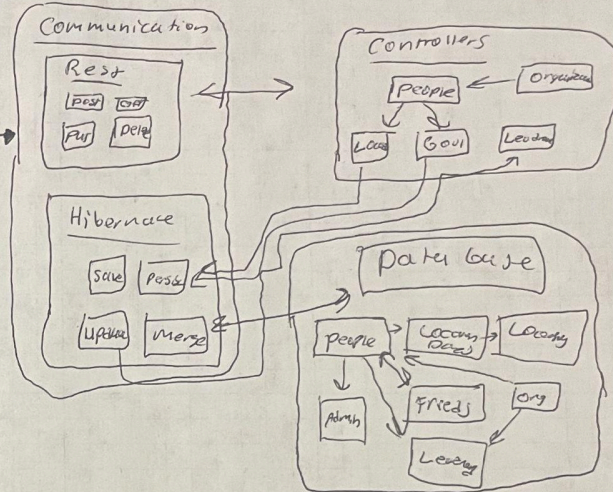
Justin Stevens: 25%

API URL: <http://coms-3090-072.class.las.iastate.edu:8080/swagger-ui/index.html/>

Frontend



Backend



Actor:

Interacts with the app through views, which contain UI elements such as buttons, input fields, and navigation. Login view gets username and password, and there is a signup button that creates a new user and sends them to dashboard view if one does not exist with the provided credentials. There is also a login button that sends the user to the dashboard view if a user exists with provided credentials. There is a Dashboard view which is basically the home page of the project, it has an integrated map view which shows the users location, and shows location of friends, etc. Locations are tracked with websockets, and user information is gathered with api calls to backend. There is also a Goals view where user can choose distance goals to try to achieve. Social view shows leaderboard comparing users, with filters for all global users, friends, and local. Profile view shows all user information, including profile picture, and options for editing profile info and log out. Organization Signup/login also exists within the login view, which is basically a group of users that can set organization-specific goals.

Server:

We are using Spring Boot as our backend for our project We use controllers to handle RESTful requests, handling POST, PUT, GET, and DELETE. Our controllers respond with response entities that give the frontend information as to what, if anything went wrong in the process of calling the request. Our repositories utilize hibernate to communicate with the database. We also listen on web sockets to provide extra functionality for the application,

Database:

Our database stores all of our users, their locations, friend relationships, and organizations they are a part of. We use MySQL as our database, which stores the relationships between our data and user information. We communicate with the database from the server

