
Design Document for **Servington**

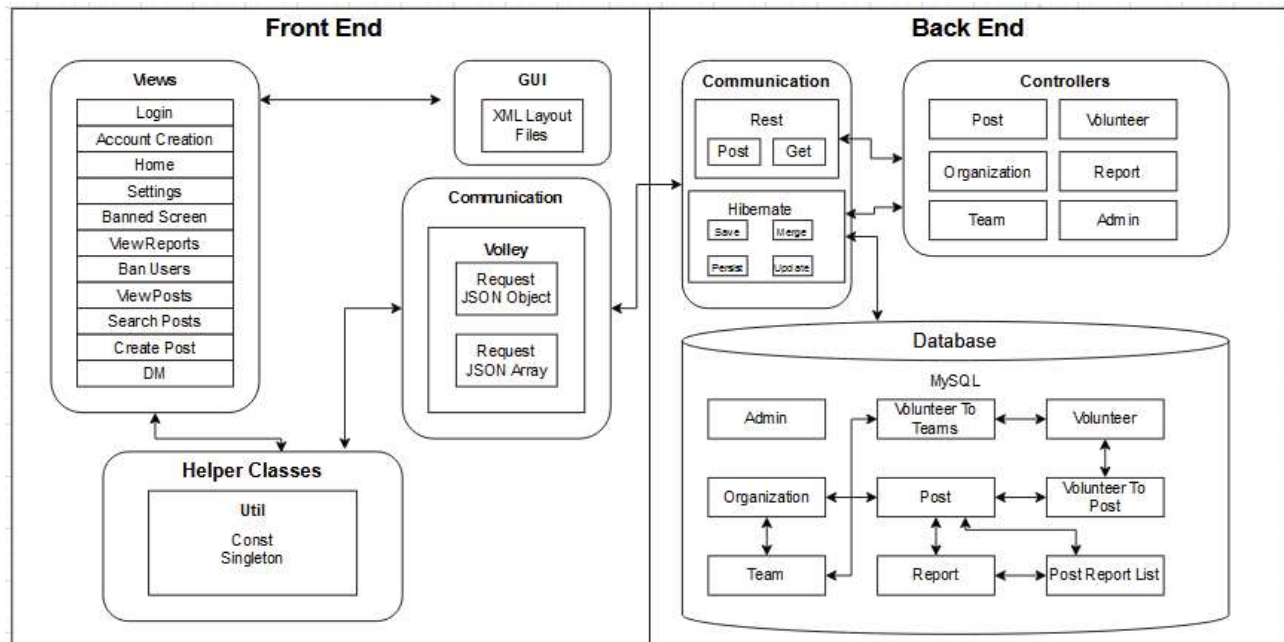
Group **2_AS_7**

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Frontend

Actor:

Navigation:

The Actor interacts with our application using a mix of android views and android fragments. The initial views include our main activity which is used to login to our program. The fragments are used for most user functionality as it allows quickly switching between pages.

Communication:

The frontend uses Get and Post Methods to pull information from the backend using the mapping URLs

Classes:

The following classes used these communications methods to communicate through the backend

- MainActivity: uses a get request to compare user information with the database.
- CreateAccountActivity: uses a POST request to create a JSON object with user information in the database.
- VolunteerPostsFragment: uses GET request to pull an array of JSON obj. holding post information.
- VolunteerSearchFragment: uses Get request to pull Array of JSON obj. based on user input.
- OrganizationPostsViewFragment: uses get request to pull Array of JSON obj. based on ORG ID.
- OrganizationPostsCreateFragment: uses Post request to create and push JSON obj to database.
- OrganizationSettingsFragment: uses Post request to update Org table fields.

Backend

Communication:

The backend uses JPA and REST methods to search and update the database based on the mapping URLs called from the frontend.

The methods include:

- Post: send information on an item to be added to the database.
- Get: request information based on what is sent with the request.

Classes/Controllers:

The classes and corresponding controllers use our communication methods between the frontend and the database to manage all of our information for the app.

This includes:

- Admin: Allows for the creation and deletion of admins, admins carry special privileges
- Organization: Allows for the creation of organization users, they can edit their fields, they can create a team, they can make posts
- Volunteer: Allows for the creation of volunteer users, they can sign up for events, report posts, view and search posts, edit their fields, join teams
- Post: A post can be created, contains a list of volunteers that have signed up, can be deleted, can be reported
- Report: A report can be created to let admins know about illicit posts,
- Team: Organizations can create a team, Volunteers can join a team

