# Project SafeWalk

A mobile application for commuters

# Project Roles

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# Introduction

A mobile application designed to improve user safety during commutes, especially in unfamiliar or unsafe environments. By offering real-time location tracking, emergency notifications, and user-friendly interfaces, the application empowers individuals to feel more secure when walking alone.

# Expected Features

## 01

### Live Tracking

Allow users to share their real-time location with specific contacts or friends

## 02

### Panic Button

Instantly alert chosen contacts and/or possibly authorities

## 03

### Route Recommendations

Suggest safer routes based on data, lighting, and community feedback

## 04

### Community Reportings

Users can report areas where they felt unsafe, or areas with poor lighting

# Use Case Diagram

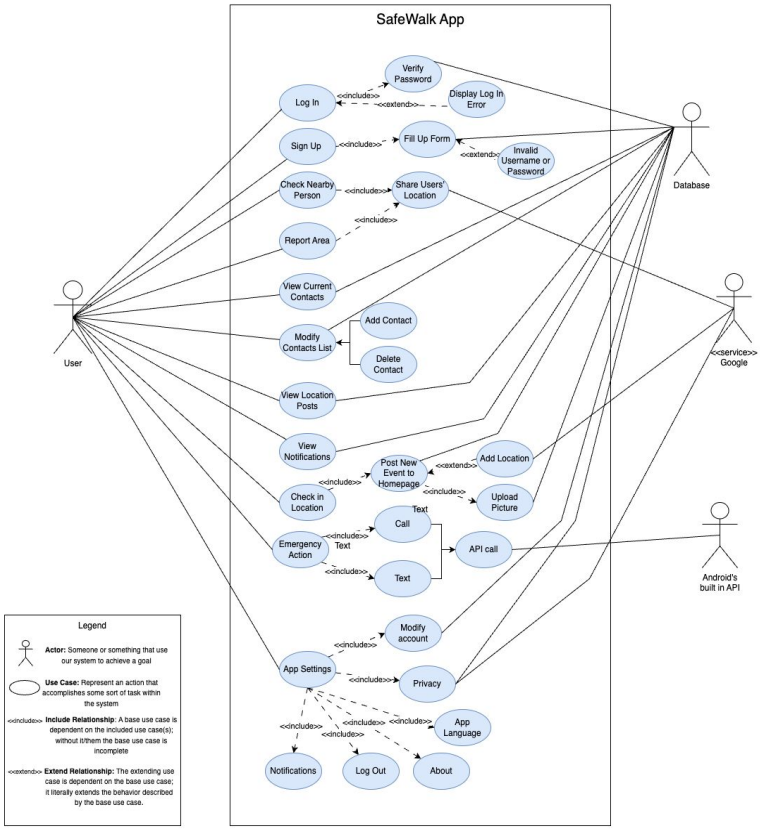
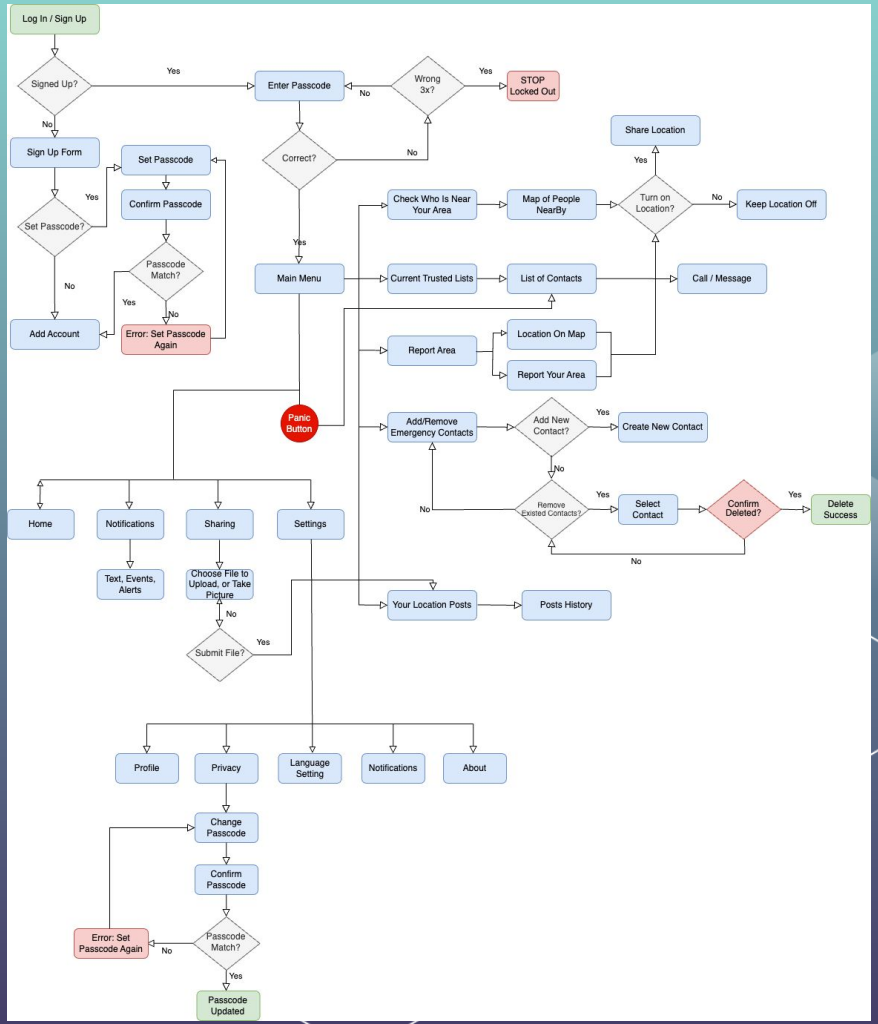
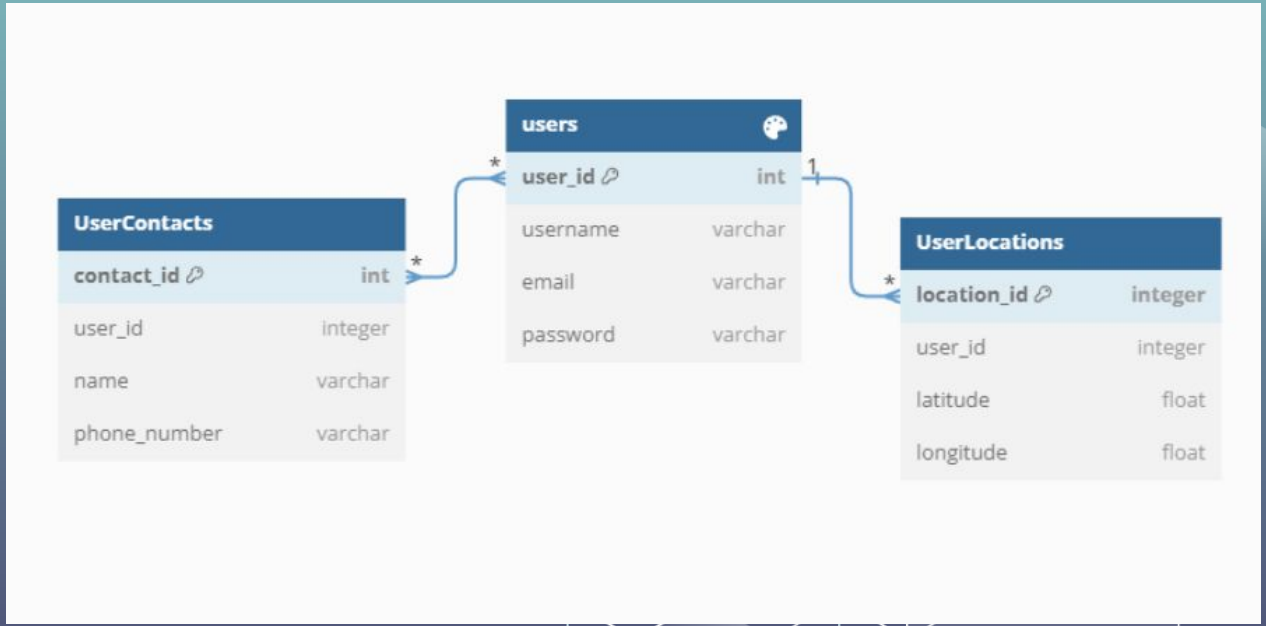



Figure 1. SafeWalk Use Case Diagram

# State Chart Diagram

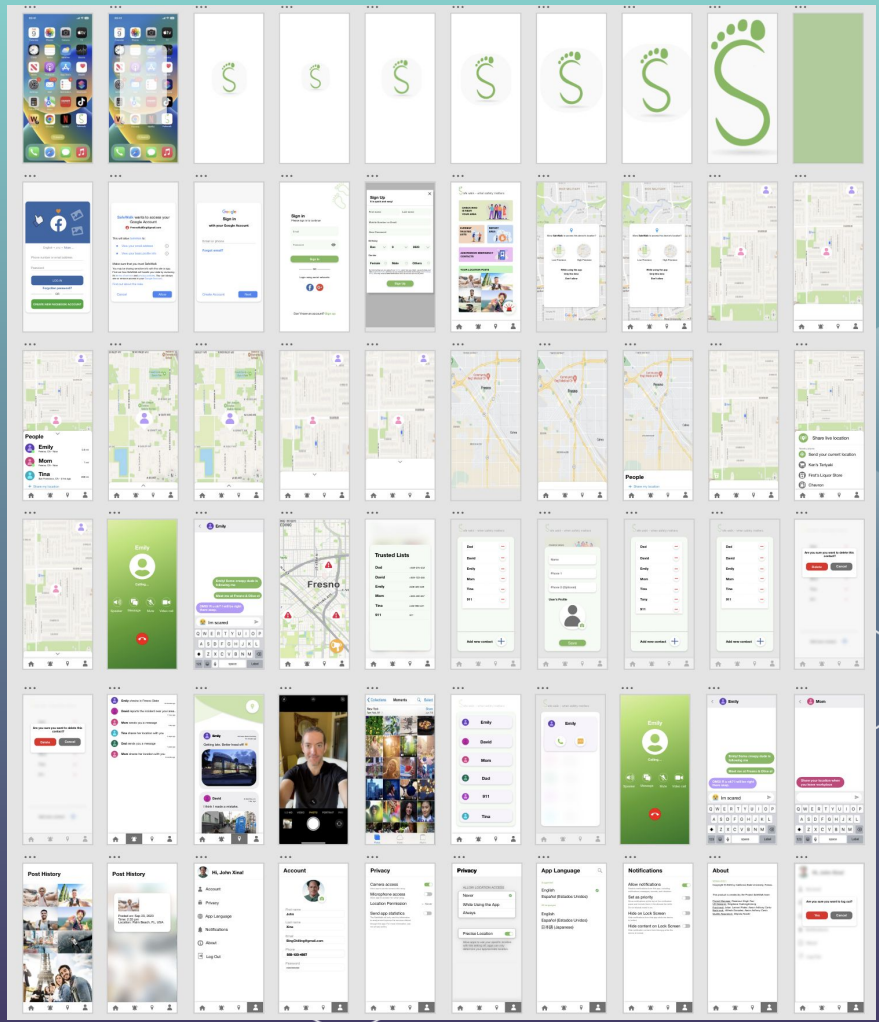


# UML diagram


users
user_id int
username varchar
email varchar
password varchar
UserContacts
contact_id int
user_id integer
name varchar
phone_number varchar
UserLocations
location_id integer
user_id integer
latitude float
longitude float
*
*
1
*

# UX/UI

https://xd.adobe.com/view/e1c95501-a29a-4c0d-8f70-89b5c9f1e0da-b49a/grid

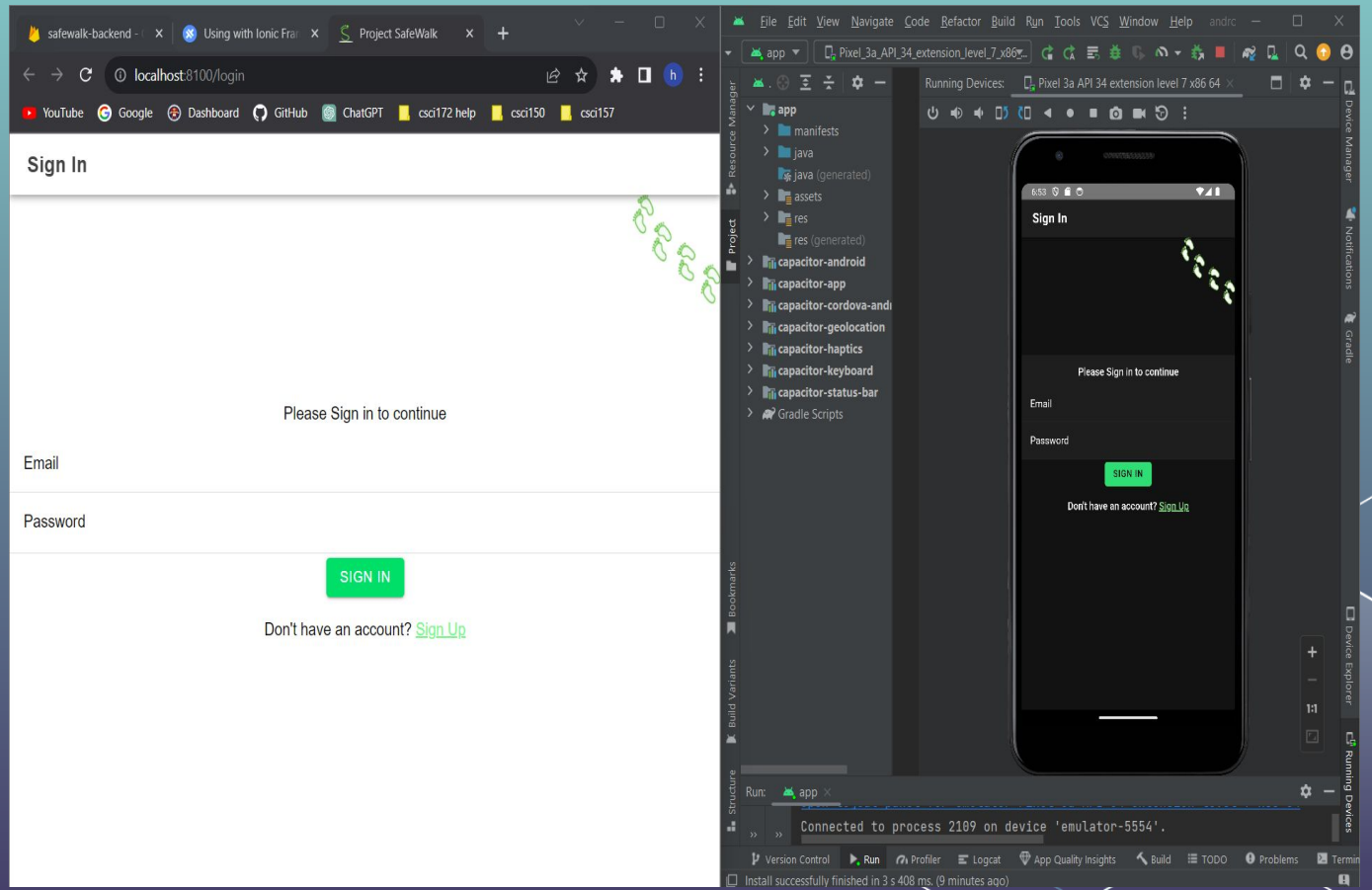


- Footprint as an S shape to represent the name of the app.
- Green color to represent the meaning of safety.

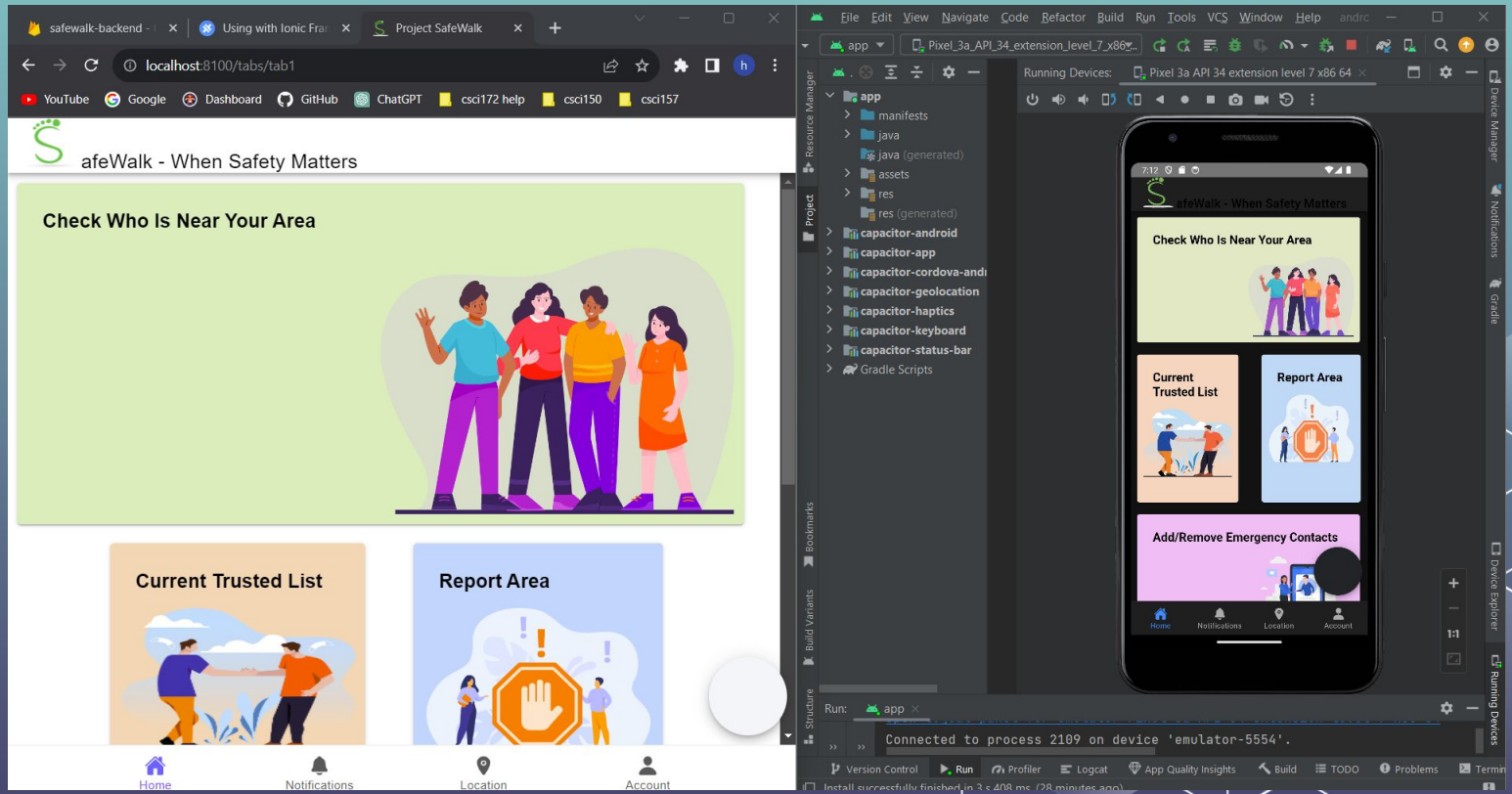
# Frontend

- HTML, CSS, JavaScript/TypeScript
- Ionic/Angular Framework

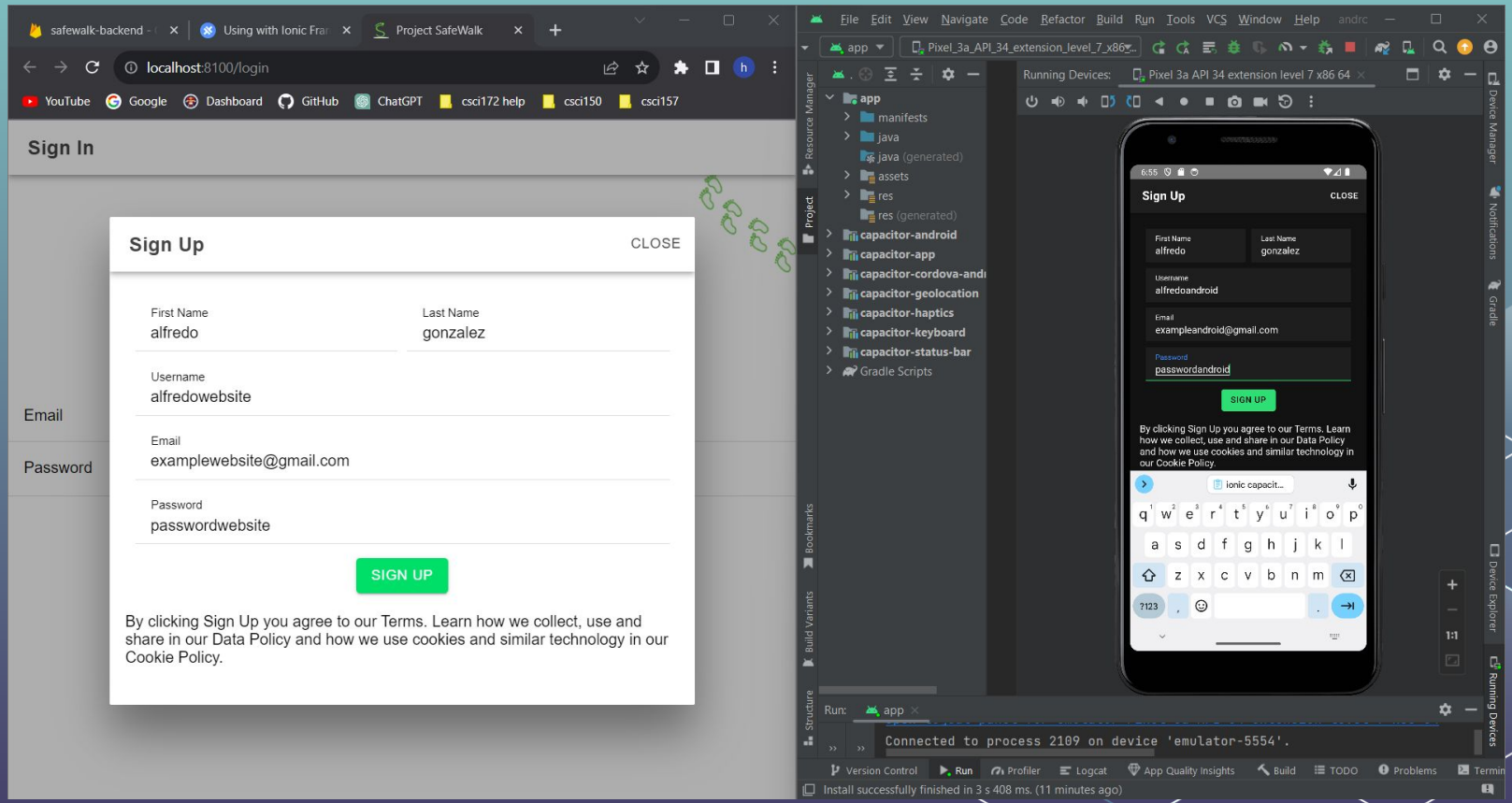
# Frontend – Login Page



# Frontend – Home Page

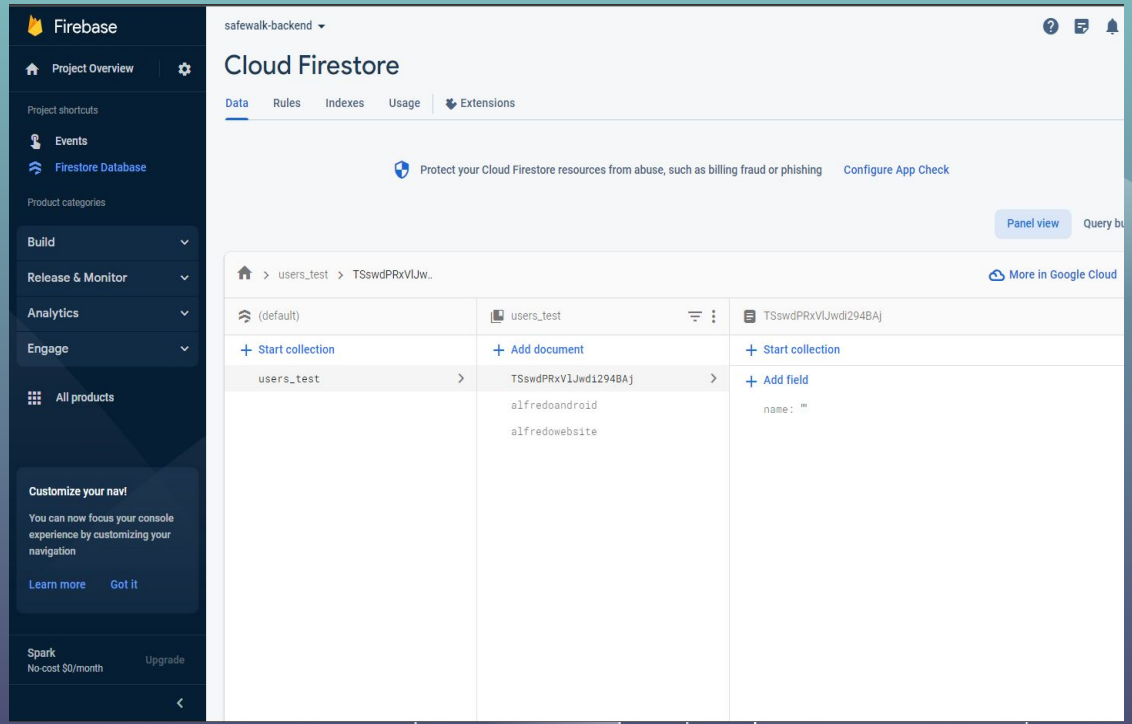


# Frontend – Sign Up modal

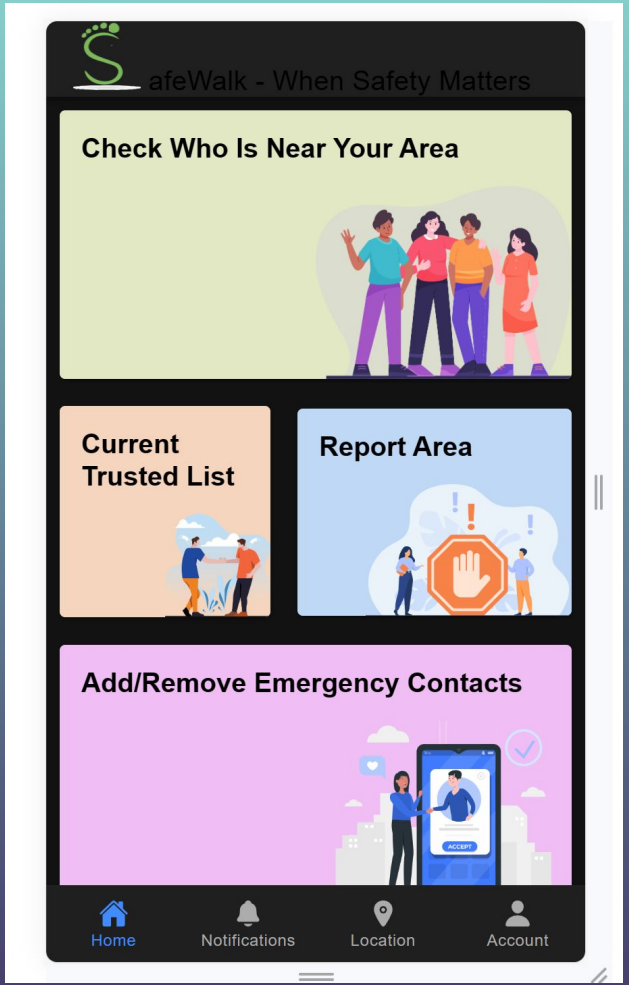


# Backend

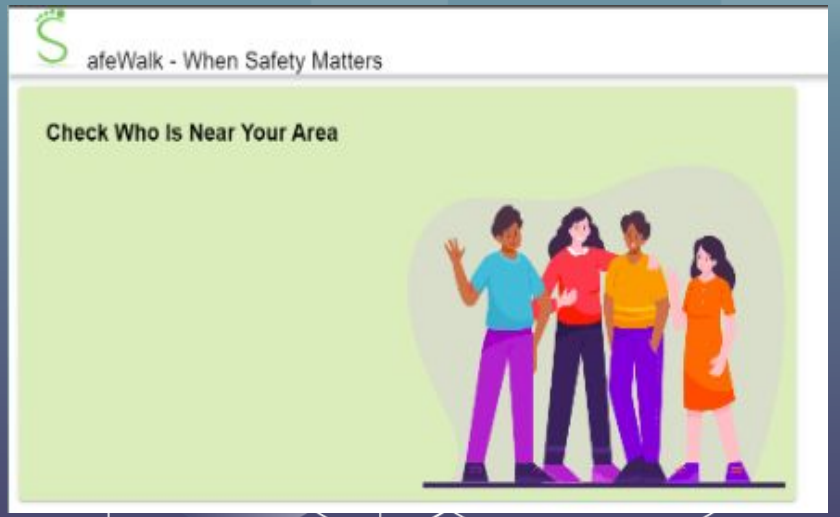
- Firebase Database
- Node.JS
- Express for remote server



# QA




- First design does not work on devices set to dark mode theme.
- Works when app is set to Light theme.
- Login page and Home page are working properly



# Future Plan

- Adding/Contacts through Frontend
- Push notifications
- Google Authentication
- Route Recommendations
- Community Feedback
- Styling Pages