App Description: It is a user-forward mobile app that easily directs California residents to the nearest disaster relief resource!

Outline

I. **Problem Statement**
II. **User Research**
III. **Data Collection**
IV. **Backend - Cerebras and Google API**
V. **User Interface - Flutter**

Problem Statement

- Disaster relief resources are important in providing physical and mental care to those affected by the consequences of natural disasters

- However, finding these resources can be difficult for the general public

- Most of the time, a user doesn't even know where and what to start looking for

- We want to provide users a friendly and accessible way to search for disaster relief resources around them, which includes police stations, food banks, and homeless shelters, vendors with women products, etc.

User Data Collection

- We created a google form to gather user data within HackDavis and the UC Davis student community
- Gain a broader perspective of people's needs during a fire natural disaster to ensure culturally and demographically sensitive fire recovery response
- Total Responses: 64

Pre fire disaster (warnings)

Scenario: a fire is coming near your area and you just received a warning. what resources would you contact?
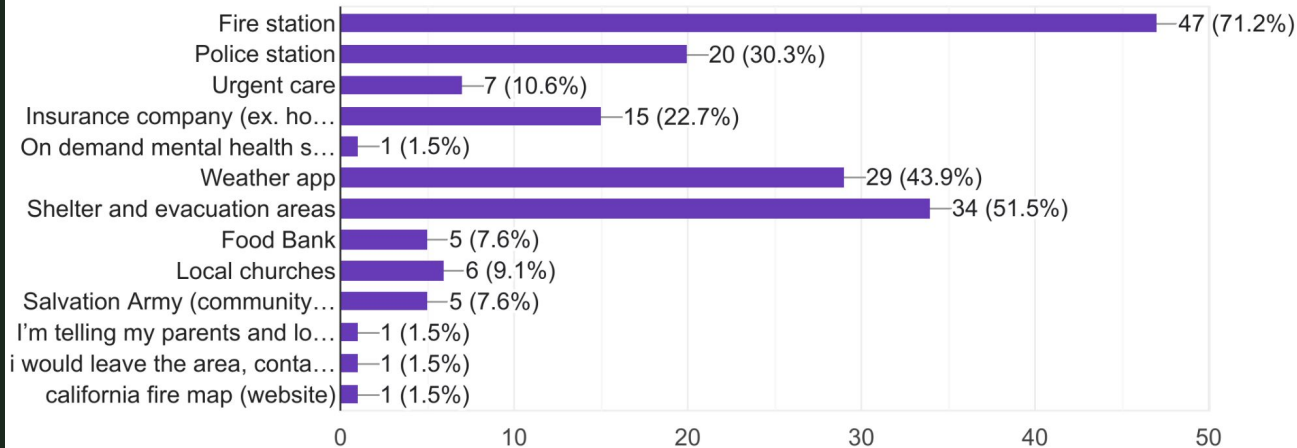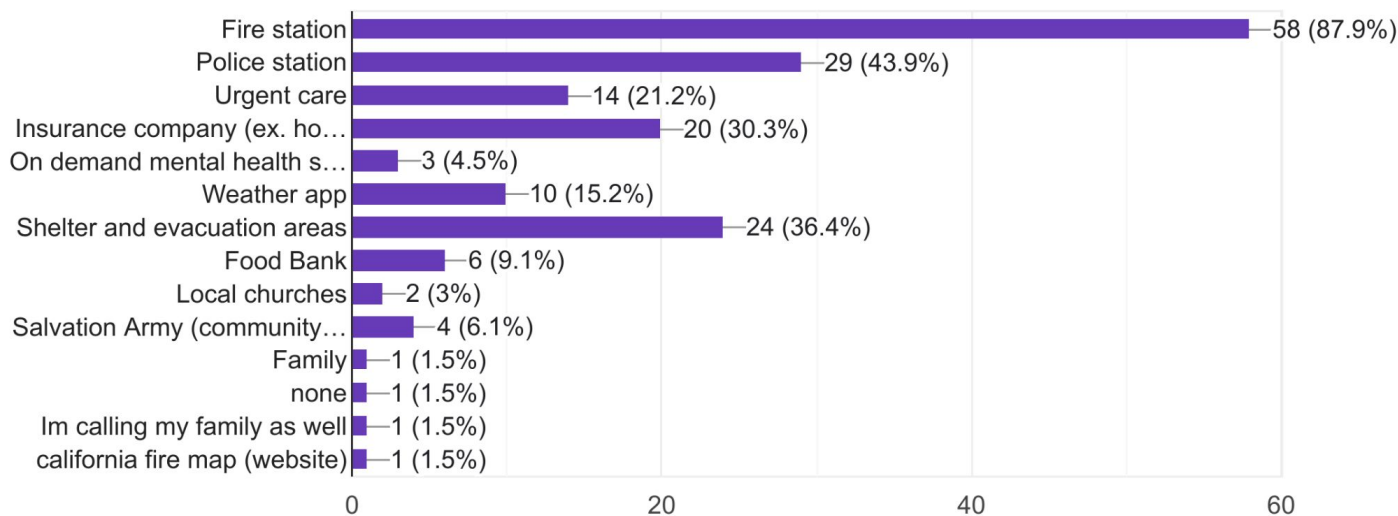
66 responses

Top 3:
Fire station, Police station, Shelter and evacuation areas

During Fire Disaster

Scenario: your area of living is currently on fire, what resources would you contact?

66 responses

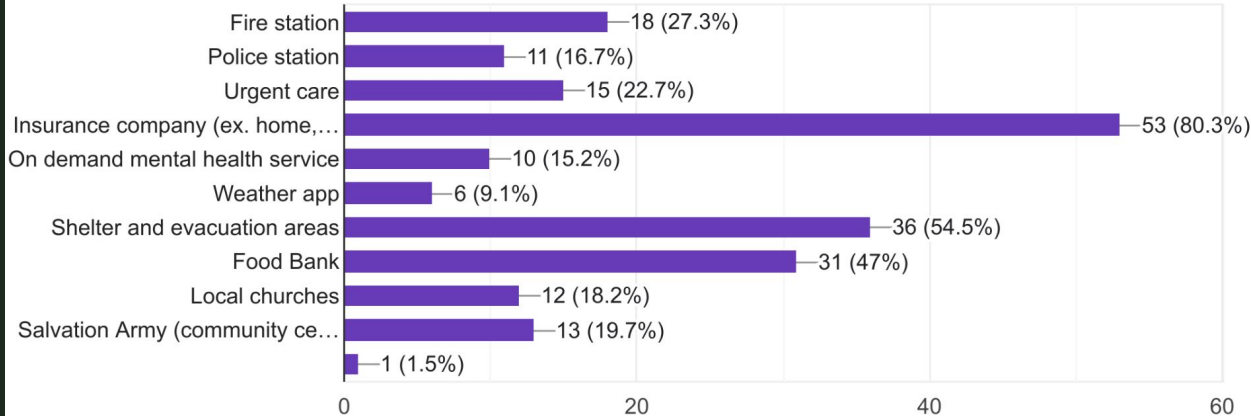| Resource	Count
Fire station	58 (87.9%)
Police station	29 (43.9%)
Urgent care	14 (21.2%)
Insurance company (ex. ho…	20 (30.3%)
On demand mental health s…	3 (4.5%)
Weather app	10 (15.2%)
Shelter and evacuation areas	24 (36.4%)
Food Bank	6 (9.1%)
Local churches	2 (3%)
Salvation Army (community…	4 (6.1%)
Family	1 (1.5%)
none	1 (1.5%)
Im calling my family as well	1 (1.5%)
california fire map (website)	1 (1.5%)

**Top 3:
Fire station,
Police station,
Shelter and evacuation areas**

Post Fire Relief

Scenario: your area/home just went through a fire incident. what resources would you contact?

66 responses

Resource	Responses
Fire station	18 (27.3%)
Police station	11 (16.7%)
Urgent care	15 (22.7%)
Insurance company (ex. home,...	53 (80.3%)
On demand mental health service	10 (15.2%)
Weather app	6 (9.1%)
Shelter and evacuation areas	36 (54.5%)
Food Bank	31 (47%)
Local churches	12 (18.2%)
Salvation Army (community ce…	13 (19.7%)
	1 (1.5%)

Top 3: Insurance Company, Shelter and evacuation, Food bank

No natural disaster

Scenario: there are no immediate natural disasters in your living area. what resources would you want to contact?

64 responses

Top 3:
None,
Weather app,
Local churches
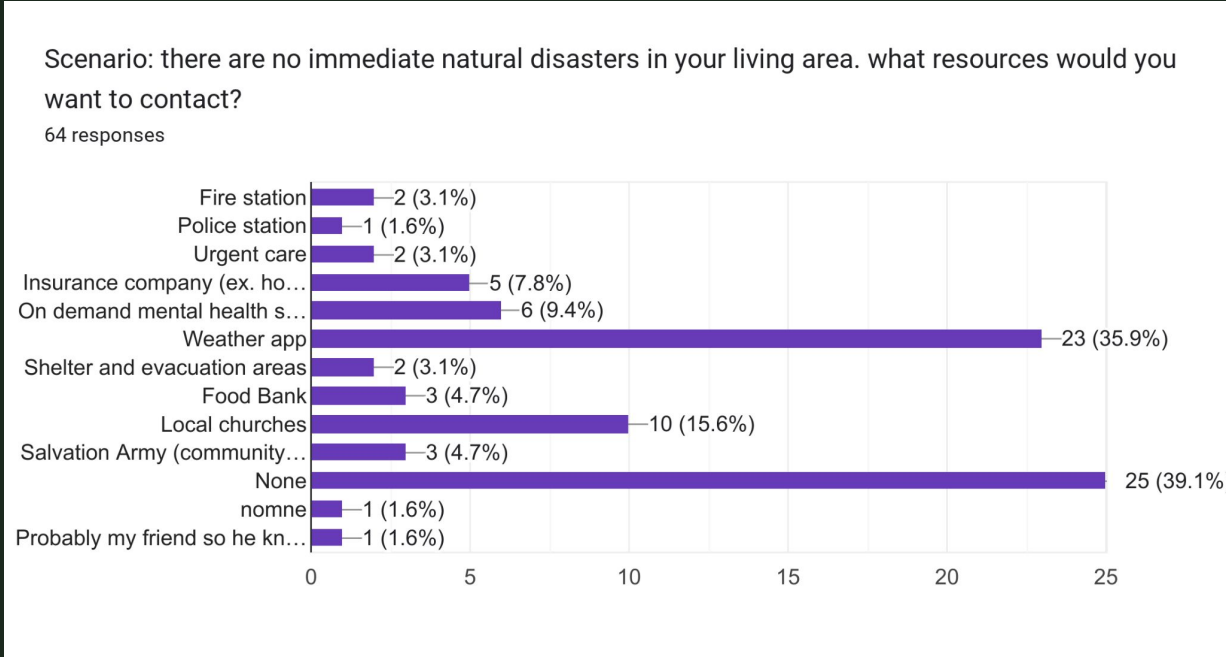
Survey Locations in California
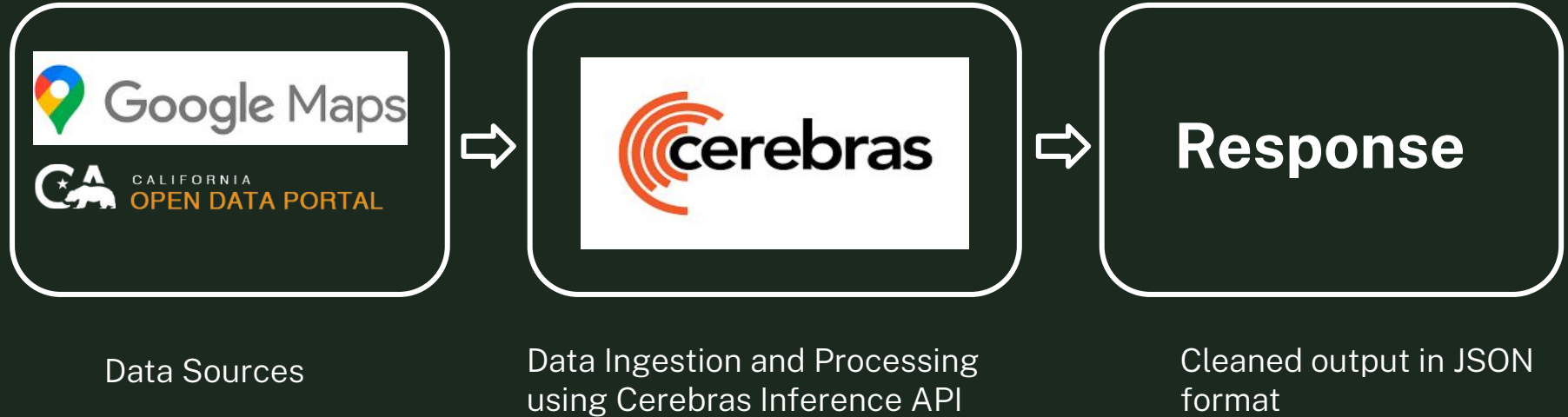

Map of California with Selected Cities
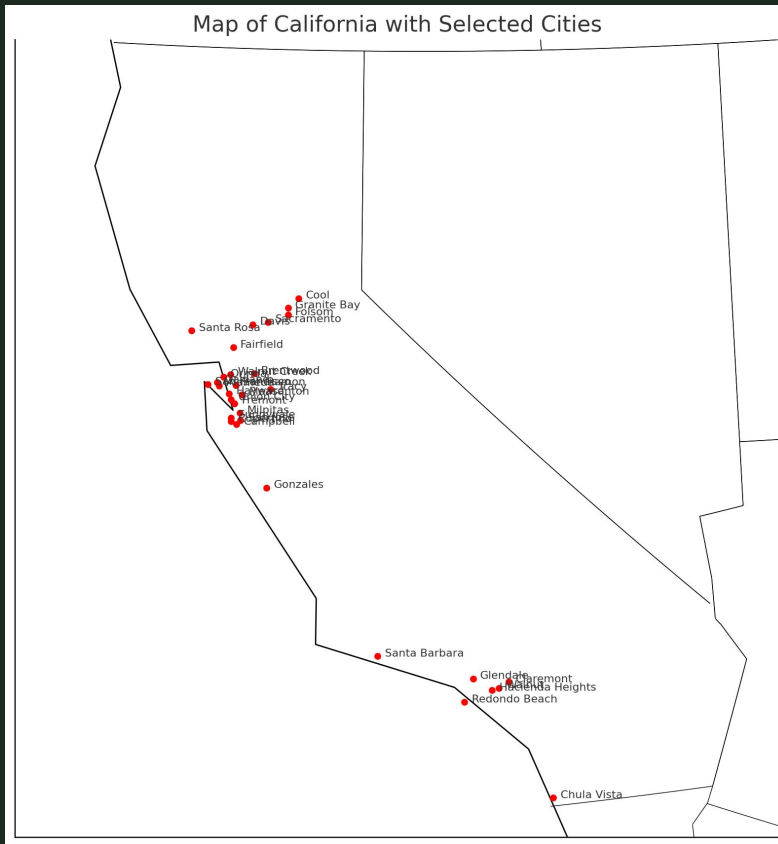
- 43 Unique cities
- 58 California cities

Data Collection

- Since the app is to direct users to disaster relief resources, we needed to gather online resources
- Multiple data sources
    - Csv file from data.ca.gov
        - Women's resources
        - Hospital buildings
    - Google Maps API
        - Fire stations
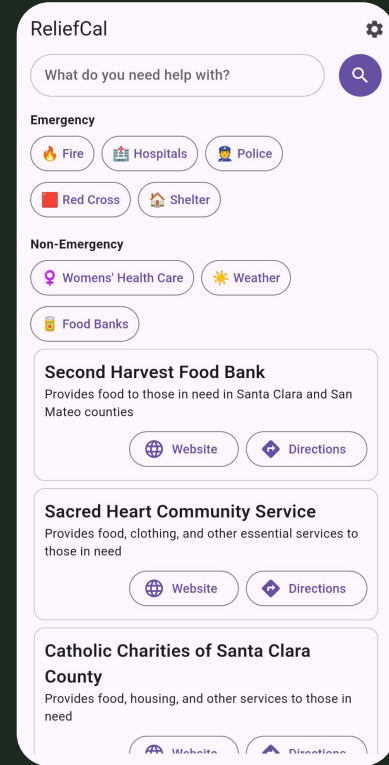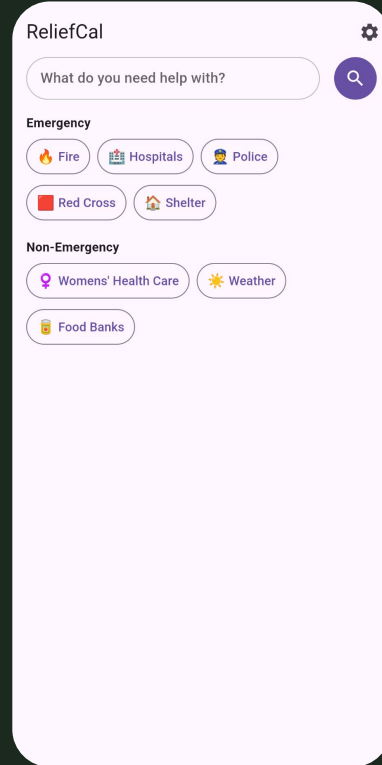   - Police stations
        - Salvation Army
        - Red Cross

Back End Design - Python

Data Sources

Data Ingestion and Processing
using Cerebras Inference API

Cleaned output in JSON
format

Front End Design - Dart

- Location specific
- Lists nearby resources
- Sorts resources into easy to find buttons

ReliefCal

What do you need help with?

Emergency

🔥 Fire   🏥 Hospitals   👮 Police

🟥 Red Cross   🏠 Shelter

Non-Emergency

⚕ Womens' Health Care   ☀️ Weather

🍱 Food Banks

ReliefCal

What do you need help with?

Emergency

🔥 Fire   🏥 Hospitals   👮 Police

🟥 Red Cross   🏠 Shelter

Non-Emergency

⚕ Womens' Health Care   ☀️ Weather

🍱 Food Banks

Second Harvest Food Bank
Provides food to those in need in Santa Clara and San Mateo counties

🌐 Website   ◈ Directions

Sacred Heart Community Service
Provides food, clothing, and other essential services to those in need

🌐 Website   ◈ Directions

Catholic Charities of Santa Clara County
Provides food, housing, and other services to those in need

🌐 Website   ◈ Directions

LIVE DEMO

THANK YOU!