OMAC - One Map for All Crises

Andrew Page, Haider Sharik, Marcus Petrov, Courtney Calderon, Luis Larios



Overview

Natural disasters (e.g., earthquakes, hurricanes, wildfires) cause significant damage to lives and property. Lack of real-time, centralized information makes it difficult for individuals and organizations to respond effectively.

There are many different apps that show certain types of natural disasters in specific locations, our software will take data directly from FEMA and provide a nationwide map of all types of natural disasters.

Objectives

- Provide a way for community members to communicate with others and give support, supplies, and safe shelters
- Real-time tracking of natural disasters worldwide.
- Offer customizable alerts for users based on location and disaster type.
- Educate users on disaster preparedness and safety measures.
- Enable data visualization for better understanding of disaster trends.

Features

- → Website tracks all disasters, not just fires
- → Favorite locations to get live alerts for family and friends
- → Post in your community for help or providing help for others, local businesses can also advertise discounts/benefits provided to those in need
- → Filter the website by type of disaster, location, most recent, and most severe
- → Shows evacuation zones and places to evacuate to

Technical Details

APIs: FEMA or USGS to pull natural disaster data, Leaflet or Google Maps for interactive map

GitHub for version control and organization

HTML, CSS, JavaScript and React for the frontend, Node.js or SQL for backend

MAMP for a local server environment

Timeline

Phase 1: Design (Weeks 3-5) - Use Canva to create a mockup of the general layout and design, finalize the feature list and requirements

Phase 2: Implementation - (Weeks 6-11) Develop the frontend and backend components and integrate APIs and databases

Phase 3: Testing - (Weeks 12-13) Conduct unit testing, testing on integration, and user interface

Phase 4: Deployment - (Weeks 14 - 15) Launch and monitor website performance

Impact

The wildfires that tore through massive amounts of California inspired us to create this website

We saw the worst and best in people as some price gouged and took advantage of others while some offered free clothing and discounted housing

Our hope is to create a broad national community, providing information and assistance for those impacted by all types of natural disasters