Team – 10

Project Title: Safety and Wellness Assistance Website

Problem Statement:

In today's urban environments, personal safety and well-being are increasingly becoming major concerns, particularly for those who live or work in high-risk areas. Individuals may feel vulnerable to threats like crime, harassment, or accidents, and often lack the tools needed to effectively protect themselves or respond to emergencies. Moreover, the stresses of daily life, coupled with concerns for personal safety, can take a toll on mental and emotional well-being. While there are various apps available for tracking safety or providing mental health support, few offer a comprehensive solution that integrates both aspects in a user-friendly manner. The need for a reliable, all-in-one solution that addresses both safety and well-being has never been greater, especially in a world where individuals are more mobile and exposed to various risks.

Introduction:

The project aims to create a user-friendly website offering two key services: Safety Services and Mental Awareness Services. The Safety Services feature provides users with real-time weather information for any specified location, accompanied by safety tips based on current conditions, and directions to nearby police stations and hospitals. The Mental Awareness Services include a mental health survey with result-based recommendations, access to articles on various mental health topics, and a list of helpline services for immediate assistance. The platform is designed to ensure user safety and promote mental well-being in a simple and efficient manner.

Project Objective:

The main objective of our project is to provide a platform where users interact with an integrated system which provides certain aspects of safety in day-to-day life as well as wellness. To achieve this, we develop a website that offers two main services, which includes,

1. Safety
2. Wellness

In the safety service, we focus on providing information to the user which helps him in better planning of the day, which is achieved by providing him the detailed weather report about the place he is currently at or any place he would like to know about and showcase some safety tips to tackle the weather conditions if necessary.

Regarding the wellness service, it supports users' mental health by providing surveys to gauge mental well-being, access to relevant articles, and helpline services for immediate assistance.

Project Scope:

1. **Safety Services**:
    a. **Weather Information:** Users can input a location to get real-time weather updates.
    b. **Safety Tips:** Based on the weather conditions, safety tips will be automatically provided to the user (e.g., flood warnings, extreme heat warnings).
    c. **Emergency Services Locator:** Users will receive directions to the nearest hospitals and police stations based on their location.
2. **Mental Awareness Services**:
    a. **Mental Health Survey:** Users can take a survey, and the system will provide a report, or recommendations based on the responses**.**

b. **Articles on Mental Health:** Users can access a range of articles on topics like stress management, anxiety, depression, and coping strategies.
c. **Helpline Services**: A directory of helpline numbers for users seeking immediate mental health support.

Functional Requirements:

1. **User Interface (UI):** Simple, intuitive design with clear navigation. Separate sections for weather and wellness awareness services.
2. **Safety Service Functionalities:** Input field for users to search for a location. Display of real-time weather updates using API integration. Safety tips corresponding to the weather conditions. A map showing directions to the nearest police stations or hospitals.
3. **Mental Awareness Service Functionalities**:
    a. **Survey**: A set of questions to assess mental well-being, with results displayed post-survey.
    b. **Articles**: A list of categorized articles on mental health issues.
    c. **Helpline Services**: A contact page with a list of helpline numbers and clickable call buttons for mobile users.

Non-Functional Requirements:

1. **Performance**: The system should load the necessary service accurately and efficiently.
2. **Scalability**: The system must handle an increasing number of users without degrading performance.
3. **Security**: Ensure data privacy for users, especially for survey data and location details.
4. **Responsiveness**: The website must be fully responsive

Technical Requirements:

1. **Frontend**: HTML5, CSS3, JavaScript(Angular)
2. **Backend**: Node.js, Express.js for serving APIs, Spring Boot
3. **Database**: MySQL MongoDB for storing user inputs, survey data, and emergency service locations.
4. **Third-Party APIs**:
    - Weather Data: Integration with OpenWeatherMap API or a similar service.
    - Map and Location Services: Integration with Google Maps API for emergency service locator or OpenStreetMaps.

Project Constraints and Risks:

1. Delay in API integration for weather or map services.
2. Incomplete or outdated emergency service locations.
3. Security breaches in user data for mental health surveys.

Vaishnavi and Zeba