

LifeLink eAmbulance Website Documentation

Problem Definition

The LifeLink eAmbulance website is designed to address the critical need for efficient and timely emergency medical transportation.

The website allows users to request ambulance services promptly and conveniently, while providing features such as real-time availability updates, cost comparisons, and different types of ambulances to meet users' specific needs. The platform connects patients with medical emergency services to save lives and ensure a smooth booking process during critical situations.

Design Specifications

The LifeLink eAmbulance website is designed as a Single-Page Application (SPA) with a responsive layout to ensure easy navigation

on all devices. The main components include:

- A Services section displaying available eAmbulances with details like cost and availability.
- A Contact section allowing users to request an ambulance by filling out a form with necessary details.
- The website features dynamic rendering of ambulance data and allows for searching, sorting, and filtering capabilities.
- No server-side data storage; all data is fetched from local JSON/TXT files.

Diagrams (Flowcharts, DFDs)

Various flowcharts and data flow diagrams are used to map the booking process, ambulance

request form submission,

and the interaction between the user and system. These diagrams help in visualizing how users navigate through the website

and perform actions like requesting an ambulance or viewing available services.

Test Data Used in the Project

1. Test Case: User requests a Basic Ambulance from a city location.

- Input: Name: John Doe, Phone: 1234567890, Location: Downtown, Ambulance Type: Basic Ambulance

- Expected Outcome: Ambulance booking confirmation message.

2. Test Case: User views available ambulances for a specific location.

- Input: User navigates to the Services section.

- Expected Outcome: List of available ambulances with cost and availability details.

3. Test Case: Invalid phone number in ambulance request form.

- Input: Name: John Doe, Phone: abcdefg, Location: Downtown, Ambulance Type: Advanced Ambulance.

- Expected Outcome: Error message indicating invalid phone number format.

Project Installation Instructions

1. Install a web server like XAMPP or use Visual Studio Code with Live Server extension to run the website.

2. Unzip the project file and place it in the appropriate directory of the web server.

3. Ensure all dependencies (e.g., Bootstrap, jQuery) are included in the source files.

4. Open the website in a web browser by navigating to the index.html file.
5. No database setup is required as the project uses JSON/TXT files for data.