VARDHAMAN COLLEGE OF ENGINEERING, HYDERABAD

Autonomous institute affiliated to JNTUH

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Title: INFIRMARY –A Large medical Facility

BATCH ID : 19CSPW-A1

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Guide Details

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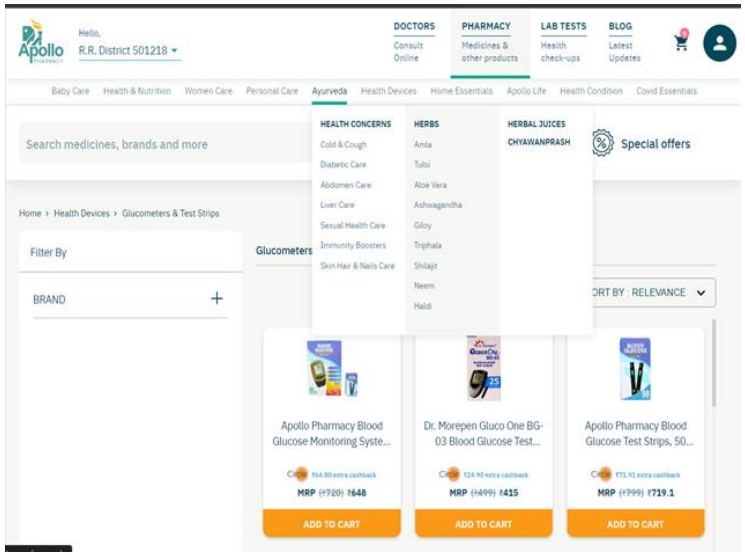
Major Project Review-2 Outlines

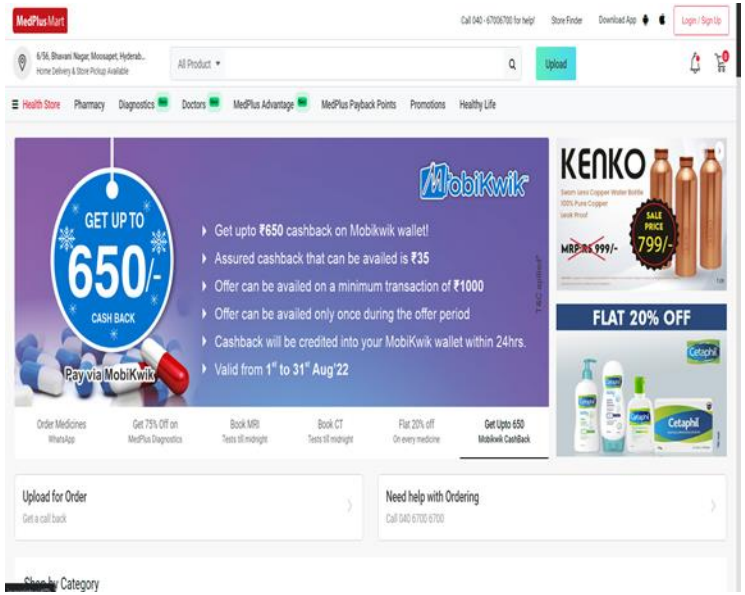
- Main idea of the Project
- Existing System Vs Proposed
- Proposed Project Objectives
- Proposed Project Outcomes
- Software and Hardware Requirements
- Process Model
- Design Phase
  - Architectural Diagram [Modified]
  - [UML Diagrams or Data Flow Diagrams] and ER-Diagrams ; It should be detailed diagrams
- Proposed Method s and Algorithms [With example]

Main idea of the Project

- Citizens may experience a health emergency, so we frequently employ the emergency medical response ambulance services. But there are some circumstances where taking a different route is preferable.
- Through social media, persons in an emergency can find hospitals in the region. However, occasionally there may not be a shortage of beds if we discover a hospital. Therefore, we must relocate to a different hospital. This could develop into a significant issue.
- If we need to visit the hospital for a procedure or a doctor's appointment but there are already a lot of prior appointments, we will have to wait longer.
- Therefore, in order to address these issues, we are developing a web application that will enable us to locate nearby hospitals with open beds as well as schedule doctor appointments at our convenience.

Existing System Vs Proposed





Proposed Project Objectives

- The project is based on developing a web application for patients who are unable to locate the closest hospitals in an emergency situation, such as a car accident, a sudden heart attack, or a patient who needs emergency medical care.
- The user must register on the website in order to avoid having to repeatedly enter their personal information into appointment forms, forms for organ and blood donations, and other medical forms.
- The website can offer even urgent services, such as emergency blood donors and the closest hospitals from the area in need. It can also offer the best medical services and direct visitors to the nearest medical facility quickly. With the help of this project, the website will be able to direct emergency patients to the closest hospitals and lower the number of people who pass away while travelling to those facilities.

Proposed Project Outcomes

- In an emergency, people can check the nearby hospital's based on your location for bed availability.
- User will able get a clear guidance about generic medicines.
- The hospital staff will keep the data updated without any incidents.
- The user will be able check his reports in the website. (Ex:- X-ray, MRI).
- With the help of this effort, we can prevent death and save a lot of lives.

Software and Hardware Requirements

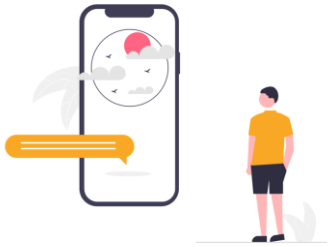
Software requirements:

- Web technologies (HTML, Angular JS and others.)
- Machine learning using python.

Hardware requirements:

- Smart Device (Mobile phone, Smart watch and others.)
- Internet connectivity
- Servers
- Cloud storage.

Process Model



AMBULANCE OR NEAREST HOSPITAL WILL BE SHOWN

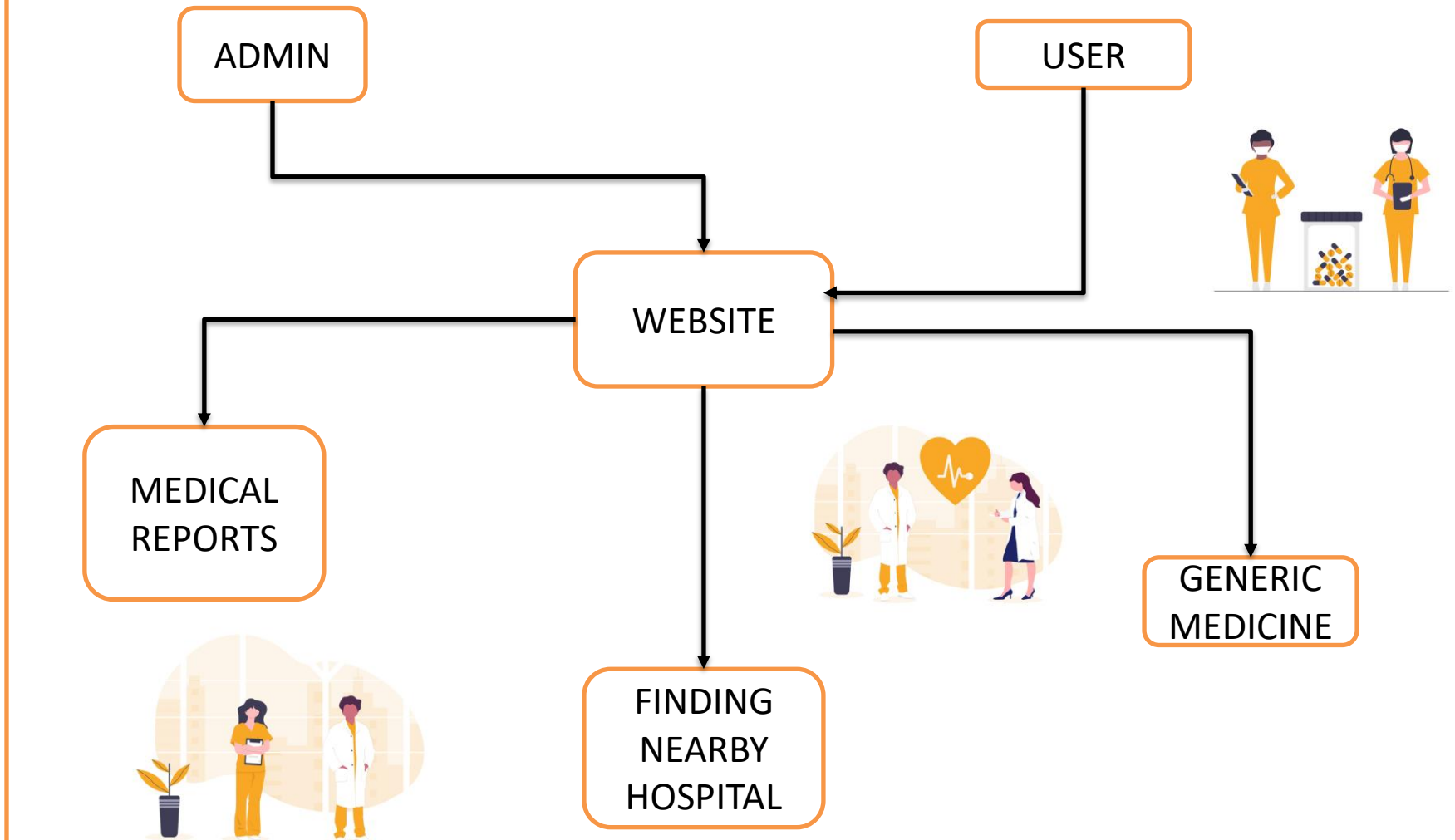
USER OPENS THE WEBSITE

IF THE USER CLICKS THE EMERGENCY

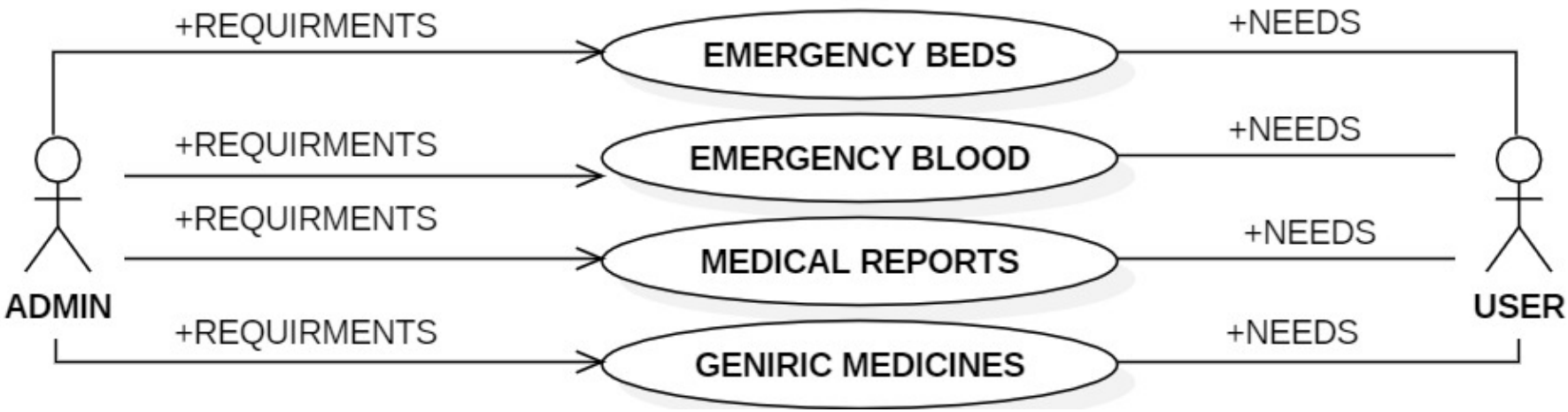
BED WILL BE RESERVED

DETAILS OF THE USER WILL BE UPDATE

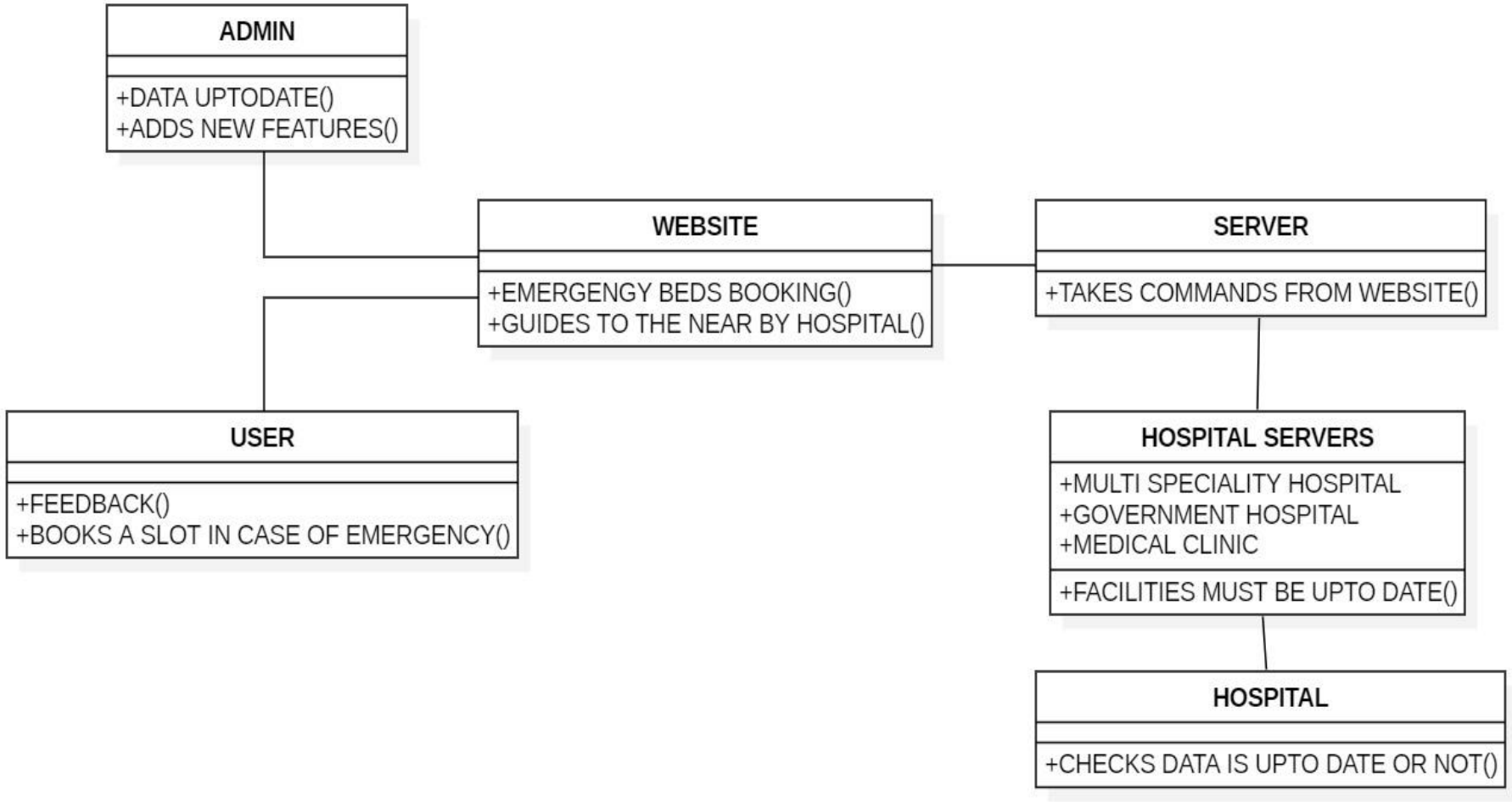
Architectural Diagram



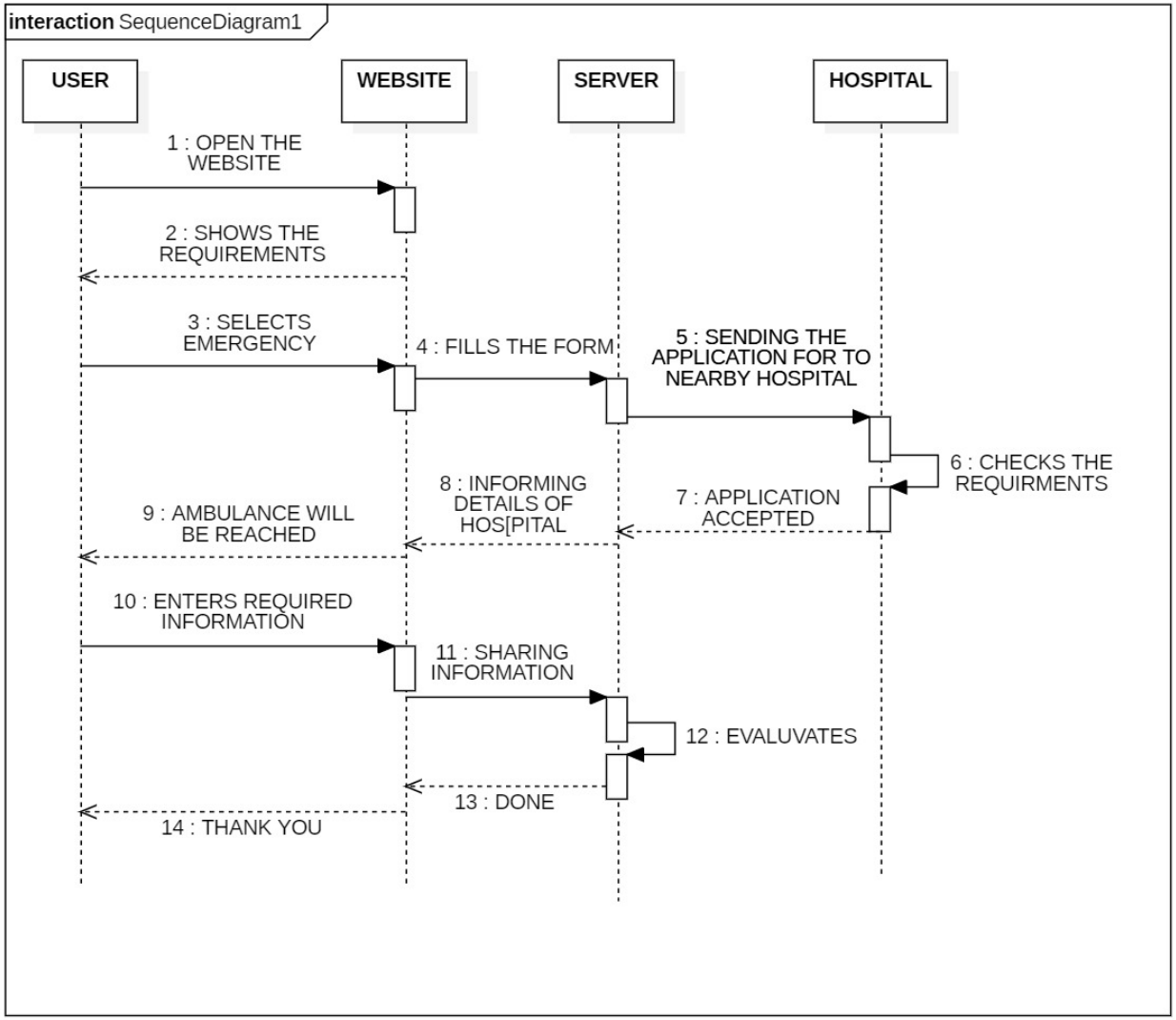
Use Case Diagram



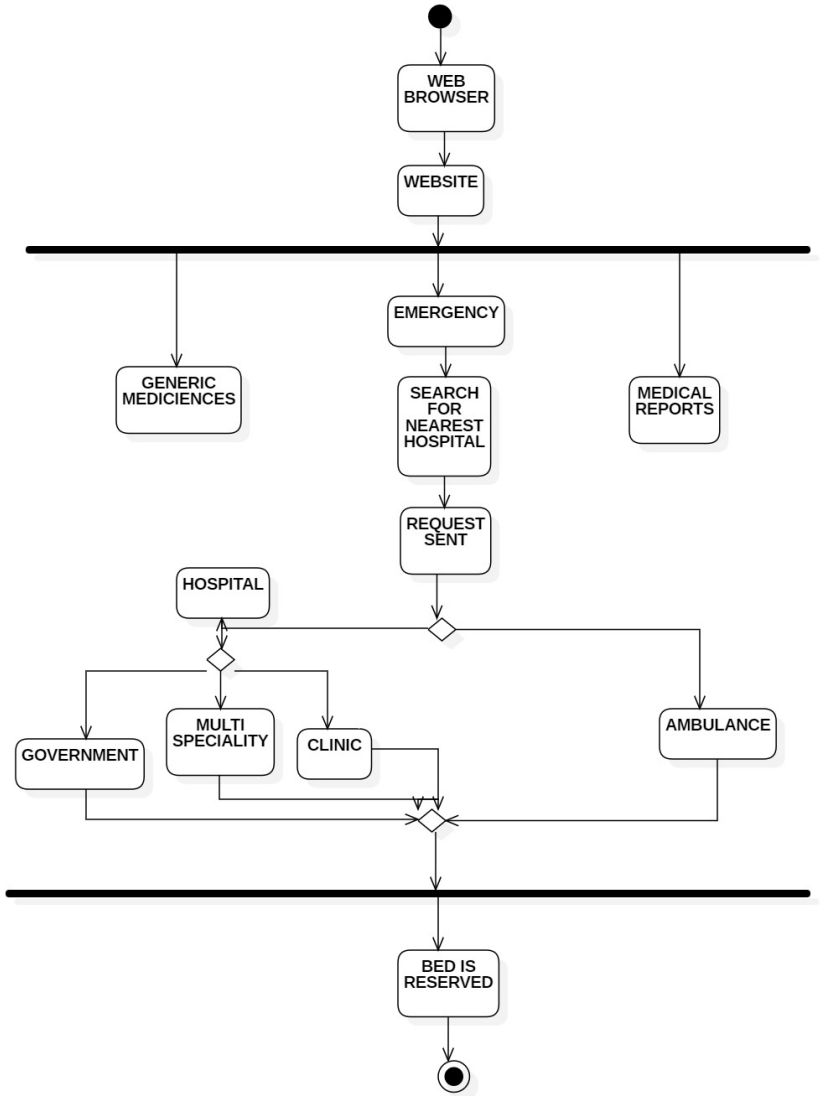
Class Diagram



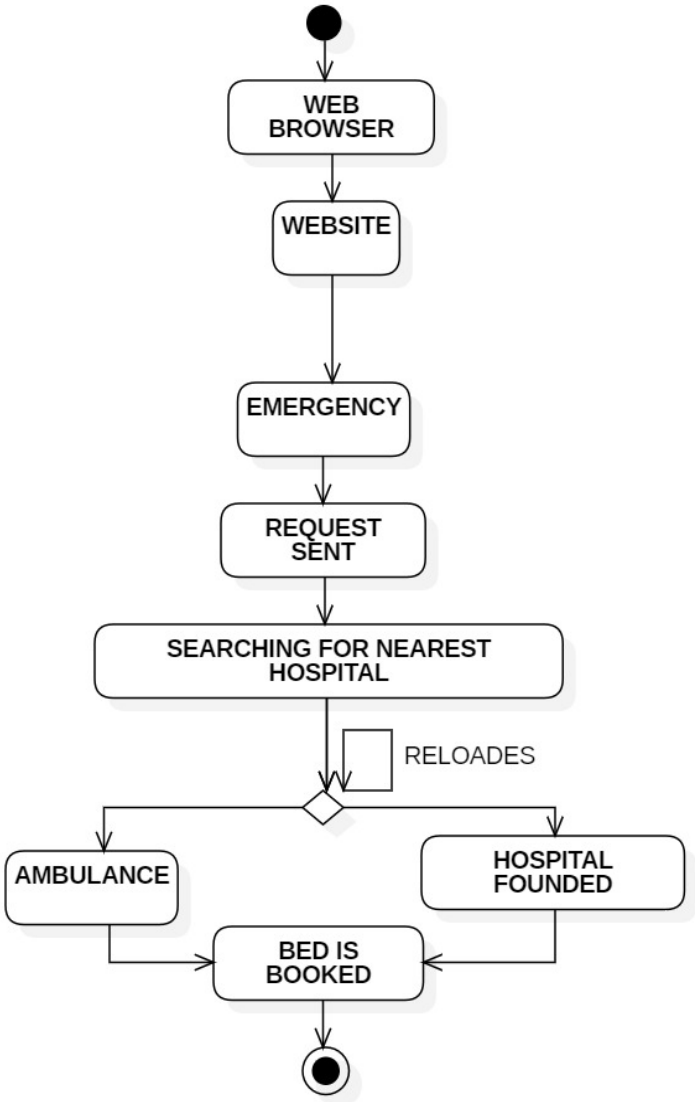
Sequence Diagram



Activity Diagram



State Chart Diagram



Proposed Method And Algorithms

- We have browsed a variety of websites, including Med Plus, Apollo, and others. Therefore, we have looked at a few reference websites and are attempting to develop a flexible online application for the city.

Thank You