

BED SLOT BOOKING SYSTEM

Introduction:-

The main objective of this application is to build an online bed slot booking platform, which allows a user to book a bed in a preferred hospital looking at the number of beds available. In some situation the main issue of the common people to get a bed and unavailability of oxygen and other treatment from hospital. This web application help the people to check the availability of the bed and book the bed.

The project Bed Slot Booking System includes registration of patients, storing their details into the system. The software has the facility to give a unique id for every patient and stores the details of every patient automatically. It includes a facility to know the status of availability of beds at each listed hospital.

Objectives:-

The objective of a bed slot booking system project is to create a digital platform that facilitates the efficient and organized allocation of hospital beds for patients .

1. To facilitate online appointments and reduce the waiting time for bookings.
2. Real-time Availability Information: Provide up-to-date information on the availability of beds in different hospitals, helping patients and healthcare providers make informed decisions.
3. Reduce Overcrowding: Help in preventing overcrowding in hospitals by allocating beds based on need, thus ensuring that the healthcare system can handle the demand.
4. User-Friendly Interface: Develop a user-friendly platform that allows patients or their caregivers to easily search for and book available beds.

Tools/platform :-

The following requirements are only the minimal requirements to run this utility more successfully and efficiently, there should be sufficient memory and software tools for efficient processing.

HARDWARE SPECIFICATION: -

Processor : i3 or above

Speed : 2.2 GHz

Hard Disk : 1 TB

Key Board : standard Window key Board

RAM :2GB

SOFTWARE SPECIFICATION:-

OS : windows 8 or above

Front End : HTML, CSS, JAVA SCRIPT, Bootstrap

Back End : python Flask,SQLAlchemy

IDE : visual studio code

Problem Definition:-

During the pandemic, healthcare systems around the world have faced numerous challenges in efficiently allocating and managing hospital beds for patients. The surge in cases, fluctuating demand for healthcare resources, and the need for quick and fair allocation have highlighted the need for a bed slot booking system. The main problems this project seeks to address are:

1. Limited Bed Availability: Hospitals often experience fluctuations in bed availability due to surges in COVID-19 cases. This leads to overcrowding, delayed care, and suboptimal resource utilization.

2. Manual Booking Processes: Many hospitals rely on manual processes for bed allocation, which are slow, error-prone, and lack transparency. This can result in inefficiencies, confusion, and unfair distribution of beds.

3. Lack of Real-time Information: Patients and their caregivers struggle to access up-to-date information about bed availability. This leads to uncertainty and difficulty in making informed decisions about seeking medical care.

Basic Functionalities of The Project:-

1) ADMIN

- Login
- Add Hospital

2)HOSPITAL

- Login
- Add Hospital data
- Manage hospital details
- View details

3)USER

- Login
- Register
- Book Bed Slot
- Add and View patient detail