



HOSPITAL MANAGEMENT SYSTEM

Hospitals are an essential part of our lives, providing the best medical facilities to people suffering from various ailments due to the various reasons.

It is necessary for hospitals to keep track of its day-to-day activities & records of its patients, doctors, nurses, ward boys and other staff personals that keep the hospital running smoothly & successfully.



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Why we need a hospital management system?



Keeping track of all the activities and the records on paper is very cumbersome which results in a lot of manual work and also leads to errors. so it is very inefficient and also time-consuming process using the manual system to record this.



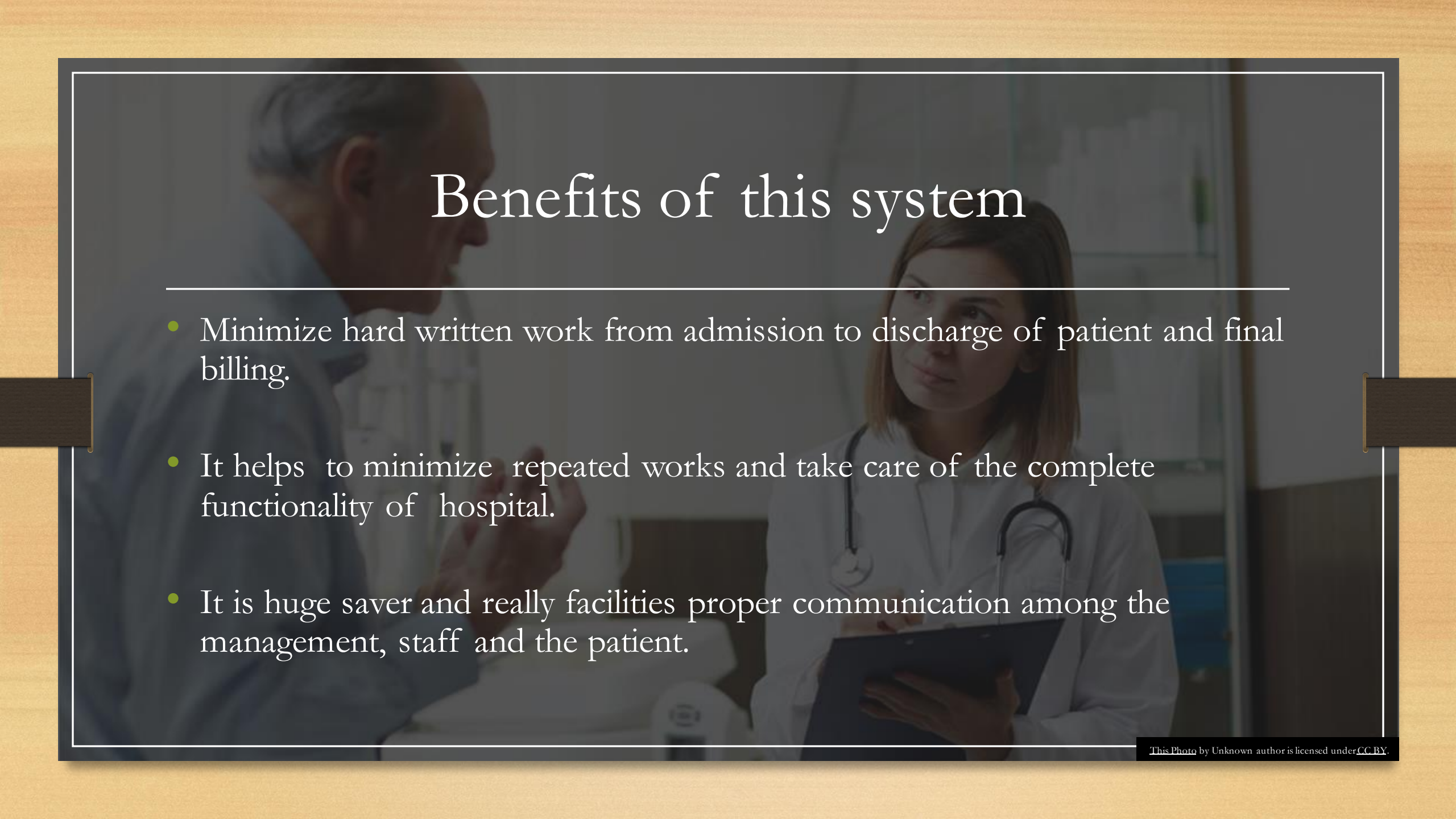
It is also not economically and technically feasible to maintain these records on paper.



Thus keeping the work of the manual system as the basis of our project, we have developed an automated version of the manual system.

What is hospital management system?

- The Hospital Management System(HMS) is designed for any hospital to replace their existing manual, paper based system. This system targets to provide a complete solution for hospital and health care services.
- It integrates the entire resources of a hospital into one integrated software application.
 - Support of clinical and medical patient care activities in the hospital.
- This system also provides the security of data at every level of user-system interaction.



Benefits of this system

- Minimize hard written work from admission to discharge of patient and final billing.
- It helps to minimize repeated works and take care of the complete functionality of hospital.
- It is huge saver and really facilitates proper communication among the management, staff and the patient.

IMPLEMENTATION

- Implementation is the stage of the project once the theoretical style is clad into an operating system. so it will be thought of to be the foremost crucial stage in achieving a successful new system and in giving the user, confidence that the new system can work and be effective. The implementation stage involves careful designing, investigation of the prevailing system and its constraints on implementation, planning of ways to attain transformation, and analysis of transformation ways

Main objective of this system



COMPUTISING ALL THE
DETAILS REGARDING PATIENT'S
AND DOCTORS.



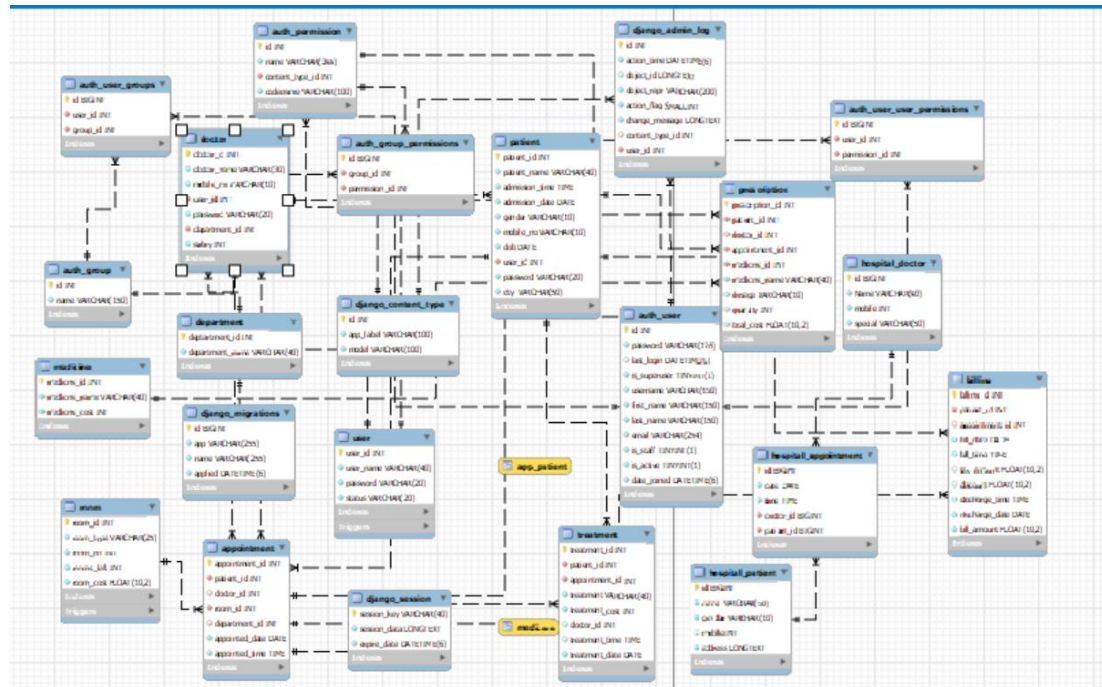
LISTING OUT THE INFORMATION
OF THE PATIENT'S APPOINTED
ALONG WITH THE TIME AND
DATE OF APPOINTMENT.



SCHEDULING THE SERVICES OF
SPECIALISED DOCTORS AND
EMERGENCY.

Modules of application

Overall modules divided into patient management, doctor management, and appointment management.



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- The Hospital Management System will be entered by employing a username and password. it's accessible either by an associate degree administrator or secretary.
 - They'll add knowledge into the info. the information will be retrieved simply.
 - The information square measure is well protected for private use and makes the information process in no time.



Patient and doctor management

When a new patient or doctor are added that respective person's information is added to the existing tables. We can also view the details of patients and doctors

However, this patient table and doctor table are connected to the appointment table.

Appointment management



The appointment table is connected to the patient and as well as the doctor table so that the appointed person gets consulted by a particular doctor.

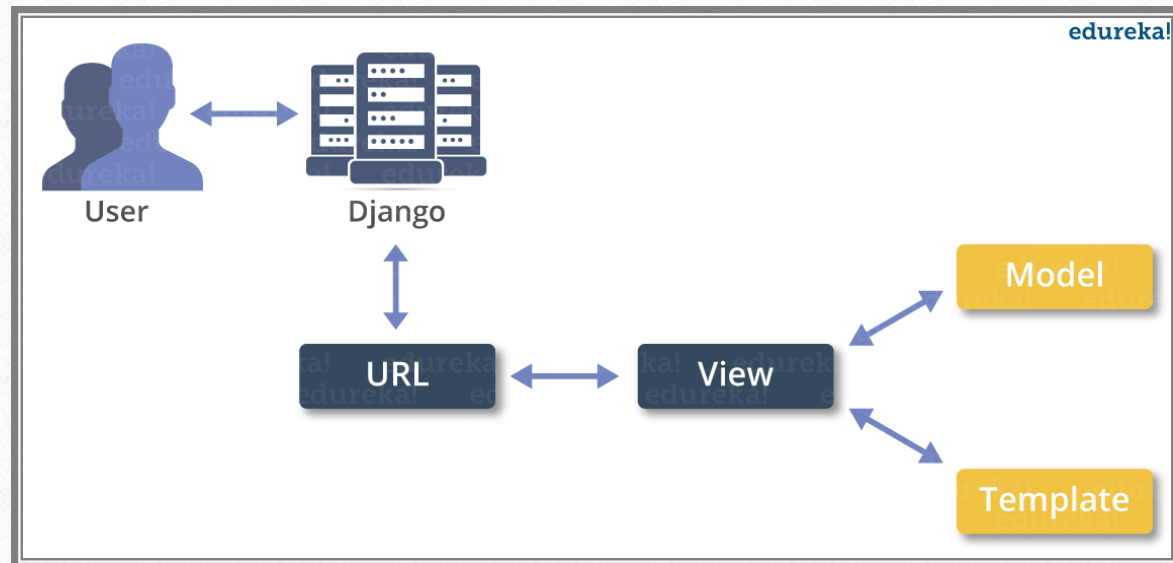
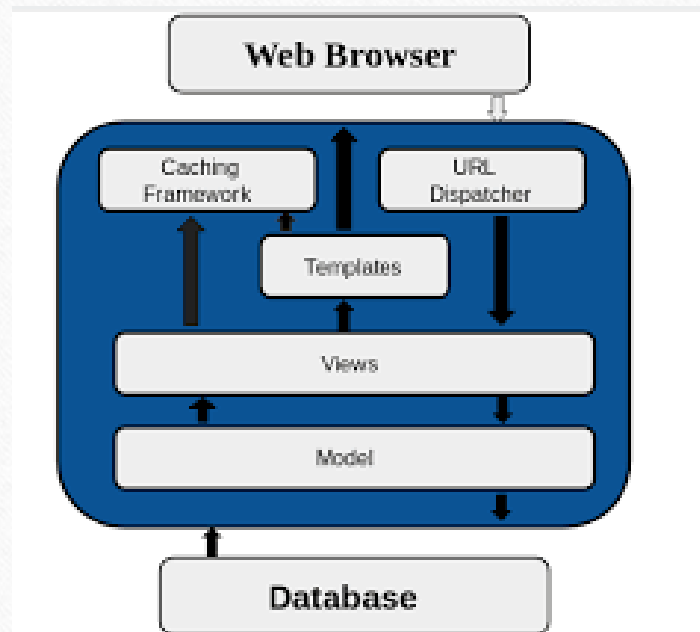


The date and time of the patient appointed is also mentioned and written in the table.

TECH STACK

- IDE used:
VSCode
- Coding languages:
HTML5,CSS,Python3
- Frame work:
Django
- Database:
MySQL

Django Workflow

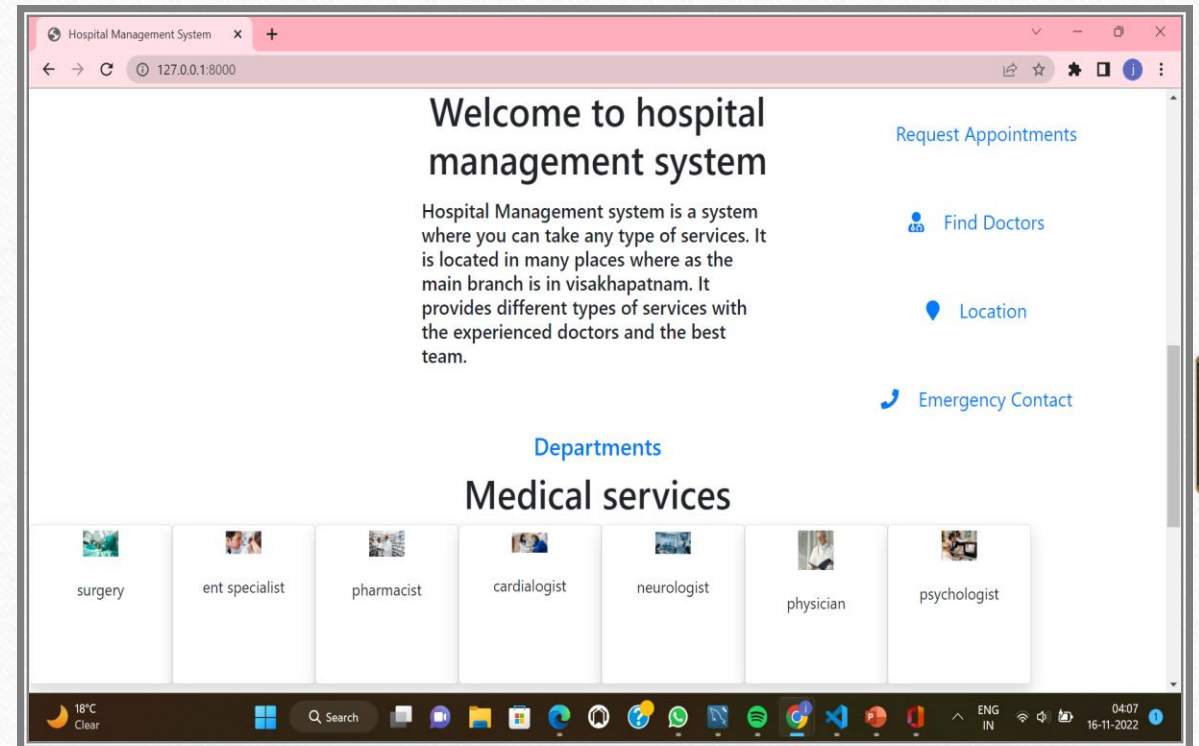
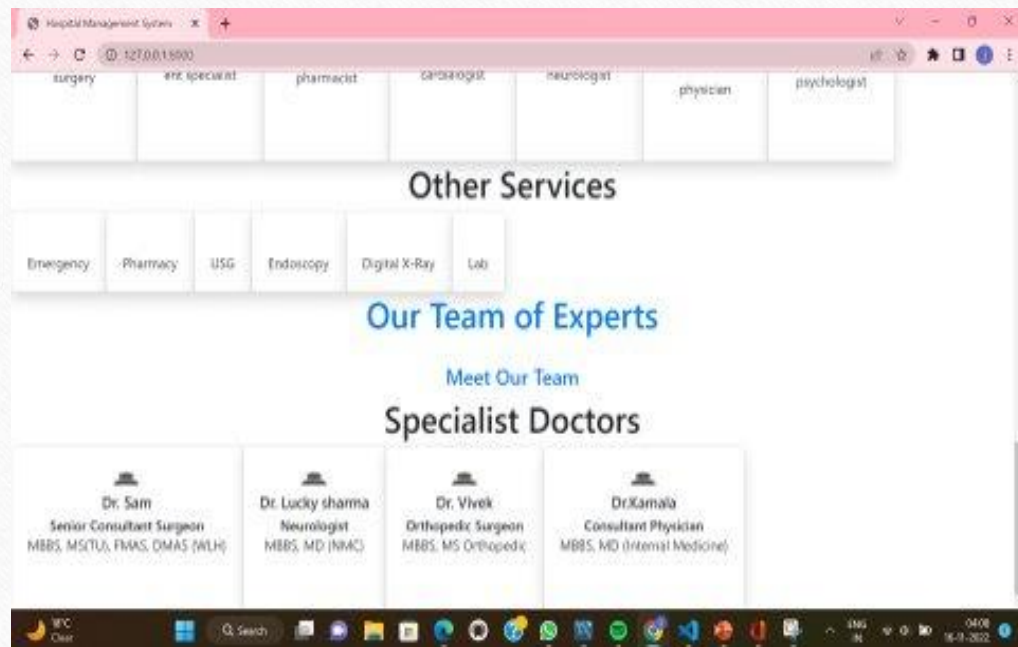


Conclusion

- This is to develop and implement a Hospital Management System built using Django web framework. The developed system is efficient in automating hospital management. The system will eliminate all manual errors, effectively manage hospital operations, and improve patient satisfaction by providing quality healthcare and other advantages. The system will improve the overall hospital's functioning

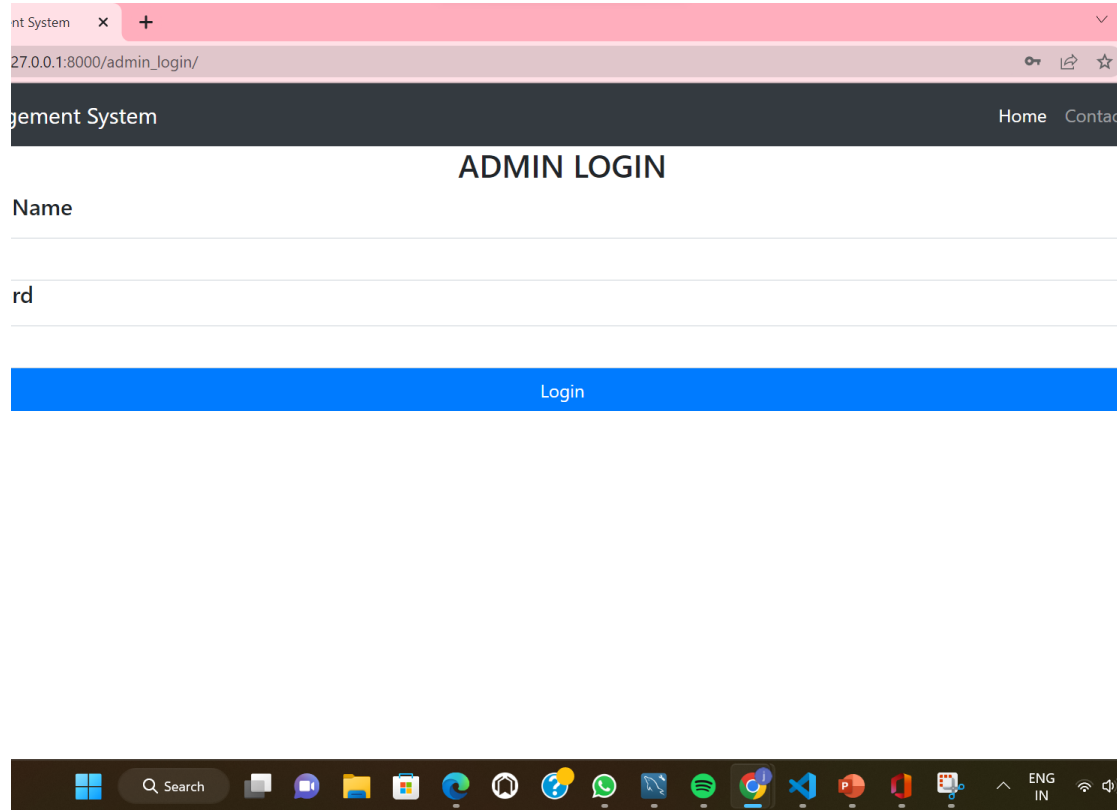
Application preview

-home page



Login process

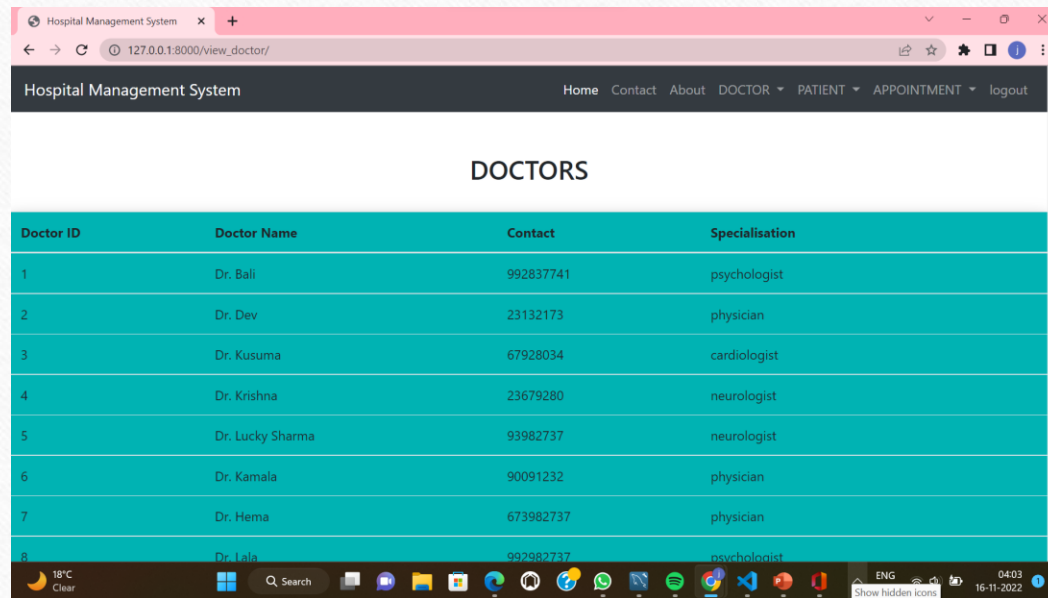
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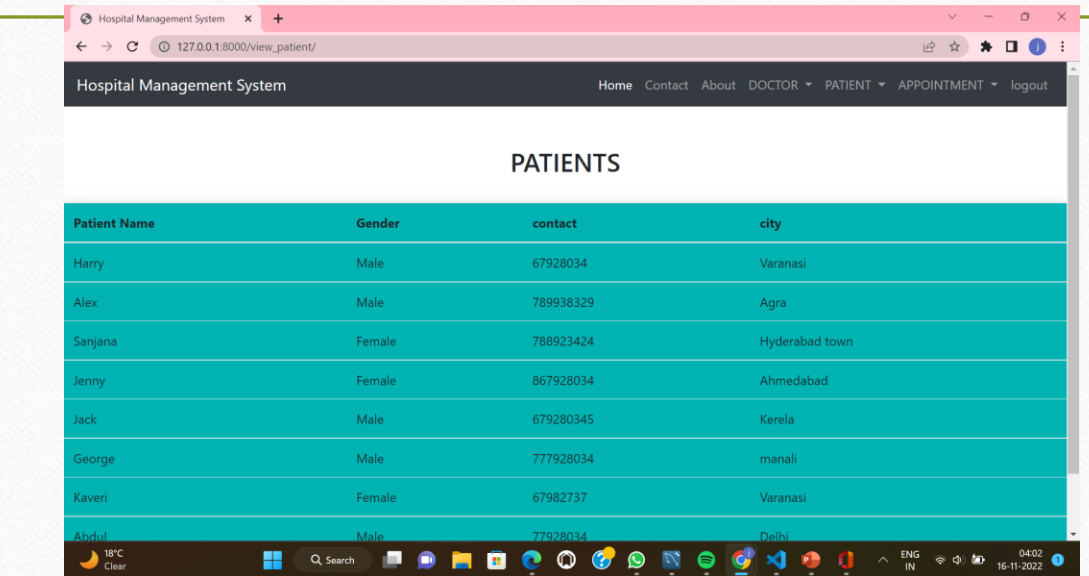
Login page

The corresponding admin have to enter his username and password to edit and view the page.

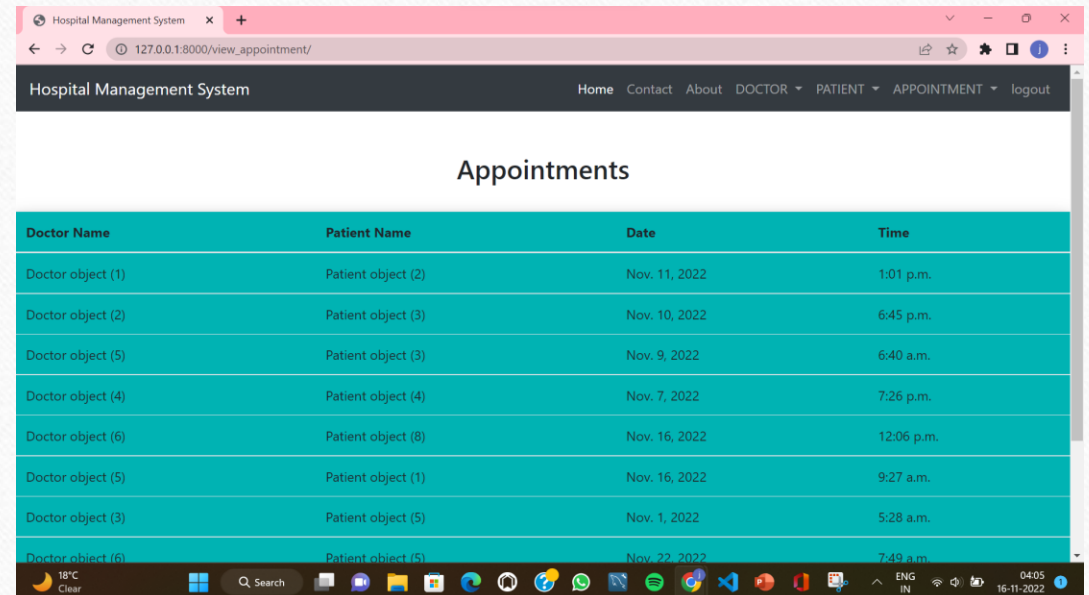
The information of the doctor and patient are seen like this



Doctor ID	Doctor Name	Contact	Specialisation
1	Dr. Bali	992837741	psychologist
2	Dr. Dev	23132173	physician
3	Dr. Kusuma	67928034	cardiologist
4	Dr. Krishna	23679280	neurologist
5	Dr. Lucky Sharma	93982737	neurologist
6	Dr. Kamala	90091232	physician
7	Dr. Hema	673982737	physician
8	Dr. Lala	992982737	psychologist



Patient Name	Gender	contact	city
Harry	Male	67928034	Varanasi
Alex	Male	789938329	Agra
Sanjana	Female	788923424	Hyderabad town
Jenny	Female	867928034	Ahmedabad
Jack	Male	679280345	Kerala
George	Male	777928034	manali
Kaveri	Female	67982737	Varanasi
Abdul	Male	77928034	Delhi



Doctor Name	Patient Name	Date	Time
Doctor object (1)	Patient object (2)	Nov. 11, 2022	1:01 p.m.
Doctor object (2)	Patient object (3)	Nov. 10, 2022	6:45 p.m.
Doctor object (5)	Patient object (3)	Nov. 9, 2022	6:40 a.m.
Doctor object (4)	Patient object (4)	Nov. 7, 2022	7:26 p.m.
Doctor object (6)	Patient object (8)	Nov. 16, 2022	12:06 p.m.
Doctor object (5)	Patient object (1)	Nov. 16, 2022	9:27 a.m.
Doctor object (3)	Patient object (5)	Nov. 1, 2022	5:28 a.m.
Doctor object (6)	Patient object (5)	Nov. 22, 2022	7:49 a.m.

We can add the appointments
and also information about the
patient and doctors.

The screenshot shows the 'ADD DOCTOR' form in a web browser. The browser's address bar shows the URL '127.0.0.1:8000/add_doctor/'. The page has a dark header with the title 'Hospital Management System' and navigation links: Home, Contact, About, DOCTOR, PATIENT, APPOINTMENT, and logout. The form itself is titled 'ADD DOCTOR' and contains four input fields: 'Doctor ID', 'Doctor Name', 'Mobile', and 'Specialisation'. A blue 'SUBMIT' button is at the bottom of the form. The Windows taskbar at the bottom shows the date as 16-11-2022 and the time as 04:03.

This block contains two screenshots of the Hospital Management System interface. The top screenshot shows the 'ADD PATIENT' form, which has input fields for 'Patient Name', 'Gender', 'Mobile', and 'City', followed by a blue 'SUBMIT' button. The browser address bar shows '127.0.0.1:8000/add_patient/'. The bottom screenshot shows the 'ADD APPOINTMENT' form, which includes input fields for 'Doctor Name', 'Patient Name', 'appointed date' (with a date picker icon), and 'appointed time', followed by a blue 'SUBMIT' button. The browser address bar shows '127.0.0.1:8000/add_appointment/'. Both screenshots show the same dark header and Windows taskbar with the date 16-11-2022.

Project
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Individual contribution

S.JAHNAVI : Designing the Application, the backend operations such as creating views, models, forms, server operations and some styling of html pages.

B.NISHKALA: Front-end operations such as designing HTML pages and styling those HTML pages.

