Topic - Online Hospital Management System

Project Group Members :-

1. Anukesh Bhosale – 69870
2. Saurabh Sapte – 69750
3. Akshay Deshmukh – 70027
4. Nishant Hargude – 70093
5. Sagar Pokale - 70466

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**who is your end user?**

Ans -

* Admin:- Admin is the highest privileged user, who can Manage all Resources and Activities of Online Hospital Management System.
* Patient:- Patient can easily book appointment and able to access medical History. Also patient can register himself on website directly.
* Doctor:- Doctors can check scheduled Patients and also give prescription to their Patient.
* Receptionist:- Receptionist can admit and discharge the patient with concern of doctor. Also Schedule doctor to patients as per their primary symptoms mentioned by patient while booking appointment. Also Allocate Ward to Patient while admitting him.
* Accountant:- Accountant can generate Invoice and Manage all transactions.

**What is your Project Objective?**

Ans –

The objective of the “online hospital management system” is to simply track the knowledge of all the staff, patients, treatment provided, and prescription and also to produce periodic reports for analysis. The main goal of the software is to make a decent management tool. The main purpose of this software is to cut back the time taken through the manual system so as to take care of all the records. This project is helpful to cut back the time and quality of maintaining the records. It also helps the incorrect maintenance of patient and patient details. This project has GUI primarily based software system that can facilitate storing, updating, and retrieving the information through varied user- friendly menu-driven modules.

We Maintain Following Records in Database –

* Patient Records: In this module, there are 2 sorts of patient’s records:
  + The features includes patient registration. And each patient is given a registering no. It also includes Doctor Advisor details, Diagnosis details, treatment details, and prescription details.
  + Once the patient is admitted he/she will be allotted to a needed ward. Mainly it includes Medical Reports.
* Staff Records: In this module, Staff Records square measure maintained.
  + We have 3 sorts of Staff that are Doctors, Receptionist, Accountant. We maintain their all details in database.
  + Also we are maintaining doctor daily schedule in database as per selected by Doctor.
* Medicine Records: In this module medicine records square measure maintained.
  + Medicine price, Prescription recommended by doctor, Medicine Quantity recommended to patient, Medicine should take how many times in a day recommended by doctor.
* Ward Records: In this module ward records are maintained.
  + There are completely different sorts of wards like General, ICU, OPD Special, etc. Each ward capability can be noted.
* Billing Records: In this module, bills for inpatient and patient square measures generated.
  + It includes clearance details of patients. Depending on the payments bill report is generated. It includes Medicine charges, Doctor fee, Bed charges per day and on the basis of this we calculate Total amount will pay to patient.

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Description of Project –

The project Hospital Management system includes registration of patients, book appointment, storing their details into the system, and also check and maintain hospital resources in database also maintain hospital employee record.

There are more features like Doctor can select their weekly schedule, in short project used to deal with day-to-day operations and management of hospital activities.

Also, hospital management system simplifies the work of healthcare professional and there interaction with patients, and also help to reduce paper work.

We Implement Spring security JWT auth, User validation handling, exception handling, Role based auth, Pagination for Backend.

For Frontend we use React.js, Bootstrap, Html, NPM and JSON format for data transferring. We use MySQL database.

Also we are using Docker for deployment of project, AWS used for host project on server and Git and Jira used in daily activities of project phase.

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##Scope / Functionalities :-

# Admin Rights :

- View Doctor List

- View Patient List

- Add Employee

- Remove Employee

- Check Resources

- Update Resources

# Patient Rights :

- Book an Appointment

- Check Appointment History

- Check Health History

# Doctor Rights :

- Select Weekly Available Day and Time

- Check Appointment List

- Check Resources

# Receptionist Rights :

- Check Appointment List

- Admit Patient

- Discharge Patient

- Check Resources

# Accountant Rights :

- Check Patient List

- Update Payment Status of Patient

- Generate Invoice of Patient Payment

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