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A WEB APP FOR HOSPITAL APPOINTMENT SCHEDULING

¹Srinidhi H, ²Taskeen Zaid, ³Rakshith M Arunachalam, ⁴Dinesh Yadav, ⁵Sujay Kumar and ⁶Ashik Kumar

^{1,3,4,5,6}Student, ²Associate Professor,

^{1,2,3,4,5,6}School of Computer Science and IT

^{1,2,3,4,5,6}Jain (Deemed-to-be University)

Abstract: The Hospital Management System application is a web-based application designed to benefit hospitals. The purpose is to make the hospital work online. This application covers modules like Patient registration, Medicine prescription, Admin module, patient appointment, billing facility as per patient's status, and record modification. This application also maintains the patient's diagnosis report and inform test to be done as per prescriptions. Diet advice to the patient is also available in this application.

Keywords: PHP, XAMPP, HTML, CSS, Java script

1.INTRODUCTION

The hospital provides medical facilities to the consumers who are suffering from various infections and diseases, psychological disorder, or any problem related to climatic conditions. It is important for the hospitals to keep track of all the activities, records, patient's status for running hospital functioning smoothly.

It is very time consuming process and error prone to maintain and track the day to day activity. The staff and administrators work load is also increasing due to the improper coordination and paper work. This manual system is very time consuming for patients. The manual system is complex. In this work we have developed an automated system. The main aim of this work is to create work of hospitals paperless. This system is low-cost and offers reliability to the patient's, staff and administrators. This system will provide excellent security of data at every level of user-system interaction and also provides robust & reliable storage and backup facilities.

By this web application User can login through his user name and password he can book his appointment to the Doctor, he can see his appointment history. Like that Doctor can also manage and see the patience list and manage it they also can login through their credentials and admin can also login through his credentials and see the patience details and doctors' appointments. User/Doctor/Amin can edit their profile anytime.

2.BACKGROUND

2.1 .MYSQL:MYSQL is one of the leading database service provider and it is an open source which is developed by leading company oracale .It supports almost all operating systems like windows, linux , and many more. It is used to store data and it is combination of rows and columns. Its syntax is also user friendly .We can also call it as repository where we can store data in arranged way. There are lot of database providers but MYSQL is the leading database provider because of its user friendly user interface.

2.2 Java Script

Java script is a object-oriented programming language. which is generally used for scripting the webpages. It provides dynamic interaction on websites when it is used in HTML file.

By this Java script we can create modern web apps for interacting directly page without need of reloading it.

2.3 HTML

HTML (Hyper Text Markup Language) .The HTML file can save by adding extension .html to the file. We can add images, text, buttons, check box, and many more to web page. It is mainly used to create a web page. It is User friendly and it supports various plugins to it like CSS for designing the web page and java script.

2.4 PHP

PHP: Hypertext Preprocessor is a server-side scripting language which is used to create web site, it is open source, easy to learn, and it uses MySql and provides efficiency.

2.5 CSS

CSS (Cascading Style Sheet) used for styling the sheets. By using it we can design the web pages it may be created by using HYML .It is developed by World Wide Web Consortium (W3C).It determines how the content in the page should be look.

2.6 XAMPP

XAMPP is an open source platform .It supports various operating systems like windows, MacOS, Linux. It is one of the leading web server providers.

3. RESEARCH METHODOLOGY

When localhost/hospital server is opened you will be viewing the main page of the project Hospital Management system will be viewed and in the right-hand corner you will be able to view Home and contact button.

Home: It is an icon in the web page that will take the user to starting point of the site.

Contact: will give information address, email and contact of this particular hospital.

In the main page you will be able to view three modules which are

- i. Patient
- ii. Doctor login
- iii. Admin login

If a patient logs in he will enter into the Patient portal from which he will be able to login through his username and password.

If the patient is new, he can create a new account using his email & password.

After he logs in, he will be able to view a window.

- i. Dashboard
- ii. Book appointment
- iii. Appointment history

Dash board you will view

- i. My profile
- ii. My Appointment
- iii. Book my Appointment

My Appointment: The already logged in user can check his/her appointment date and time.

Book my Appointment: when patient clicks on book my appointment, he will be able to view different specialisations pertaining to the patient requirement he can choose a particular doctor. When filled the doctor choice, It will ask for date and time for appointment.

If the doctor is available on the particular date and time the appointment will be confirmed. Next you will view the consultation fee if the patient is ok then he can submit after that the appointment will be booked.

Appointment history: It will state the record of the patient past health

- 1)Number of visits
- 2)Doctor visited
- 3)Date and Time of visits
- 4)consultation fee
- 5)Current status

Doctor Login: When the doctor logs in using his username and password.

Admin login: When a hospital Admin logs in using his Authorized user name and password. He will be able to view Admin Dashboard

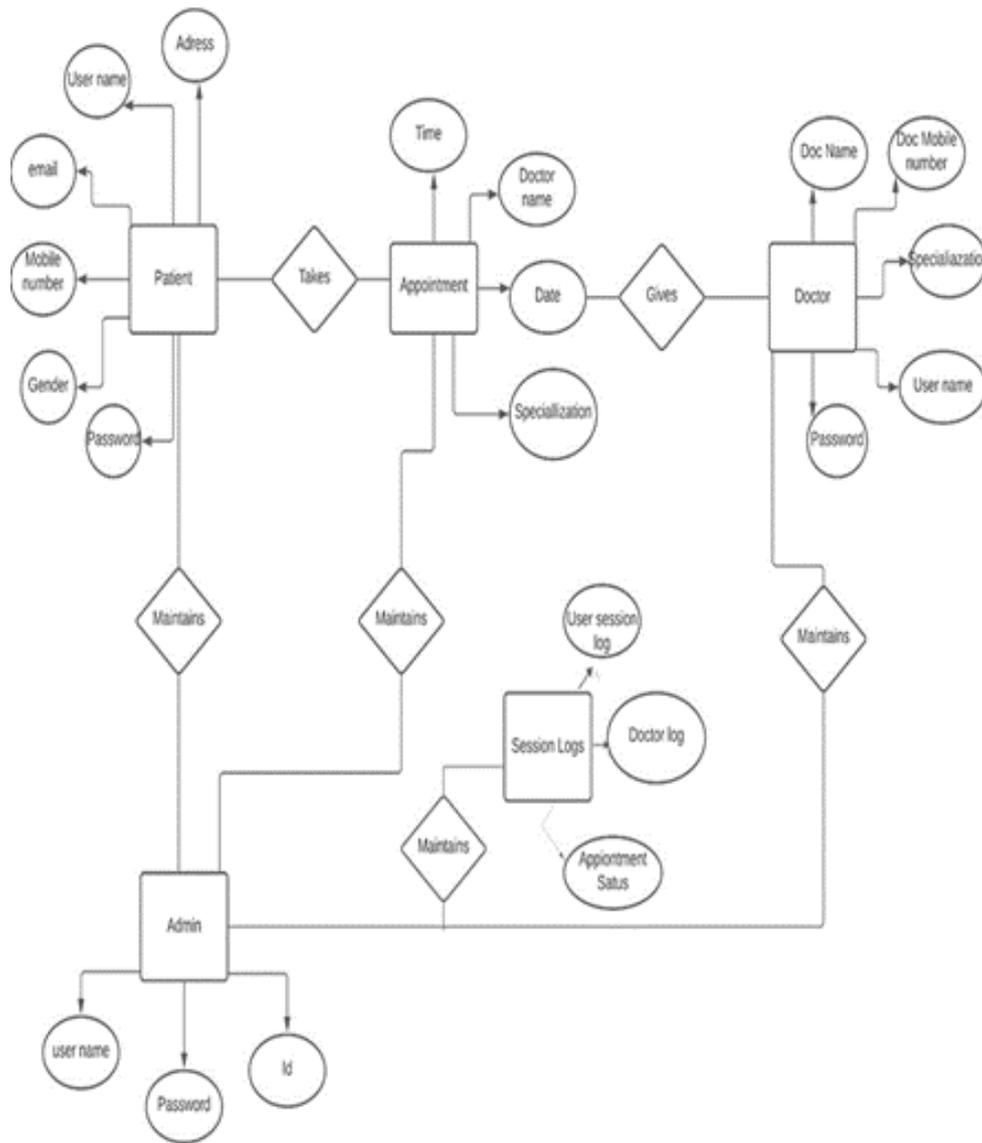
- i. Manage patient- total number of patients
- ii. Manage Doctors- total number of doctors
- iii. Appointment- total number of appointments

The admin will be able to view

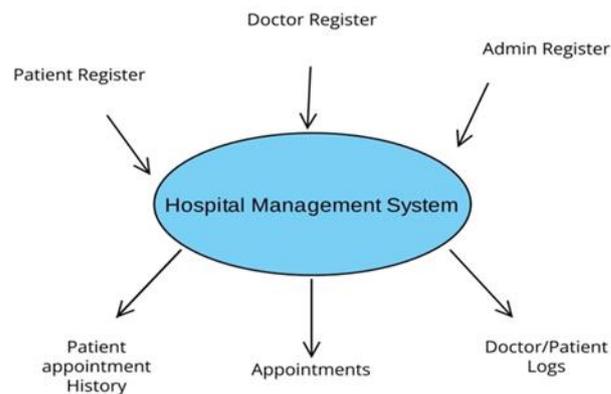
- i. Doctors specialization: if required he can add or manage doctors
- ii. patients: Manage patients with different Queries.
- iii. Appointment history: Admin can view all the Appointments
- iv. Doctor session Logs: Admin will be able to view doctor's user id, username, user Ip, login and logout time and status.
- v. User session logs: The Admin will be able to view patient's user id, username, user Ip, login and logout time and status.

4. ANALYSIS AND DESIGN

4.1 ER DIAGRAM



4.2 CONTEXT DIAGRAM



5.CONCLUSION

The hospital Management System application is designed to benefit the hospitals and patients. The application is designed to computerize the working of hospital. This application is capable of generating test reports, doctor appointment online, patient registration, billing facility on the basis of patient's report. This application also facilitates the patient's report modification.

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