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**SIPNA COLLEGE OF
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AMRAVATI**

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**SIPNA COLLEGE OF ENGINEERING & TECHNOLOGY,
AMRAVATI.**

Department of Computer Science and Engineering

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A PROJECT REPORT ON
HOSPITAL MANAGEMENT SYSTEM

Submitted for
DATABASE MANAGEMENT SYSTEM LAB

Submitted in
November 2023

Under The Guidance Of
Prof. N. G. Rathi

**SIPNA COLLEGE OF ENGINEERING & TECHNOLOGY,
AMRAVATI**

CERTIFICATE

This is to certify that this mini project report entitled

“ HOSPITAL MANAGEMENT SYSTEM ”

has been completed by the following students in the partial fulfillment of project work of the fifth semester, Department of Computer Science and Engineering, During the Academic Session of 2023-2024. This is the record of their work under my guidance and to my immense satisfaction.

Prof. N. G. Rathi

Project Guide

Dr. V.K. Shandilya

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ACKNOWLEDGEMENT

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SIPNA C.O.E.T., Amravati.

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Abstract

“Hospital Database Management System” is designed to make the existing manual system automatic with the help of Computerised equipment and full-edged computer software, fulfilling their requirements, so that their valuable data and information can be stored for a longer period with easy access and manipulation of the same. The required software is easily available and easy to work with. This web application can maintain and view computerised records without getting redundant entries. The project describes how to manage user data for good performance and provide better services for the client.

Introduction

The proposed project “Hospital Database Management System” has been developed to overcome the problems faced in the practicing of manual system. This software is built to eliminate and in some cases reduce the hardships faced by the existing system. More over this system is designed for particular need of the Hospital to carry out its operations in a smooth and effective manner. This web application is reduced as much as possible to avoid errors while entering data. It also provides error message while entering invalid data. It is Hospital-friendly as no formal knowledge is required to use the system. Human resource challenges are faced by every organization which has to be overcome by the organization. Every organization has different hospital management needs. Therefore I have design exclusive Hospital Management System that are adapted to the organization’s Managerial Requirements.

Software Requirements

The technology selected for implementing Hospital Database Management System is PHP,MySQL. Apache is used as the HTTP server. The Development was done in Visual Studio Code.

Frontend Technologies :-

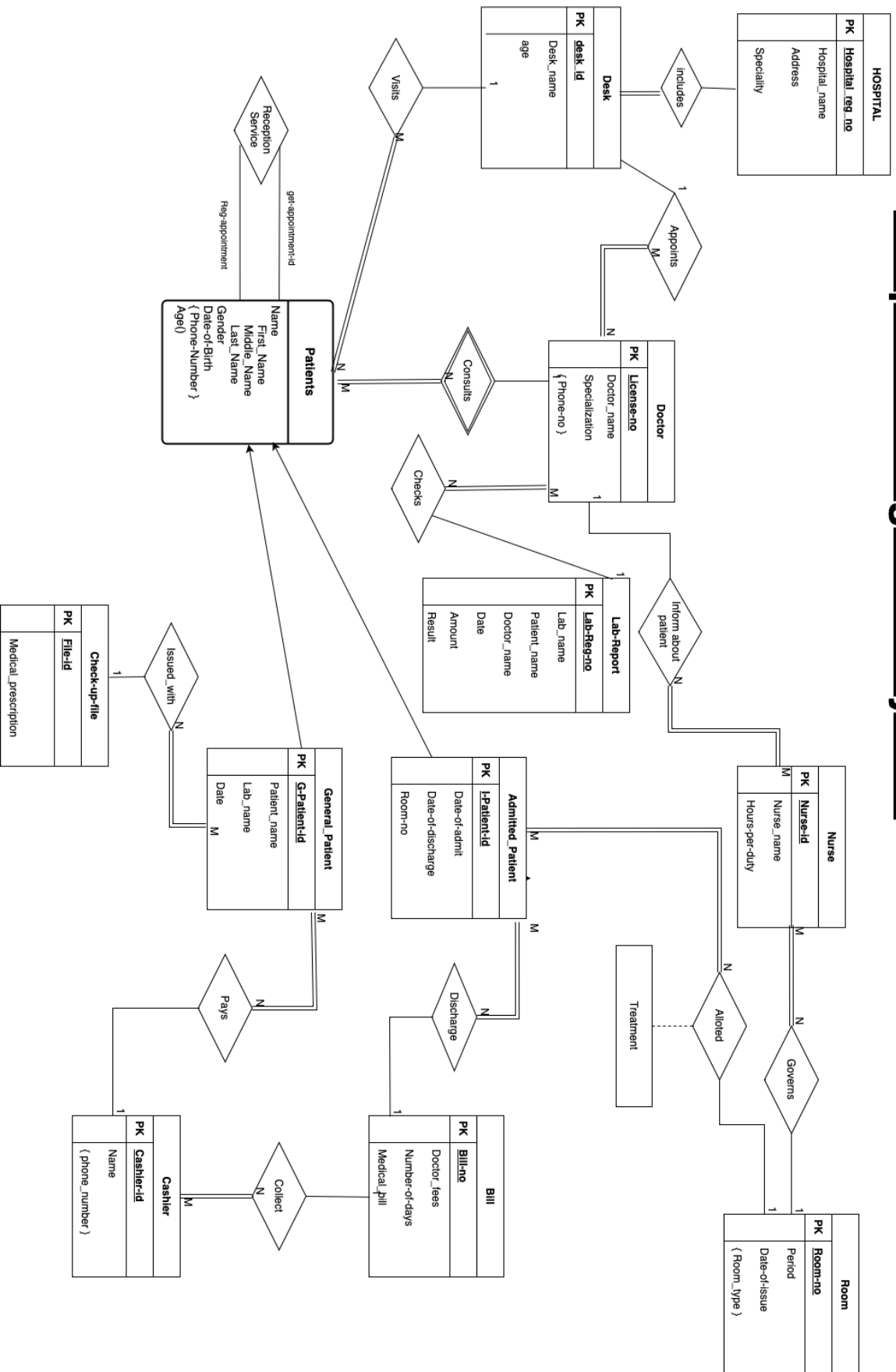
- **HTML :-** The Hyper Text Markup Language, or HTML is the standard markup language for documents designed to be displayed in a web browser. It can be assisted by technologies such as Cascading Style Sheets (CSS) and scripting languages such as JavaScript. Web browsers receive HTML documents from a web server or from local storage and render the documents into multimedia web pages. HTML describes the structure of a web page semantically and originally included cues for the appearance of the document.
- **CSS :-** Cascading Style Sheets (CSS) is a style sheet language used for describing the presentation of a document written in a markup language such as HTML. CSS is a cornerstone technology of the World Wide Web, alongside HTML and JavaScript. CSS is designed to enable the separation of presentation and content, including layout, colors, and fonts. This separation can improve content accessibility; provide more flexibility and control in the specification of presentation characteristics.
- **Javascript :-** JavaScript is a lightweight, cross-platform, single-threaded, and interpreted compiled programming language. It is also known as the scripting language for webpages. It is well-known for the development of web pages, and many non-browser environments also use it. JavaScript is a weakly typed language (dynamically typed). JavaScript contains a standard library of objects, like Array, Date, and Math, and a core set of language elements like operators, control structures, and statements.

- **Bootstrap :-** Bootstrap is the most popular HTML, CSS and JavaScript framework for developing a responsive and mobile friendly website. It is absolutely free to download and use. It is a front-end framework used for easier and faster web development. It includes HTML and CSS based design templates for typography, forms, buttons, tables, navigation, modals, image carousels and many others. It can also use JavaScript plug-ins. It facilitates you to create responsive designs.

Backend Technologies :-

- **PHP :-** PHP is a general-purpose scripting language geared towards web development. It was originally created by Danish-Canadian programmer Rasmus Lerdorf in 1994. The PHP reference implementation is now produced by The PHP Group. PHP originally stood for Personal Home Page, but it now stands for the recursive initialism PHP: Hypertext Preprocessor.
- **MYSQL :-** MySQL is an open-source relational database management system (RDBMS). Its name is a combination of "My", the name of co-founder Michael Widenius's daughter, and "SQL", the abbreviation for Structured Query Language. A relational database organizes data into one or more data tables in which data types may be related to each other; these relations help structure the data.

Hospital Management System



Database Design (ER-Diagram)

Snapshots :-

The screenshot shows the homepage of a Hospital Management System. At the top, there is a header with the title "Hospital Management System" and a navigation bar with links: "Home", "Specialization", "Departments", and "About". Below the navigation bar, there is a section for "Patient File Report" with a "Generate" button. Underneath, there are four colored buttons for login: "Desk Login" (pink), "Doctor Login" (green), "Lab Login" (yellow), and "Cashier Login" (purple). Each button features a user icon and a vertical dashed line separating the icon from the text.

1. Homepage

The screenshot shows the "Desk's Login" page of the Hospital Management System. The page has a header with the title "Hospital Management System". Below the header, there is a section titled "Desk's Login". This section contains a "name :" label followed by a text input field, a "Password :" label followed by a password input field, and a "Login" button. There are also links for "Forget Password ?" and "If you are new ? Then REGISTER HERE".

2. Desk's Login Page

Hospital Management System

Welcome At Main Desk's Portel

Logged-IN : manish

Appointment & Scheduling

Delete & Logout

ID	NAME	TREATED BY	TYPE	CHECKED-IN
1	manish	Dr. Raj	Inpatient	DELETE
2	mandar	Dr. Vikas	Inpatient	DELETE
3	jay	Dr. Raj	Outpatient	DELETE
4	rajesh	Dr. Raj	Outpatient	DELETE

Enroll The Patient :

Name :

Age :

Will Treated By :

Type :

Gender : ☐ Male ☐ Female

Valid ID : ☐ Submitted ☐ Not Submitted

ADD

3. Appointment & Scheduling Page

Add New Doctor

Name :

Age :

Specialization

Gender : ☐ Male ☐ Female

Valid ID : ☐ Submitted ☐ Not Submitted

ADD

Workers / Employee

Name :

Work Type :

Gender : ☐ Male ☐ Female

Valid ID : ☐ Submitted ☐ Not Submitted

ADD

4. Empolyee page

Hospital Management System

Welcome , Dr. Raj

Patients Have To Treat Today

[Logout](#)[Lab Reports](#)

Lab Reports

ID	NAME	AGE	TYPE	PRESCRIPTION
1	manish	22	Inpatient	PRESCRIPTION
3	jay	23	Outpatient	PRESCRIPTION
4	rajesh	33	Outpatient	PRESCRIPTION
2	mandar	23	Inpatient	PRESCRIPTION

ID	NAME	OPEN FILE
13	manish	OPEN

5. Lab Reports Page

Medicines And Their Doses.

Enter Here

6. Prescription Page

Hospital Management System

Lab Records

Upload Lab Reports

Name (With Age) :

No file chosen

7. Upload Page

Hospital Management System

Keep The Finances Well_Maintained

Bill Here

Name (With Age) :

No file chosen

Amount (in Rs/-) :

8.Bill Page

File Report :

Generate

Patient File



☐ I Have Read All The Policies & Terms.

PRINT

9.File Page

Conclusion

This project is built for use in hospital management system for the number of employees is limited. According to required requirements the admin can view all the details of the employees .The required records can be easily viewed by the admin anytime he wants in an instant. The main objective of this framework is to save time, make the system cost effective and management records efficiently.