Hospital Portal Web Application:

Code Implementation and Functionality Overview

Overview:

This document provides a detailed review of the Hospital Portal Web Application, a sophisticated tool designed for effective patient data management, appointment scheduling, and supporting hospital administrative tasks. It elaborates on the web application's coding details and operational features.

Technical Framework:

• Coding Language: Python

• Server Technology: HTTPServer

• Data Storage: MySQL

• Application Framework: CGI (Common Gateway Interface)

Code Organization:

The application's code is divided into two primary sections:

• Hospital Portal Module (hospital\_portal.py):

o Manages HTTP requests and the delivery of HTML content.

o Executes functions related to adding patients, organizing appointments, displaying appointment details, and patient checkout processes.

• Database Module (portalDatabase.py):

o Handles interactions with the MySQL database.

o Provides functionalities for patient registration, appointment arrangement, viewing appointments, patient discharge, and retrieving patient details.

Managing Patient Data:

• Adding a Patient (/addPatient):

o Facilitates the entry of new patient details into the system.

o Captures patient's name, ID, age, date of admission, and date of discharge.

• Displaying Patient List (/):

o Shows a comprehensive table of all patients.

o Includes patient ID, name, age, date of admission, and date of discharge.

Organizing Appointments:

• Appointment Booking (/scheduleAppointment):

o Allows scheduling of patient appointments with designated doctors.

o Records details like patient ID, doctor ID, date, and time of the appointment.

• Appointment Overview (/viewAppointments):

o Presents a list of all planned appointments.

o Lists appointment ID, patient ID, doctor ID, date, and time.

Patient Checkout:

• Patient Discharge Process (/dischargePatient):

o Facilitates the discharge of patients using their ID.

o Ensures the removal of the patient's record post-discharge.

Website Design:

• Webpages are designed for seamless user navigation.

• Uniform links across pages for Home, Add Patient, Schedule Appointment, View Appointments, and Discharge Patient.

Summary:

The Hospital Portal Web Application offers an intuitive platform for handling patient records and scheduling. The coding structure is methodically organized, adheres to industry standards, and allows for future enhancements. Its debugging and error management capabilities contribute to its overall effectiveness and dependability.

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