

Hospital Portal System - Overview and Functionalities Report

Introduction:

The Hospital Portal System is a comprehensive solution designed to enhance the efficiency and organization of healthcare facilities. This system incorporates tables, procedures, and views to manage patient information, appointments, and doctor details. The following report provides an overview of the system's key components and functionalities.

1. Patients Table:

Use: The Patients table serves as a central database for patient information. Each patient is assigned a unique identifier (**patient_id**), and details such as name, age, admission date, and discharge date are recorded.

Functionalities:

- **Patient Admission:** Records patient information upon admission.
- **Discharge Management:** Tracks discharge dates for effective patient management.

2. Appointments Table:

Use: The Appointments table facilitates the scheduling and tracking of patient-doctor appointments. It establishes connections between patients and doctors using foreign key references.

Functionalities:

- **Appointment Scheduling:** Allows the creation of appointments with specified dates and times.
- **Relationships:** Establishes relationships between patients and doctors.

Modification:

- **Data Type Update:** Changed the data type of **appointment_time** to TIME for better representation.

3. Procedures:

Appointment Builder Procedure:

- **Use:**
- In charge of the creation of new appointments in the Appointments table.
- **Functionalities:**
- Takes parameters such as patient ID, doctor ID, appointment date, and time.
- Inserts a new appointment into the system.

Patient Dismissal Procedure:

- **Use:**
- Manages patient dismissal by updating discharge dates.
- **Functionalities:**
- Takes the patient ID as a parameter.
- Updates the discharge date for the specified patient.

4. Doctors Table:

Use: The Doctors table stores information about healthcare professionals, including their names and specializations.

Functionalities:

- **Doctor Information:** Maintains a record of doctor names and specializations.
- **Reference for Appointments:** Supports foreign key references in the Appointments table.

5. Doctor_Appointment_Patient_View:

Use: The Doctor_Appointment_Patient_View is a consolidated view that combines doctor details, appointment information, and patient names.

Functionalities:

- **Comprehensive View:** Presents a comprehensive view of doctor appointments and associated patient details.
- **Streamlines Information Retrieval:** Enhances the ease of accessing relevant information.

Conclusion:

The Hospital Portal System streamlines hospital operations by effectively managing patient records, appointments, and doctor information. The combination of tables, procedures, and views provides a user-friendly and efficient platform for healthcare professionals, contributing to the overall improvement of patient care and administrative processes.