Title: Hospital Management System Using Python and MySQL

Group Members:

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Introduction:

The Hospital Management System is a basic software to store and manage patient information easily. We have used Python's Tkinter to create a user interface and MySQL to store the patient details. This system allows us to add, update, delete, and view patient records in a simple way. It shows how Python can be used with MySQL to handle important data.

Description:

In this project, we created a simple program to help hospitals manage patient information. The interface has input boxes where we can enter patient details. The data is stored safely in a MySQL database, and we can add, change, remove, and display records.

Steps:

1. **Setting up the Database:** We created a database and a table in MySQL to store patient details.
2. **Building the Interface:** We made the interface using Python's Tkinter to make it easy to use.
3. **Operations:** Users can add new patients, modify details, delete records, and view the patient list.

Code Snippets:

Creating the Database:

python

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```python
def create_database():
    conn = mysql.connector.connect(
        host="localhost",
        user="root",
        password="Kkodiarsu@1926"
    )
    cursor = conn.cursor()
    cursor.execute("CREATE DATABASE IF NOT EXISTS patient_db1")
    conn.close()
```

Adding a Patient:

python

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```python
def add_patient(self):
    conn = self.connect_database()
    cursor = conn.cursor()
    cursor.execute('''
        INSERT INTO patients (patient_id, name, age, address, mobile, disease)
        VALUES (%s, %s, %s, %s, %s, %s)
    ''', (patient_id, name, age, address, mobile, disease))
    conn.commit()
    conn.close()
```

Output Snippets:

- **Displaying Patients: The patient records are fetched from the database and shown in a table on the screen.**

- **Adding a Patient: After entering the patient details and pressing the "Add Patient" button, the new patient is added and shown in the table.**

Conclusion:

This Hospital Management System is a simple way to manage patient data on a computer. It makes it easy to store, update, and view patient records without using paper. It shows how Python and MySQL can be combined to create practical applications.