PROJECT REPORT

Mini Project in Python Using Database Connectivity.

Hospital Management System

> Introduction :-

Our Hospital Management System project is designed to revolutionize the way hospitals manage administrative tasks.

Our project includes following features:

Patient Information Management

- Add, update, or delete patient records.
- View detailed patient information like name, date of birth, and address.

Prescription Management

- Record prescription details such as tablet names and doses.
- Generate prescription reports for patients.

Database Management

- Connect securely to the MySQL database.
- Perform actions like adding, viewing, updating, and deleting data.

> System Architecture :

Frontend

• Created using Tkinter, providing an easy-to-understand interface.

Backend

• Written in Python, managing data and interactions with the database.

Database

• MySQL is used to securely store patient and prescription data.

➤ Usage:

To use the Hospital Management System:

- 1. Install Python and MySQL.
- 2. Run the Python script (hospital_management_system.py).
- 3. Use the interface to manage patient information and prescriptions

> Steps of Database connectivity:

Step 1: Install the MySQL connector for Python.

Step 2: If you haven't already,open the terminal in vs code and install the MySQL Connector for python using pip command.

Command: pip install mysql-connector-python

Step 3: In your python script in VS code,import the MySQL connector.

Command: import mysql.connector

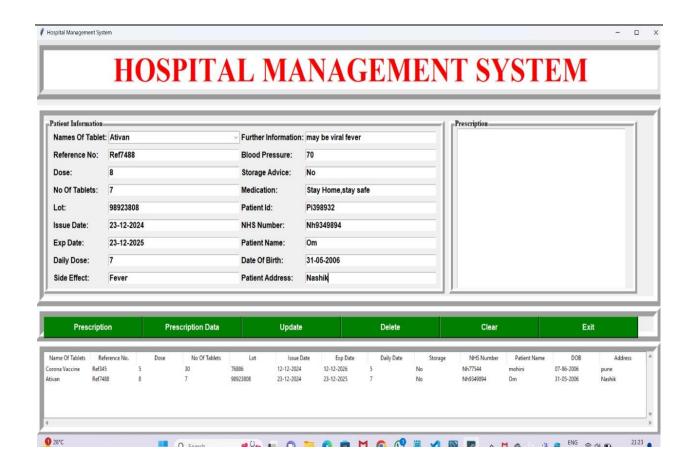
Step 4: Set up a connection to your MySQLdatabse using necessary connection parameters.

```
mydb = mysql.connector.connect(
  host="localhost",
  user="yourusername",
  password="yourpassword",
  database="yourdatabase"
)
```

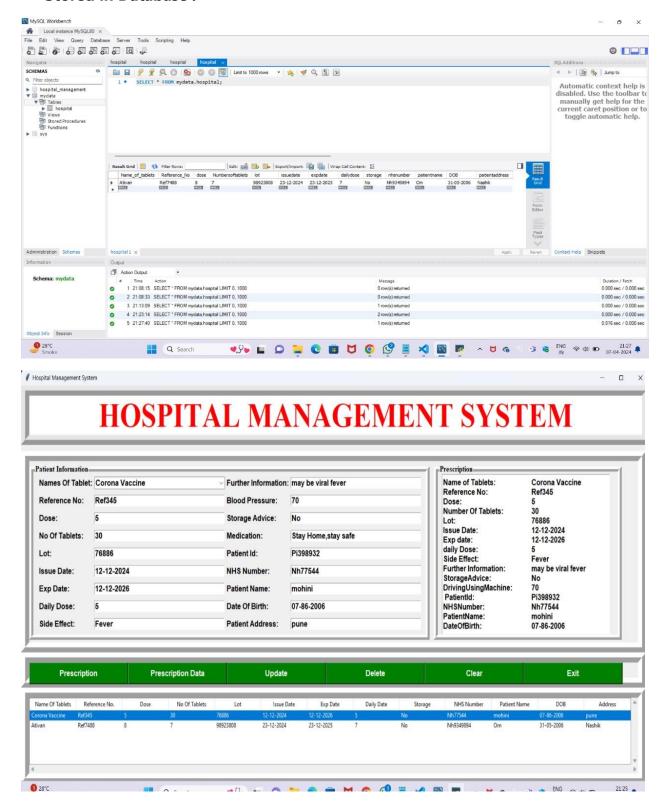
Step 5: If you want to check whether the connection is established or not, then you can execute the print(db). If you see like below statement in the console the connection is established.

> OUTPUT:

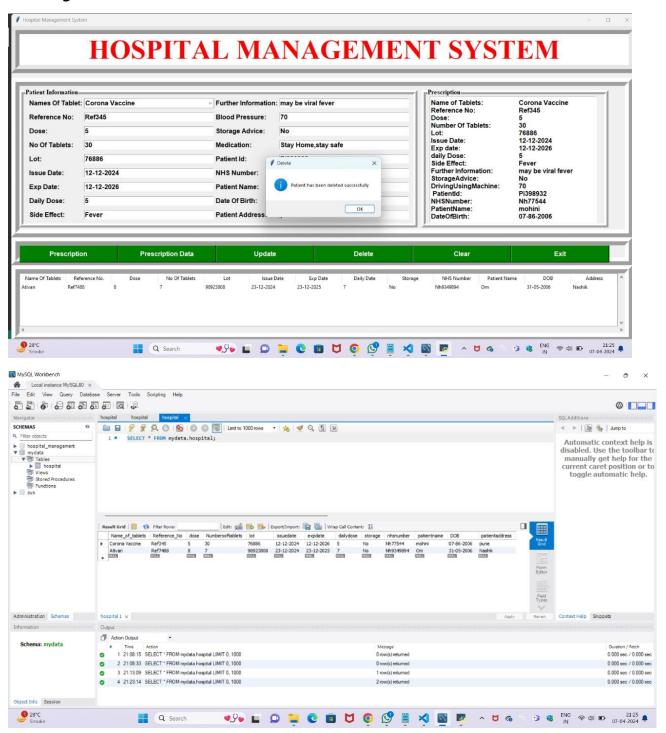
Adding Records:



Stored in Database:



Deleting Records:



> Conclusion:

So, we have created a mini project application for hospital management using GUI and Database Connectivity.