PHARMACY MANAGEMENT SYSTEM

A MINI PROJECT REPORT

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In partial fulfillment for the award of the degree of

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BONAFIDE CERTIFICATE

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ABSTRACT

The Pharmacy Management System is a web-based application designed to streamline medication inventory management and customer purchase tracking. Developed using Flask and SQLite, this system allows users to add, update, and delete medications, manage customer details, and handle purchases while maintaining accurate stock levels. The project demonstrates the application of CRUD operations, web frameworks, and database management, catering to small-scale pharmacies' needs..

TABLE OF CONTENTS

	Page No
1. INTRODUCTION	6
1.1 Scope Of The Work	
1.2 Problem Statement	
2. SYSTEM SPECIFICATION	8
2.1 Hardware and software specifications	
3. SOFTWARE DESCRIPTION	9
3.1 Features	
4. PROJECT DESCRIPTION	12
4.1 Module Description	
5. IMPLEMENTATION	13
5.1 System Workflow	
5.2 Source Code	
5.3 Screenshots	
6. CONCLUSION	33
7. REFERENCES	30
8. BIBLIOGRAPHY	31

INTRODUCTION

Pharmacies play a critical role in healthcare, requiring efficient systems to manage inventory and customer transactions. Traditional methods often involve manual record-keeping, which is prone to errors and inefficiencies. The Pharmacy Management System addresses these challenges by providing a user-friendly platform to manage medication details, track inventory, and record customer purchases digitally. The system is designed for ease of use and ensures data accuracy, making it an invaluable tool for pharmacy operations..

1.1 SCOPE OF THE WORK

The project focuses on:-

- 1. Managing medication details, including name, category, price, and stock quantity.
- 2. Recording customer transactions and tracking purchased medications.
- 3. Automating stock updates after purchases to avoid discrepancies.
- 4. Providing a responsive and interactive user interface for seamless operations.
- 5. Supporting scalability for future enhancements, such as integrating analytics or e-commerce features.

1.2 PROBLEM STATEMENT

Manual inventory and customer management in pharmacies often lead to:

- Errors in stock tracking.
- Inefficient customer service.
- Time-consuming record-keeping processes.
- Challenges in handling bulk data and generating reports. This project aims to mitigate these issues by developing a robust, digital solution for pharmacy management.

SYSTEM SPECIFICATION

2.1 HARDWARE AND SOFTWARE SPECIFICATIONS

The following hardware and software are required:-

HARDWARE REQUIREMENTS:-

• Processor: Intel Core i5 or equivalent

• RAM: 8GB or higher

• Storage: 500GB HDD/SSD

• Display: 1280x720 resolution minimum

SOFTWARE REQUIREMENTS:-

• Operating System: Windows 10, Linux, or macOS

• Programming Language: Python 3.10+

• Framework: Flask 2.x

• Database: SQLite 3

• Tools: VS Code, Browser (for testing), SQLite Browser (optional)

SOFTWARE DESCRIPTION:

3.1 FEATURES

Python

Python is a high-level, interpreted, and general-purpose programming language known for its simplicity and readability. It is widely used in web development, data science, artificial intelligence, and software development due to its extensive libraries and community support. For this project, Python serves as the foundation for building the backend logic of the Pharmacy Management System.

• Features of Python:

- Ease of Use: Simple syntax and structure make it easy to learn and implement.
- Cross-Platform: Compatible with major operating systems like Windows, Linux, and macOS.
- Rich Libraries: Offers powerful libraries like os, sqlite3, and
 math for diverse functionality.
- Dynamic Typing: Allows variable declarations without specifying data types explicitly.
- Scalability: Supports both small-scale scripts and large, complex applications.

• Role in the Project:

- Acts as the programming language for writing the application logic.
- Handles data operations such as fetching, inserting, updating, and deleting records in the SQLite database using the sqlite3 library.

• Manages Flask's routing and data handling functionalities.

Database:- Sqlite

SQLite is a lightweight, serverless, self-contained SQL database engine. It is a popular choice for applications requiring simple, reliable, and efficient data storage without the need for a separate database server.

• Features of SQLite:

- Serverless: Operates directly from a file without needing a dedicated server.
- Lightweight: Minimal setup and low overhead, making it ideal for small applications.
- Self-Contained: All database logic is encapsulated in a single library.
- **ACID Compliance**: Ensures reliable transactions with robust data integrity.
- **Platform Independent**: Can be used on various operating systems seamlessly.

• Role in the Project:

- Stores and manages data for medications and customer transactions in structured tables.
- Supports SQL operations such as:
 - Creating tables (e.g., medications, customers).
 - Performing CRUD (Create, Read, Update, Delete) operations.
- Acts as the core storage component for inventory and transaction data.

Flask

Flask is a lightweight, micro web framework written in Python. It provides developers with the tools necessary to build web applications, APIs, and more, while maintaining flexibility and scalability.

Features of Flask:

- **Micro Framework**: Minimalistic by design but highly extensible via plugins.
- **Routing System**: Supports URL mapping to associate web pages with functions.
- **Templating Engine**: Uses Jinja2 for dynamic HTML rendering.
- Integrated Development Server: Includes a debugger for testing and debugging during development.
- **RESTful Request Handling**: Built-in support for HTTP methods like GET, POST, PUT, and DELETE.

• Role in the Project:

- Routing: Maps URLs to specific Python functions to handle requests
 (e.g., /medications, /add_medication).
- Dynamic Rendering: Combines data from Python with HTML templates for an interactive user interface.
- Form Handling: Processes form submissions for actions like adding medications or customer purchases.
- Database Integration: Interfaces seamlessly with SQLite to fetch and display data on the web pages.
- Error Handling: Provides mechanisms to catch and report errors during user interactions or data processing.

PROJECT DESCRIPTION

The Pharmacy Management System provides an all-in-one solution for managing medications and customers in small-scale pharmacies. It leverages Flask's lightweight framework for the backend and SQLite for data persistence, ensuring simplicity and reliability. With features like stock adjustment, purchase tracking, and customer management, the system minimizes manual errors and improves operational efficiency.

4.1 MODULE DESCRIPTION

- 1. Home Module: Displays an overview of popular medicines and their prices.
- 2. **Medications Module**: Manages CRUD operations and lists all medicine details.
- 3. Add Medication Module: Allows adding new medicines to the inventory.
- 4. Update Quantity Module: Enables stock increment or decrement.
- 5. **Customer & Purchase Module**: Handles purchases, updates stock, and logs customer transactions.

IMPLEMENTATION

5.1 System Workflow:-

1.Backend:

- Developed using Flask for routing and data handling.
- SQLite is used as the database for storing medication and customer details.

2.Frontend:

- HTML and Jinja templates for dynamic rendering.
- Simple forms for input and interactive buttons for operations.

3.Database:

 Two tables: medications for inventory and customers for transaction history.

4.Source Code:

• See the provided script for full implementation.

5.2 Source Code:-

app.py-

```
from flask import Flask, render_template, request, redirect, url_for
import sqlite3

app = Flask(__name__)

def get_db_connection():
    conn = sqlite3.connect('pharmacy.db')
    conn.row_factory = sqlite3.Row
    return conn

@app.route('/')
def home():
    medicines = [
```

```
{"name": "Aspirin", "price": 50, "description": "Pain reliever"},
        {"name": "Paracetamol", "price": 30, "description": "Fever reducer"},
{"name": "Amoxicillin", "price": 120, "description": "Antibiotic"},
    1
    return render template('home.html', medicines=medicines)
@app.route('/medications')
def medications():
    conn = get db connection()
   medications = conn.execute("SELECT * FROM medications").fetchall()
    conn.close()
    return render template('medications.html', medications=medications)
@app.route('/add medication', methods=['GET', 'POST'])
def add medication():
    if request.method == 'POST':
        name = request.form['name']
        category = request.form['category']
        price = request.form['price']
        quantity = request.form['quantity']
        conn = get db connection()
        conn.execute("INSERT INTO medications (name, category, price, quantity) VALUES (?, ?, ?)",
                     (name, category, price, quantity))
        conn.commit()
        conn.close()
        return redirect(url for('medications'))
    return render template('add medication.html')
@app.route('/update quantity/<int:med id>', methods=['POST'])
def update quantity(med id):
    action = request.form['action']
    conn = get db connection()
   medication = conn.execute("SELECT quantity FROM medications WHERE id = ?", (med id,)).fetchone()
    if medication:
        current quantity = medication['quantity']
        if action == "increase":
           new_quantity = current_quantity + 1
        elif action == "decrease" and current quantity > 0:
           new quantity = current quantity - 1
        else:
            new quantity = current quantity
        conn.execute("UPDATE medications SET quantity = ? WHERE id = ?", (new quantity, med id))
        conn.commit()
    conn.close()
    return redirect(url for('medications'))
@app.route('/customers')
def customers():
    conn = get db connection()
    customers = conn.execute("SELECT * FROM customers").fetchall()
    conn.close()
    return render_template('customers.html', customers=customers)
@app.route('/delete_medication/<int:med_id>', methods=['POST'])
def delete_medication(med_id):
    conn = get db connection()
    conn.execute("DELETE FROM medications WHERE id = ?", (med id,))
    conn.commit()
    conn.close()
    return redirect(url for('medications'))
@app.route('/purchase medication/<int:medication id>', methods=['POST'])
```

```
def purchase medication(medication id):
    customer name = request.form['customer name']
   purchase quantity = int(request.form['quantity'])
    conn = get db connection()
   medication = conn.execute('SELECT name, price, quantity FROM medications WHERE id = ?',
(medication id,)).fetchone()
    if medication and medication['quantity'] >= purchase quantity:
       new quantity = medication['quantity'] - purchase quantity
       total price = medication['price'] * purchase quantity
       conn.execute('UPDATE medications SET quantity = ? WHERE id = ?', (new quantity, medication id))
       conn.execute('INSERT INTO customers (name, purchased items, quantity, total price) VALUES (?, ?, ?,
?)',
                     (customer name, medication['name'], purchase quantity, total price))
       conn.commit()
       conn.close()
       return redirect(url for('medications'))
    else:
       conn.close()
       return "Insufficient stock", 400
@app.route('/add customer', methods=['GET', 'POST'])
def add customer():
   if request.method == 'POST':
       name = request.form['name']
       email = request.form['email']
       phone = request.form['phone']
       purchased_items = request.form['purchased items']
       conn = get db connection()
       conn.execute("INSERT INTO customers (name, email, phone, purchased_items) VALUES (?, ?, ?, ?)",
                     (name, email, phone, purchased items))
       conn.commit()
       conn.close()
       return redirect(url_for('customers'))
   return render_template('add_customer.html')
if name == ' main ':
    app.run(debug=True)
create_db.py-
import sqlite3
conn = sqlite3.connect('pharmacy.db')
cursor = conn.cursor()
cursor.execute('''
   CREATE TABLE IF NOT EXISTS medications (
       id INTEGER PRIMARY KEY AUTOINCREMENT,
       name TEXT NOT NULL,
       category TEXT NOT NULL,
       price REAL NOT NULL,
       quantity INTEGER NOT NULL
''')
initial data = [
    ('Aspirin', 'Pain Relief', 50.0, 100),
    ('Paracetamol', 'Fever Relief', 30.0, 200),
```

```
('Ibuprofen', 'Anti-inflammatory', 60.0, 150)
]
cursor.executemany('INSERT INTO medications (name, category, price, quantity) VALUES (?, ?, ?,
?)', initial data)
conn.commit()
conn.close()
create table.py-
import sqlite3
# Connect to the database
conn = sqlite3.connect('pharmacy.db')
cursor = conn.cursor()
# Drop the existing 'customers' table if it exists
cursor.execute("DROP TABLE IF EXISTS customers;")
conn.commit()
# Create the new 'customers' table with the correct structure
cursor.execute('''
    CREATE TABLE customers (
       id INTEGER PRIMARY KEY AUTOINCREMENT,
       name TEXT NOT NULL,
       purchased items TEXT NOT NULL,
       quantity INTEGER NOT NULL,
       total_price REAL NOT NULL
conn.commit()
# Close the connection
conn.close()
print ("The 'customers' table has been dropped and recreated successfully.")
home.html-
{% extends "base.html" %}
{% block content %}
    <header class="header">
        <h1>Welcome to the Pharmacy Management System</h1>
        Your health, our priority!
    </header>
    <h2>Available Medicines</h2>
    <div class="medicine-list">
            \{\,\$\, \text{ for medicine in medicines }\,\$\,\}
                <strong>{{ medicine.name }}</strong><br>
                    Price: ₹{{ medicine.price }} <br>
                   Description: {{ medicine.description }}
                {% endfor %}
        </div>
    <a href="/customers" class="button">View Customers</a>
{% endblock %}
medications.html-
{% extends "base.html" %}
{% block title %}Medications - Pharmacy Management{% endblock %}
{% block content %}
```

<div class="tab-container">

```
<h2>Available Medications</h2>
    <div class="medication-cards-container">
        {% for medication in medications %}
       <div class="medication-card">
           <div class="medication-card-header">
               <h3>{{ medication[1] }}</h3>
               <strong>Category:</strong> {{ medication[2] }}
               <strong>Price:</strong> ₹{{ medication[3] }}
           <div class="medication-card-body">
               <strong>Quantity:</strong>
                  <button onclick="adjustQuantity({{ medication[0] }}, -1)">-</button>
                  <span id="quantity-{{ medication[0] }}">{{ medication[4] }}</span>
                  <button onclick="adjustQuantity({{ medication[0] }}, 1)">+</button>
               </div>
           <div class="purchase-form">
               <form action="{{ url for('purchase medication', medication id=medication[0]) }}"</pre>
method="post">
                  <label for="customer name">Customer Name:</label>
                  <input type="text" name="customer name" required>
                  <label for="quantity">Purchase Quantity:</label>
                  <input type="number" name="quantity" min="1" required>
                  <form action="{{ url for('delete medication', med id=medication[0]) }}"</pre>
method="post" style="display:inline;">
                          <button type="submit" class="delete-btn">Delete</button>
                      </form>
                  </div>
               </form>
           </div>
       </div>
       {% endfor %}
    </div>
</div>
<script>
   function adjustQuantity(medicationId, delta) {
       const quantityElement = document.getElementById(`quantity-${medicationId}`);
       let currentQuantity = parseInt(quantityElement.textContent);
       currentQuantity += delta;
       if (currentQuantity < 0) currentQuantity = 0;</pre>
       quantityElement.textContent = currentQuantity;
</script>
{% endblock %}
customer.html-
{% extends "base.html" %}
{% block title %}Customer Purchases{% endblock %}
{% block content %}
<h2>Customer Information</h2>
<thead>
           ID
           Name
           Purchased Items
           Quantity
           Total Price
       </thead>
    {% for customer in customers %}
           {{ customer.id }}
```

```
{{ customer.name }}
               {{ customer.purchased items }}
               {{ customer.quantity }}
               ₹{{ customer.total price }}
           {% endfor %}
    {% endblock %}
base.html-
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Pharmacy Management</title>
   <link rel="stylesheet" href="{{ url for('static', filename='css/styles.css') }}">
</head>
<body>
    -
<nav>
       <a href="/">Home</a>
       <a href="/medications">Medications</a>
        <a href="/add medication">Add Medication</a>
       <a href="/customers">Customers</a>
    </nav>
   <div class="container">
        {% block content %}{% endblock %}
    </div>
</body>
</h+m1>
add medication.html-
{% extends "base.html" %}
{% block title %}Add Medication{% endblock %}
{% block content %}
<h2>Add Medication</h2>
<form action="{{ url for('add medication') }}" method="POST" class="form-container">
    <label for="name">Medication Name:</label>
    <input type="text" id="name" name="name" required>
    <label for="category">Category:</label>
   <input type="text" id="category" name="category" required>
   <label for="price">Price (₹):</label>
   <input type="number" id="price" name="price" required>
   <label for="quantity">Quantity:</label>
   <input type="number" id="quantity" name="quantity" required>
    <button type="submit" class="submit-btn">Add Medication/button>
</form>
{% endblock %}
add_customers.html-
{% extends "base.html" %}
{% block content %}
    <h1>Add Customer</h1>
    <form method="POST" action="/add customer">
       <label for="name">Name:</label>
       <input type="text" name="name" required>
       <label for="email">Email:</label>
<input type="email" name="email" required>
        <label for="phone">Phone:</label>
       <input type="text" name="phone" required>
```

```
<label for="purchased items">Purchased Items:</label>
        <input type="text" name="purchased_items" required>
        <button type="submit">Add Customer</button>
    </form>
{% endblock %}
styles.css-
body {
 font-family: Arial, sans-serif;
 margin: 0;
 padding: 0;
nav {
 background-color: #007bff;
 padding: 10px;
 text-align: center;
nav a {
 color: white;
 margin: 0 15px;
  text-decoration: none;
  font-weight: bold;
.container {
 padding: 20px;
h2 {
  text-align: center;
.medication-list {
 display: flex;
  flex-wrap: wrap;
  justify-content: center;
  padding: 20px;
 gap: 20px;
.medication-card {
 border: 1px solid #ddd;
  border-radius: 8px;
 padding: 15px;
 width: 200px;
  text-align: center;
 box-shadow: 0px 4px 8px rgba(0, 0, 0, 0.1);
  transition: box-shadow 0.3s ease;
.medication-card:hover {
 box-shadow: 0px 8px 16px rgba(0, 0, 0, 0.2);
.delete-button {
 margin-top: 10px;
 padding: 8px 12px;
  font-size: 14px;
  color: #fff;
 background-color: #dc3545;
 border: none;
 border-radius: 5px;
 cursor: pointer;
 transition: background-color 0.3s ease;
.delete-button:hover {
 background-color: #c82333;
body {
 font-family: Arial, sans-serif;
  margin: 20px;
 background-color: #f4f4f4;
```

```
}
.header {
 background-color: #4CAF50;
 color: white;
 padding: 20px;
  text-align: center;
 border-radius: 8px;
h1 {
margin: 0;
h2 {
 color: #2c3e50;
.medicine-list {
 margin-top: 20px;
ul {
 list-style-type: none;
 padding: 0;
.medicine-item {
 margin: 10px 0;
 padding: 15px;
 border: 1px solid #ddd;
 border-radius: 5px;
 background-color: white;
  transition: box-shadow 0.3s;
.medicine-item:hover {
 box-shadow: 0 4px 8px rgba(0, 0, 0, 0.2);
.button {
 display: inline-block;
 margin-top: 20px;
 padding: 10px 20px;
 background-color: #008CBA;
 color: white;
  text-decoration: none;
 border-radius: 5px;
 transition: background-color 0.3s;
.button:hover {
 background-color: #005f73;
.tab-container {
 display: flex;
 flex-direction: column;
 align-items: center;
.medication-tabs {
 display: flex;
 flex-wrap: wrap;
 justify-content: center;
.medication-card {
 border: 1px solid #ddd;
  border-radius: 8px;
 padding: 16px;
margin: 10px;
 width: 250px;
 box-shadow: 2px 2px 6px rgba(0, 0, 0, 0.1);
  text-align: center;
```

```
.medication-card h3 {
 margin: 0:
 font-size: 1.2em;
.medication-card p {
 margin: 5px 0;
.medication-card button {
 background-color: #4CAF50;
  color: white;
 padding: 5px 10px;
 border: none;
 border-radius: 4px;
  cursor: pointer;
.medication-card button:hover {
 background-color: #45a049;
input[type="text"] {
 width: 50px;
  text-align: center;
  border: none;
 background: #f2f2f2;
/* General styling */
body {
 font-family: Arial, sans-serif;
background-color: #f4f4f4;
 color: #333;
 margin: 0;
 padding: 20px;
header {
 background-color: #4CAF50;
 padding: 10px 0;
 text-align: center;
 color: white;
h1 {
 margin: 0;
h2 {
 text-align: center;
 margin-bottom: 20px;
.customers-table {
 width: 80%;
 margin: 20px auto;
 border-collapse: collapse;
 background-color: #fff;
 box-shadow: 0 4px 6px rgba(0, 0, 0, 0.1);
.customers-table th,
.customers-table td {
 padding: 12px 15px;
  text-align: left;
 border: 1px solid #ddd;
}
.customers-table th {
 background-color: #4CAF50;
 color: white;
  font-size: 16px;
.customers-table td {
 background-color: #f9f9f9;
```

```
}
.customers-table tr:nth-child(even) td {
 background-color: #f1f1f1;
.customers-table tr:hover td {
 background-color: #ddd;
.customers-table td {
 font-size: 14px;
.customers-table td:last-child {
 text-align: right;
/* General styling for forms */
.form-container {
 width: 50%;
 margin: 30px auto;
 background-color: #fff;
 padding: 20px;
 box-shadow: 0 4px 8px rgba(0, 0, 0, 0.1);
 border-radius: 8px;
h2 {
  text-align: center;
 margin-bottom: 20px;
label {
 display: block;
  font-weight: bold;
 margin-bottom: 8px;
 font-size: 14px;
input[type="text"],
input[type="number"] {
 width: 100%;
 padding: 10px;
 margin-bottom: 20px;
 border: 1px solid #ccc;
 border-radius: 4px;
  font-size: 14px;
input[type="text"]:focus,
input[type="number"]:focus {
 border-color: #4CAF50;
 outline: none;
button.submit-btn {
 background-color: #4CAF50;
  color: white;
  font-size: 16px;
 padding: 12px 20px;
 border: none;
 border-radius: 4px;
 width: 100%;
  cursor: pointer;
  transition: background-color 0.3s ease;
button.submit-btn:hover {
background-color: #45a049;
button.submit-btn:active {
 background-color: #388e3c;
```

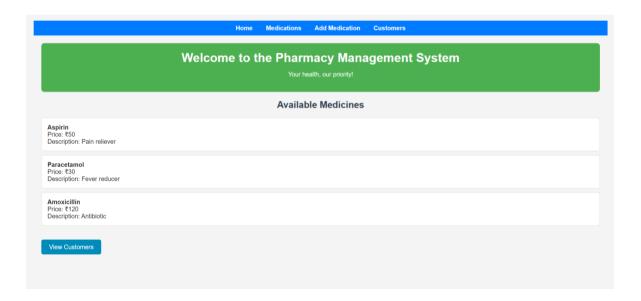
```
.form-container {
 max-width: 500px;
 margin: 0 auto;
@media (max-width: 768px) {
  .form-container {
    width: 90%;
  label {
     font-size: 12px;
  input[type="text"],
  input[type="number"],
 button.submit-btn {
      font-size: 14px;
.medications-container {
 display: grid;
  grid-template-columns: repeat(auto-fill, minmax(300px, 1fr)); /* Makes the cards responsive */
 gap: 20px;
 padding: 20px;
.medication-card {
 background-color: #fff;
 border-radius: 8px;
 box-shadow: 0 4px 8px rgba(0, 0, 0, 0.1);
 overflow: hidden;
 transition: transform 0.3s ease, box-shadow 0.3s ease;
.medication-card:hover {
 transform: translateY(-5px);
 box-shadow: 0 6px 12px rgba(0, 0, 0, 0.2);
.medication-card-header {
 background-color: #f2f2f2;
 padding: 15px;
 text-align: center;
.medication-card-header h3 {
 margin: 0;
 font-size: 18px;
 color: #333;
.medication-card-header p {
 margin: 5px 0;
  font-size: 14px;
 color: #555;
.medication-card-body {
 padding: 15px;
 font-size: 14px;
 color: #555;
 background-color: #fafafa;
.medication-card-body p {
 margin: 5px 0;
.medication-card-footer {
```

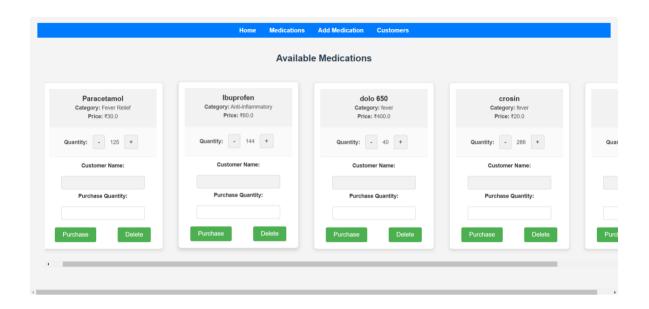
```
display: flex;
  justify-content: space-between;
  padding: 10px;
  background-color: #fff;
 border-top: 1px solid #eee;
.action-btn, .delete-btn {
 background-color: #4CAF50;
  color: white;
 font-size: 14px;
 padding: 8px 12px;
  border: none;
 border-radius: 4px;
 cursor: pointer;
  transition: background-color 0.3s ease;
.action-btn:hover, .delete-btn:hover {
 background-color: #45a049;
.delete-btn {
 background-color: #f44336;
}
.delete-btn:hover {
 background-color: #e53935;
@media (max-width: 768px) {
  .medications-container {
      grid-template-columns: 1fr;
  .medication-card-header h3 {
      font-size: 16px;
  .medication-card-body p, .medication-card-header p \{
      font-size: 12px;
  .action-btn, .delete-btn {
      font-size: 12px;
     padding: 6px 10px;
  }
.medication-cards-container {
 display: flex;
  flex-wrap: nowrap;
 overflow-x: auto;
 gap: 20px;
  padding: 20px;
 max-width: 100vw;
 box-sizing: border-box;
 margin: 0 auto;
.medication-card {
 background-color: #fff;
 border-radius: 8px;
 box-shadow: 0 4px 8px rgba(0, 0, 0, 0.1);
  width: 280px;
 height: 400px;
  transition: transform 0.3s ease, box-shadow 0.3s ease;
  flex-shrink: 0;
  display: flex;
  flex-direction: column;
  justify-content: space-between;
  overflow: hidden;
.medication-card:hover {
  transform: translateY(-5px);
```

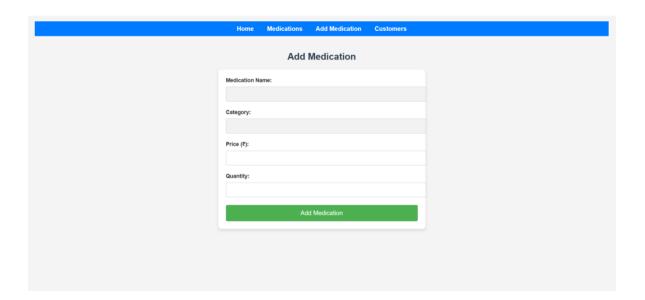
```
box-shadow: 0 6px 12px rgba(0, 0, 0, 0.2);
.medication-card-header {
 background-color: #f2f2f2;
 padding: 15px;
 text-align: center;
.medication-card-header h3 {
 margin: 0;
  font-size: 18px;
 color: #333;
.medication-card-header p {
 margin: 5px 0;
 font-size: 14px;
 color: #555;
.medication-card-body {
 padding: 15px;
  font-size: 14px;
  color: #555;
 background-color: #fafafa;
 flex-grow: 1;
.medication-card-body p {
 margin: 5px 0;
  text-align: center;
.purchase-form {
 padding: 15px;
  background-color: #fff;
 border-top: 1px solid #eee;
 text-align: center;
.purchase-form input[type="text"], .purchase-form input[type="number"] {
 width: 80%;
 padding: 8px;
margin: 10px 0;
 font-size: 14px;
  border-radius: 4px;
 border: 1px solid #ccc;
.buttons-container {
 display: flex;
  justify-content: space-between;
  gap: 10px;
 margin-top: 10px;
.purchase-form button {
 padding: 10px 20px;
  font-size: 16px;
 background-color: #4CAF50;
 color: white;
 border: none;
 border-radius: 4px;
 cursor: pointer;
  transition: background-color 0.3s ease;
}
.purchase-form button:hover {
 background-color: #45a049;
.delete-btn {
 background-color: #f44336;
  color: white;
  font-size: 14px;
```

```
padding: 8px 12px;
 border: none;
 border-radius: 4px;
 cursor: pointer;
 transition: background-color 0.3s ease;
.delete-btn:hover {
 background-color: #e53935;
.medication-card-body button {
 padding: 8px 12px;
 font-size: 16px;
 background-color: #f0f0f0;
 color: #333;
 border: 1px solid #ccc;
 border-radius: 4px;
 cursor: pointer;
 margin: 0 10px;
 transition: background-color 0.3s ease;
.medication-card-body button:hover {
 background-color: #ddd;
@media (max-width: 768px) {
  .medication-cards-container {
     gap: 10px;
  .medication-card {
      width: 200px;
     height: 350px;
}
```

5.3 Screen shots







Home Medications Add Medication Customers **Customer Information** Total Price ₹750.0 Paracetamol sanjay 25 2 6 ₹360.0 3 Monish crosin ₹80.0 4 10 Mohan crosin ₹200.0

CHAPTER 6

CONCLUSION

The Pharmacy Management System provides a streamlined solution for managing medication inventory and customer transactions. It addresses the inefficiencies of manual processes and ensures data accuracy. While designed for small-scale pharmacies, the system can be expanded with additional features like analytics, reporting, or integration with external APIs.

CHAPTER 7

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- 2. SQLite Documentation: https://www.sqlite.org/
- 3. Python Official Documentation: https://www.python.org/doc/
- 4. Bootstrap for UI (if used): https://getbootstrap.com/

CHAPTER – 8

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- 1. Pallets Projects. Flask: Web Development One Flask at a Time. 2024.
- 2. Hipp, D. Richard. The Design of SQLite. 2024.
- 3. Various authors. Python Crash Course. 2024.