**CONTACT MANAGER**

Init\_db.py:

import sqlite3

conn = sqlite3.connect("contacts.db")

cur = conn.cursor()

# Start fresh

cur.execute("DROP TABLE IF EXISTS contacts")

cur.execute('''

CREATE TABLE contacts (

id INTEGER PRIMARY KEY AUTOINCREMENT,

first\_name TEXT NOT NULL,

last\_name TEXT NOT NULL,

address TEXT NOT NULL,

email TEXT NOT NULL UNIQUE,

phone TEXT NOT NULL

)

''')

conn.commit()

conn.close()

print("✅ Database created successfully!")

index.html:

<!DOCTYPE html>

<html>

<head>

<title>Contact Manager</title>

<style>

body { font-family: Arial; margin: 20px; }

input { margin: 4px; padding: 6px; }

table { width: 100%; border-collapse: collapse; margin-top: 10px; }

th, td { border: 1px solid #ccc; padding: 8px; }

th { background: #eee; }

</style>

</head>

<body>

<h1>Contact Manager</h1>

<!-- FIXED FORM ACTION + METHOD -->

<form method="POST" action="/add">

<input name="first\_name" placeholder="First Name" required>

<input name="last\_name" placeholder="Last Name" required>

<input name="address" placeholder="Address" required>

<input type="email" name="email" placeholder="Email" required>

<input name="phone" placeholder="Phone" required>

<button type="submit">Add</button>

</form>

<table>

<tr>

<th>First</th>

<th>Last</th>

<th>Address</th>

<th>Email</th>

<th>Phone</th>

<th>Actions</th>

</tr>

{% for c in contacts %}

<tr>

<td>{{ c.first\_name }}</td>

<td>{{ c.last\_name }}</td>

<td>{{ c.address }}</td>

<td>{{ c.email }}</td>

<td>{{ c.phone }}</td>

<td>

<a href="/edit/{{ c.id }}">Edit</a> |

<a href="/delete/{{ c.id }}" onclick="return confirm('Delete this contact?')">Delete</a>

</td>

</tr>

{% endfor %}

</table>

</body>

</html>

edit.html:

<!DOCTYPE html>

<html>

<head>

<title>Edit Contact</title>

<style>

body { font-family: Arial; margin: 20px; }

input { margin: 4px; padding: 6px; }

</style>

</head>

<body>

<h1>Edit Contact</h1>

<form method="POST">

<input name="first\_name" value="{{ contact.first\_name }}" required>

<input name="last\_name" value="{{ contact.last\_name }}" required>

<input name="address" value="{{ contact.address }}" required>

<input type="email" name="email" value="{{ contact.email }}" required>

<input name="phone" value="{{ contact.phone }}" required>

<button type="submit">Save</button>

<a href="/">Cancel</a>

</form>

</body>

</html>

App.py:

from flask import Flask, render\_template, request, redirect

import sqlite3

app = Flask(\_\_name\_\_)

def get\_contacts():

conn = sqlite3.connect("contacts.db")

conn.row\_factory = sqlite3.Row

contacts = conn.execute("SELECT \* FROM contacts").fetchall()

conn.close()

return contacts

@app.route("/")

def index():

return render\_template("index.html", contacts=get\_contacts())

@app.route("/add", methods=["POST"])

def add():

data = (

request.form["first\_name"],

request.form["last\_name"],

request.form["address"],

request.form["email"],

request.form["phone"]

)

conn = sqlite3.connect("contacts.db")

conn.execute(

"INSERT INTO contacts (first\_name, last\_name, address, email, phone) VALUES (?, ?, ?, ?, ?)",

data

)

conn.commit()

conn.close()

return redirect("/")

@app.route("/edit/<int:id>", methods=["GET", "POST"])

def edit(id):

conn = sqlite3.connect("contacts.db")

conn.row\_factory = sqlite3.Row

if request.method == "POST":

data = (

request.form["first\_name"],

request.form["last\_name"],

request.form["address"],

request.form["email"],

request.form["phone"],

id

)

conn.execute(

"UPDATE contacts SET first\_name=?, last\_name=?, address=?, email=?, phone=? WHERE id=?",

data

)

conn.commit()

conn.close()

return redirect("/")

contact = conn.execute("SELECT \* FROM contacts WHERE id=?", (id,)).fetchone()

conn.close()

return render\_template("edit.html", contact=contact)

@app.route("/delete/<int:id>")

def delete(id):

conn = sqlite3.connect("contacts.db")

conn.execute("DELETE FROM contacts WHERE id=?", (id,))

conn.commit()

conn.close()

return redirect("/")

if \_\_name\_\_ == "\_\_main\_\_":

app.run(debug=True)

edit.html:

<!DOCTYPE html>

<html>

<head>

<title>Edit Contact</title>

<style>

body { font-family: Arial; margin: 20px; }

input { margin: 4px; padding: 6px; }

</style>

</head>

<body>

<h1>Edit Contact</h1>

<form method="POST">

<input name="first\_name" value="{{ contact.first\_name }}" required>

<input name="last\_name" value="{{ contact.last\_name }}" required>

<input name="address" value="{{ contact.address }}" required>

<input type="email" name="email" value="{{ contact.email }}" required>

<input name="phone" value="{{ contact.phone }}" required>

<button type="submit">Save</button>

<a href="/">Cancel</a>

</form>

</body>

</html>