STYLES.CSS

/\* Global Styles \*/

body {

    font-family: 'Arial', sans-serif;

    background-color: #f4f6f9;

    color: #333;

    margin: 0;

    padding: 0;

}

/\* Navigation Bar \*/

nav {

    background-color: #3b9b94;

    color: white;

    padding: 1em;

}

nav a {

    color: white;

    margin-right: 15px;

    text-decoration: none;

    font-weight: bold;

}

nav a:hover {

    color: #ffcccb;

    transition: color 0.3s ease;

}

/\* Buttons \*/

button {

    background-color: #ff5722;

    color: white;

    border: none;

    padding: 10px 20px;

    cursor: pointer;

    border-radius: 5px;

    font-weight: bold;

    transition: background-color 0.3s ease, transform 0.2s ease;

}

button:hover {

    background-color: #e64a19;

    transform: translateY(-2px);

}

/\* Hero Section \*/

.hero {

    background-image: url('https://www.example.com/hero-image.jpg');

    background-size: cover;

    padding: 80px 20px;

    color: white;

    text-align: center;

    background-attachment: fixed;

}

.hero h1 {

    font-size: 3em;

    margin-bottom: 20px;

}

.hero p {

    font-size: 1.5em;

}

/\* Recommendations \*/

.recommendations {

    display: flex;

    flex-wrap: wrap;

    gap: 20px;

    justify-content: center;

    padding: 20px;

}

.recommendation-card {

    background-color: white;

    border-radius: 8px;

    box-shadow: 0 4px 8px rgba(0, 0, 0, 0.1);

    width: 250px;

    overflow: hidden;

    text-align: center;

    transition: transform 0.3s ease, box-shadow 0.3s ease;

}

.recommendation-card img {

    width: 100%;

    height: 150px;

    object-fit: cover;

    border-top-left-radius: 8px;

    border-top-right-radius: 8px;

}

.recommendation-card h3 {

    color: #3b9b94;

    margin-top: 15px;

    font-size: 1.5em;

}

.recommendation-card p {

    color: #555;

    padding: 0 15px;

    font-size: 0.9em;

}

.recommendation-card:hover {

    transform: scale(1.05);

    box-shadow: 0 8px 16px rgba(0, 0, 0, 0.2);

}

/\* Footer \*/

footer {

    background-color: #3b9b94;

    color: white;

    text-align: center;

    padding: 1em 0;

    font-size: 0.9em;

}

/\* Media Queries for Responsiveness \*/

@media (max-width: 768px) {

    .hero h1 {

        font-size: 2.5em;

    }

    .hero p {

        font-size: 1.2em;

    }

    .recommendation-card {

        width: 100%;

    }

}

.weather-container {

    background-color: #e0f7fa;

    padding: 20px;

    border-radius: 8px;

    box-shadow: 0 4px 8px rgba(0, 0, 0, 0.1);

    max-width: 400px;

    margin: auto;

    text-align: center;

}

.weather-container h2 {

    color: #3b9b94;

}

.weather-container p {

    font-size: 1.1em;

    color: #333;

}

.weather-display {

    background-color: #e0f7fa;

    padding: 15px;

    border-radius: 8px;

    margin-top: 20px;

}

.weather-display h4 {

    color: #3b9b94;

}

INDEX.HTML

{% extends "layout.html" %}

{% block content %}

<div class="row">

    <div class="col-12 col-md-6">

        <h2>Plan Your Next Holiday</h2>

        <form method="POST">

            <div class="mb-3">

                <label for="location\_type" class="form-label">Location Type</label>

                <select class="form-select" id="location\_type" name="location\_type" required>

                    <option value="Beach">Beach</option>

                    <option value="Mountain">Mountain</option>

                    <option value="City">City</option>

                </select>

            </div>

            <div class="mb-3">

                <label for="budget" class="form-label">Budget</label>

                <select class="form-select" id="budget" name="budget" required>

                    <option value="Low">Low</option>

                    <option value="Medium">Medium</option>

                    <option value="High">High</option>

                </select>

            </div>

            <div class="mb-3">

                <label for="season" class="form-label">Season</label>

                <select class="form-select" id="season" name="season" required>

                    <option value="Summer">Summer</option>

                    <option value="Winter">Winter</option>

                    <option value="Spring">Spring</option>

                </select>

            </div>

            <div class="form-group">

                <label for="num\_days">Number of Days</label>

                <input type="number" class="form-control" id="num\_days" name="num\_days" min="1" required>

            </div><br>

            <div class="mb-3">

                <label for="activities" class="form-label">Activities</label><br>

                <input type="checkbox" id="Swimming" name="activities" value="Swimming"> Swimming<br>

                <input type="checkbox" id="Hiking" name="activities" value="Hiking"> Hiking<br>

                <input type="checkbox" id="Skiing" name="activities" value="Skiing"> Skiing<br>

                <input type="checkbox" id="Shopping" name="activities" value="Shopping"> Shopping<br>

                <input type="checkbox" id="Sightseeing" name="activities" value="Sightseeing"> Sightseeing<br>

            </div><br>

            <button type="submit" class="btn btn-primary">Submit</button>

        </form>

    </div>

    <div class="col-12 col-md-6">

        <h3>Weather Info</h3>

        <form action="/weather" method="get">

            <input type="text" name="city" class="form-control" placeholder="Enter city" required>

            <button type="submit" class="btn btn-info mt-2">Get Weather</button>

        </form>

        {% if weather %}

        <div class="mt-3 weather-display">

            <h4>Weather in {{ weather.name }}</h4>

            <p><strong>Temperature:</strong> {{ weather.main.temp }}°C</p>

            <p><strong>Description:</strong> {{ weather.weather[0].description | capitalize }}</p>

        </div>

        {% endif %}

    </div>

</div>

{% endblock %}

LAYOUT.HTML

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Holiday Planner</title>

    <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha1/dist/css/bootstrap.min.css" rel="stylesheet">

    <link href="{{ url\_for('static', filename='css/styles.css') }}" rel="stylesheet">

</head>

<body>

    <div class="container">

        <nav class="navbar navbar-expand-lg navbar-light bg-light">

            <a class="navbar-brand" href="/">Holiday Planner</a>

            <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-target="#navbarNav" aria-controls="navbarNav" aria-expanded="false" aria-label="Toggle navigation">

                <span class="navbar-toggler-icon"></span>

            </button>

            <div class="collapse navbar-collapse" id="navbarNav">

                <ul class="navbar-nav ml-auto">

                    {% if current\_user.is\_authenticated %}

                        <li class="nav-item"><a class="nav-link" href="/logout">Logout</a></li>

                    {% else %}

                        <li class="nav-item"><a class="nav-link" href="/login">Login</a></li>

                    {% endif %}

                </ul>

            </div>

        </nav>

        {% block content %}{% endblock %}

    </div>

    <script src="https://cdn.jsdelivr.net/npm/@popperjs/core@2.11.6/dist/umd/popper.min.js"></script>

    <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha1/dist/js/bootstrap.min.js"></script>

</body>

</html>

LOGIN.HTML

{% extends "layout.html" %}

{% block content %}

<div class="d-flex justify-content-center align-items-center" style="height: 80vh;">

    <div class="card p-4" style="max-width: 400px; width: 100%;">

        <h2 class="text-center mb-4">Login</h2>

        {% if error %}

            <div class="alert alert-danger" role="alert">

                {{ error }}

            </div>

        {% endif %}

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

            <div class="mb-3">

                <label for="username" class="form-label">Username</label>

                <input type="text" class="form-control" id="username" name="username" required>

            </div>

            <div class="mb-3">

                <label for="password" class="form-label">Password</label>

                <input type="password" class="form-control" id="password" name="password" required>

            </div>

            <button type="submit" class="btn btn-primary w-100">Login</button>

        </form>

    </div>

</div>

{% endblock %}

RESULTS.HTML

{% extends "layout.html" %}

{% block content %}

<h1 class="text-center mb-4">Recommendations</h1>

<!-- Display selected dates and number of days -->

{% if preferences %}

    <p><strong>Number of Days:</strong> {{ preferences.num\_days }}</p>

{% endif %}

{% if recommendations %}

    <div class="row">

        {% for destination in recommendations %}

            <div class="col-md-4">

                <div class="card mb-4">

                    <div class="card-body">

                        <h5 class="card-title">{{ destination }}</h5>

                    </div>

                </div>

            </div>

        {% endfor %}

    </div>

{% else %}

    <p>No matching destinations found.</p>

{% endif %}

<div class="text-center mt-4">

    <a href="{{ url\_for('home') }}" class="btn btn-primary">Back to Home</a>

</div>

{% endblock %}

WEATHER.HTML

{% extends "layout.html" %}

{% block content %}

<div class="weather-container">

    {% if weather %}

        <h2>Weather in {{ weather.name }}</h2>

        <p><strong>Temperature:</strong> {{ weather.main.temp }}°C</p>

        <p><strong>Description:</strong> {{ weather.weather[0].description | capitalize }}</p>

        <p><strong>Humidity:</strong> {{ weather.main.humidity }}%</p>

        <p><strong>Wind Speed:</strong> {{ weather.wind.speed }} m/s</p>

    {% else %}

        <p>Weather data is currently unavailable. Please try again later.</p>

    {% endif %}

</div>

{% endblock %}

APP.PY

from datetime import datetime

import json

import requests

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

from flask\_login import LoginManager, UserMixin, login\_user, login\_required, logout\_user, current\_user

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

app.secret\_key = 'dlMwYFRPmi4Rrdfh5rVUuUdPv2e5Bckw'

login\_manager = LoginManager()

login\_manager.init\_app(app)

# User model

class User(UserMixin):

    def \_\_init\_\_(self, id):

        self.id = id

# Hardcoded user credentials

users = {'admin': {'password': 'password123'}}

# User loader

@login\_manager.user\_loader

def load\_user(user\_id):

    return User(user\_id)

# Login route

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

def login():

    if request.method == "POST":

        username = request.form['username']

        password = request.form['password']

        if username in users and users[username]['password'] == password:

            user = User(username)

            login\_user(user)

            return redirect(url\_for('home'))

        else:

            return render\_template("login.html", error="Invalid credentials")

    return render\_template("login.html")

# Home route (only accessible if logged in)

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

@login\_required

def home():

    if request.method == "POST":

        preferences = {

            "location\_type": request.form.get("location\_type").lower(),

            "budget": request.form.get("budget").lower(),

            "season": request.form.get("season").lower(),

            "activities": [activity.lower() for activity in request.form.getlist("activities")],

            "num\_days": int(request.form.get("num\_days"))

        }

        # Load test data from JSON

        with open('destination.json') as f:

            destinations = json.load(f)["destinations"]

        # Filter destinations based on user preferences and number of days

        recommendations = [

            d for d in destinations if

            d["type"].lower() == preferences["location\_type"] and

            d["budget"].lower() == preferences["budget"] and

            d["season"].lower() == preferences["season"] and

            any(activity.lower() in [a.lower() for a in d["activities"]] for activity in preferences["activities"]) and

            d["num\_days"] >= preferences["num\_days"]  # Check if destination's days are >= user's days

        ]

        # Only return the city names and the preferences

        if recommendations:

            city\_names = [d["name"] for d in recommendations]

            return render\_template("results.html", recommendations=city\_names, preferences=preferences)

        else:

            # If no matching destinations, inform the user

            return render\_template("results.html", recommendations=[], preferences=preferences, error="No destinations match your criteria for the number of days.")

    return render\_template("index.html")

# Logout route

@app.route("/logout")

@login\_required

def logout():

    logout\_user()

    return redirect(url\_for('login'))

# Weather API route with error handling

def get\_weather(city):

    api\_key = "0152a10cc622469182929c0f5d489c6d"

    url = f"http://api.openweathermap.org/data/2.5/weather?q={city}&appid={api\_key}&units=metric"

    try:

        response = requests.get(url)

        response.raise\_for\_status()  # Raise an exception for HTTP errors

        return response.json()

    except requests.RequestException:

        return {"error": "Could not retrieve weather data"}

@app.route("/weather")

@login\_required

def weather():

    city = request.args.get('city', 'London')

    weather\_data = get\_weather(city)

    return render\_template('weather.html', weather=weather\_data)

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

    app.run(debug=True)

DESTINATION.JSON

{

  "destinations": [

    { "name": "Maldives", "type": "Beach", "budget": "High", "season": "Summer", "activities": ["Swimming", "Hiking", "Snorkeling"], "num\_days": 7 },

    { "name": "Switzerland", "type": "Mountain", "budget": "Medium", "season": "Winter", "activities": ["Skiing", "Shopping"], "num\_days": 10 },

    { "name": "Paris", "type": "City", "budget": "Low", "season": "Spring", "activities": ["Sightseeing", "Shopping"], "num\_days": 5 },

    { "name": "New York", "type": "City", "budget": "High", "season": "Autumn", "activities": ["Sightseeing", "Museums"], "num\_days": 4 },

    { "name": "Tokyo", "type": "City", "budget": "Medium", "season": "Spring", "activities": ["Shopping", "Sightseeing", "Food tours"], "num\_days": 6 },

    { "name": "Hawaii", "type": "Beach", "budget": "High", "season": "Summer", "activities": ["Swimming", "Snorkeling", "Surfing"], "num\_days": 7 },

    { "name": "Berlin", "type": "City", "budget": "Low", "season": "Autumn", "activities": ["Museums", "Shopping"], "num\_days": 5 },

    { "name": "Dubai", "type": "City", "budget": "High", "season": "Winter", "activities": ["Shopping", "Sightseeing", "Beaches"], "num\_days": 5 },

    { "name": "Iceland", "type": "Mountain", "budget": "Medium", "season": "Winter", "activities": ["Hiking", "Sightseeing"], "num\_days": 8 },

    { "name": "Barcelona", "type": "City", "budget": "Medium", "season": "Spring", "activities": ["Sightseeing", "Beaches"], "num\_days": 6 },

    { "name": "Cairo", "type": "City", "budget": "Low", "season": "Winter", "activities": ["Sightseeing", "Pyramids"], "num\_days": 4 },

    { "name": "Rome", "type": "City", "budget": "Medium", "season": "Spring", "activities": ["Sightseeing", "Shopping"], "num\_days": 5 },

    { "name": "Machu Picchu", "type": "Mountain", "budget": "Medium", "season": "Spring", "activities": ["Hiking", "Sightseeing"], "num\_days": 9 },

    { "name": "Tahiti", "type": "Beach", "budget": "High", "season": "Summer", "activities": ["Snorkeling", "Swimming"], "num\_days": 7 },

    { "name": "Sydney", "type": "City", "budget": "Medium", "season": "Autumn", "activities": ["Sightseeing", "Beaches"], "num\_days": 6 },

    { "name": "London", "type": "City", "budget": "Low", "season": "Autumn", "activities": ["Sightseeing", "Museums"], "num\_days": 4 },

    { "name": "Bali", "type": "Beach", "budget": "Medium", "season": "Spring", "activities": ["Swimming", "Snorkeling", "Hiking"], "num\_days": 6 },

    { "name": "Cape Town", "type": "City", "budget": "Medium", "season": "Winter", "activities": ["Sightseeing", "Beaches"], "num\_days": 5 },

    { "name": "Kyoto", "type": "City", "budget": "Medium", "season": "Spring", "activities": ["Sightseeing", "Temples"], "num\_days": 5 },

    { "name": "Madrid", "type": "City", "budget": "Low", "season": "Spring", "activities": ["Sightseeing", "Museums"], "num\_days": 5 },

    { "name": "Los Angeles", "type": "City", "budget": "High", "season": "Summer", "activities": ["Sightseeing", "Shopping", "Beaches"], "num\_days": 6 },

    { "name": "Amsterdam", "type": "City", "budget": "Medium", "season": "Spring", "activities": ["Sightseeing", "Museums"], "num\_days": 6 },

    { "name": "Bangkok", "type": "City", "budget": "Low", "season": "Winter", "activities": ["Sightseeing", "Shopping", "Food tours"], "num\_days": 5 },

    { "name": "Vienna", "type": "City", "budget": "Medium", "season": "Winter", "activities": ["Sightseeing", "Museums"], "num\_days": 6 },

    { "name": "Athens", "type": "City", "budget": "Low", "season": "Spring", "activities": ["Sightseeing", "History tours"], "num\_days": 4 },

    { "name": "Prague", "type": "City", "budget": "Low", "season": "Autumn", "activities": ["Sightseeing", "Food tours"], "num\_days": 4 },

    { "name": "Zermatt", "type": "Mountain", "budget": "High", "season": "Winter", "activities": ["Skiing", "Sightseeing"], "num\_days": 8 },

    { "name": "Singapore", "type": "City", "budget": "High", "season": "Summer", "activities": ["Sightseeing", "Shopping"], "num\_days": 5 },

    { "name": "Paris", "type": "City", "budget": "Low", "season": "Winter", "activities": ["Sightseeing", "Museums"], "num\_days": 5 },

    { "name": "Queenstown", "type": "Mountain", "budget": "Medium", "season": "Winter", "activities": ["Skiing", "Sightseeing"], "num\_days": 8 },

    { "name": "Madrid", "type": "City", "budget": "Medium", "season": "Spring", "activities": ["Sightseeing", "Museums"], "num\_days": 5 },

    { "name": "Morocco", "type": "Desert", "budget": "Low", "season": "Autumn", "activities": ["Sightseeing", "Camel riding"], "num\_days": 4 },

    { "name": "Buenos Aires", "type": "City", "budget": "Medium", "season": "Winter", "activities": ["Sightseeing", "Food tours"], "num\_days": 6 },

    { "name": "Miami", "type": "Beach", "budget": "High", "season": "Summer", "activities": ["Beaches", "Sightseeing"], "num\_days": 6 },

    { "name": "Venice", "type": "City", "budget": "Medium", "season": "Spring", "activities": ["Sightseeing", "Shopping"], "num\_days": 5 },

    { "name": "Amsterdam", "type": "City", "budget": "Medium", "season": "Autumn", "activities": ["Sightseeing", "Museums"], "num\_days": 5 },

    { "name": "Athens", "type": "City", "budget": "Low", "season": "Spring", "activities": ["Sightseeing", "History tours"], "num\_days": 4 },

    { "name": "Helsinki", "type": "City", "budget": "Low", "season": "Winter", "activities": ["Sightseeing", "Shopping"], "num\_days": 5 },

    { "name": "Seoul", "type": "City", "budget": "Medium", "season": "Spring", "activities": ["Sightseeing", "Shopping"], "num\_days": 6 },

    { "name": "Oslo", "type": "City", "budget": "Medium", "season": "Winter", "activities": ["Sightseeing", "Shopping"], "num\_days": 5 },

    { "name": "Jakarta", "type": "City", "budget": "Low", "season": "Spring", "activities": ["Sightseeing", "Shopping"], "num\_days": 4 },

    { "name": "Bangkok", "type": "City", "budget": "Low", "season": "Summer", "activities": ["Sightseeing", "Shopping"], "num\_days": 4 },

    { "name": "Lisbon", "type": "City", "budget": "Medium", "season": "Autumn", "activities": ["Sightseeing", "Museums"], "num\_days": 5 },

    { "name": "Dubai", "type": "City", "budget": "High", "season": "Winter", "activities": ["Sightseeing", "Shopping"], "num\_days": 5 },

    { "name": "Fiji", "type": "Beach", "budget": "High", "season": "Summer", "activities": ["Swimming", "Snorkeling"], "num\_days": 7 },

    { "name": "Tahiti", "type": "Beach", "budget": "High", "season": "Summer", "activities": ["Swimming", "Snorkeling"], "num\_days": 7 },

    { "name": "Maldives", "type": "Beach", "budget": "Low", "season": "Winter", "activities": ["Snorkeling", "Relaxing"], "num\_days": 5 },

    { "name": "Switzerland", "type": "Mountain", "budget": "High", "season": "Spring", "activities": ["Skiing", "Snowboarding"], "num\_days": 12 },

    { "name": "Paris", "type": "City", "budget": "Medium", "season": "Autumn", "activities": ["Sightseeing", "Gastronomy"], "num\_days": 6 },

    { "name": "New York", "type": "City", "budget": "Medium", "season": "Winter", "activities": ["Broadway", "Sightseeing"], "num\_days": 7 },

    { "name": "Tokyo", "type": "City", "budget": "High", "season": "Winter", "activities": ["Food tours", "Sightseeing"], "num\_days": 7 },

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