# Full Stack Project Development

App.py:- python code.

from flask import Flask, render\_template, request

import requests

from urllib.parse import unquote

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

# Replace with your Spoonacular API key

API\_KEY = '71348f944bf04ed8b025ab56af96db3a'

@app.route('/home', methods=['GET'])

def home():

    return render\_template('index.html', recipes=[], search\_query='')

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

def index():

    if request.method == 'POST':

        query = request.form.get('search\_query', '')

        recipes = search\_recipes(query)

        return render\_template('index.html', recipes=recipes, search\_query=query)

    search\_query = request.args.get('search\_query', '')

    decoded\_search\_query = unquote(search\_query)

    recipes = search\_recipes(decoded\_search\_query)

    return render\_template('index.html', recipes=recipes, search\_query=decoded\_search\_query)

def search\_recipes(query):

    url = f'https://api.spoonacular.com/recipes/complexSearch'

    params = {

        'apiKey': API\_KEY,

        'query': query,

        'number': 10,

        'instructionsRequired': True,

        'addRecipeInformation': True,

        'fillIngredients': True,

    }

    response = requests.get(url, params=params)

    if response.status\_code == 200:

        data = response.json()

        return data['results']

    return []

@app.route('/recipe/<int:recipe\_id>')

def view\_recipe(recipe\_id):

    search\_query = request.args.get('search\_query', '')

    url = f'https://api.spoonacular.com/recipes/{recipe\_id}/information'

    params = {

        'apiKey': API\_KEY,

    }

    response = requests.get(url, params=params)

    if response.status\_code == 200:

        recipe = response.json()

        return render\_template('view\_recipe.html', recipe=recipe, search\_query=search\_query)

    return "Recipe not found", 404

if \_\_name\_\_ == '\_\_main\_\_':

    app.run(debug=True)

Index.html

<!DOCTYPE html>

<html lang="en">

<head>

    <title>Recipe App</title>

    <style>

        body {

            text-align: center;

            margin: 40px;

            font-family: Arial, Helvetica, sans-serif;

        }

        h1 {

            margin-bottom: 20px;

        }

        form {

            margin-bottom: 20px;

        }

        ul {

            list-style: none;

            padding: 0;

        }

        li {

            display: inline-block;

            text-align: center;

            margin: 10px;

            width: 200px;

        }

        .recipe-title {

            font-size: 16px;

            line-height: 1.2;

            max-height: 3.6em;

            overflow: hidden;

            text-overflow: ellipsis;

            white-space: normal;

        }

        img {

            display: block;

            margin: 0 auto;

            max-width: 200px;

        }

        a {

            display: inline-block;

            margin-top: 10px;

            color: blue;

            text-decoration: underline;

        }

        .home-button {

            display: inline-block;

            margin-top: 10px;

            margin-left: 10px;

            color: blue;

            text-decoration: underline;

        }

        .recipe-details {

            max-width: 600px;

            margin: 0 auto;

            border: 2px solid #ccc;

            padding: 20px;

        }

        .section-title {

            text-align: left;

            margin-bottom: 10px;

        }

        .ingredient-list, .instrction-list {

            text-align: left;

        }

    </style>

</head>

<body>

    <h1>Recipe App</h1>

    <form method="POST" action="/">

        <input type="text" name="search\_query" placeholder="Search for recipes">

        <input type="submit" value="Search">

        <a href="/home" class="home-button">Home</a>

    </form>

    <!-- Check of recipes are available-->

    {% if recipes%}

    <h2>Results for "{{ search\_query }}"</h2>

    <ul>

        {% for recipe in recipes %}

        <li>

            <h3 class="recipe-title">{{ recipe.title }}</h3>

            {% if recipe.image %}

            <img src="{{ recipe.image }}" alt="{{ recipe.title }}">

            {% endif %}

            <a href="{{ url\_for('view\_recipe', recipe\_id=recipe.id, search\_query=search\_query) }}">View</a>

        </li>

        {% endfor %}

    </ul>

    <!-- If no recipes are found -->

    {% else %}

    <p>No recipes found.</p>

    {% endif %}

</body>

</html>

View\_recipe.html

<!DOCTYPE html>

<html lang="en">

<head>

    <title>{{ recipe.title }}</title>

    <style>

        body {

            text-align: center;

            margin: 40px;

            font-family: Arial, Helvetica, sans-serif;

        }

        h1, h2 {

            margin-bottom: 20px;

        }

        ul, ol {

            text-align: left;

            list-style-position: inside;

            padding-left: 20px;

        }

        img {

            display: block;

            margin: 0 auto;

            max-width: 300px;

            margin-bottom: 20px;

        }

        a {

            display: inline-block;

            margin-top: 10px;

            color: blue;

            text-decoration: underline;

        }

        .recipe-details {

            max-width: 700px;

            margin: 0 auto;

            border: 2px solid #ccc;

            padding: 20px;

        }

        .section-title {

            text-align: left;

            margin-bottom: 10px;

        }

        .ingredient-list, .instruction-list {

            text-align: left;

        }

    </style>

</head>

<body>

    <div class="recipe-details">

        <h1>{{ recipe.title }}</h1>

        <!-- Display the recipe image if available -->

        {% if recipe.image %}

        <img src="{{ recipe.image }}" alt="{{ recipe.title }}">

        {% endif %}

        <!-- Ingredients section -->

        <h2 class="section-title">Ingredients</h2>

        <!-- Create an unordered list for displaying the ingredients -->

        <ul class="ingredient-list">

            <!-- Loop through each ingredient in the recipe's extendedIngredients -->

            {% for ingredient in recipe.extendedIngredients %}

            <li>{{ ingredient.original }}</li>

            {% endfor %}

        </ul>

        <!-- Instructions Section -->

        <h2 class="section-title">Instructions</h2>

        <ol class="instruction-list">

            {% for step in recipe.analyzedInstructions[0].steps %}

            <li>{{ step.step }}</li>

            {% endfor %}

        </ol>

        <a href="/?search\_query={{ search\_query }}">Back to search results</a>

    </div>

</body>

</html>

OUTPUT







