First, create a folder for **search\_web\_app** project and navigate into it. Then, create the following files:

1. search\_web\_app.py (for the Flask backend)
2. index.html (for the HTML structure)
3. styles.css (for the CSS styling)

Here's the content for each file:

**1. search\_web\_app.py:**

from flask import Flask, render\_template, request

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

@app.route('/')

def index():

return render\_template('index.html')

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

def search():

uploaded\_file = request.files['file']

query = request.form['query']

if uploaded\_file.filename != '':

file\_contents = uploaded\_file.read().decode('utf-8')

search\_results = search\_data(file\_contents, query)

return render\_template('index.html', search\_results=search\_results)

else:

return render\_template('index.html', error='Please select a file.')

def search\_data(file\_contents, query):

results = []

lines = file\_contents.split('\n')

for i, line in enumerate(lines, start=1):

if query.lower() in line.lower():

results.append({'line\_number': i, 'content': line.strip().replace('\t', ' ')})

return results

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

app.run(debug=True)

**2. index.html:**

Create a folder called **templates,** in side it create a index.html

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>Search Web Application</title>

<link rel="stylesheet" href="static/styles.css">

</head>

<body>

<div class="container">

<h1>Search Web Application</h1>

<form action="/search" method="post" enctype="multipart/form-data">

<input type="file" name="file" accept="">

<input type="text" name="query" placeholder="Enter search query">

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

</form>

<div id="searchResults">

{% if search\_results %}

<h2>Search Results:</h2>

<ul>

{% for result in search\_results %}

<li>{{ result }}</li>

{% endfor %}

</ul>

{% endif %}

</div>

{% if error %}

<p class="error">{{ error }}</p>

{% endif %}

</div>

</body>

</html>

**3. styles.css:**

Create a folder in root directory called **static,** in side it create a styles.css

.container {

max-width: 600px;

margin: 0 auto;

padding: 20px;

}

h1 {

text-align: center;

}

form {

margin-bottom: 20px;

margin: 30px;

padding-bottom: 20px;

}

input[type="file"], input[type="text"] {

margin-right: 10px;

padding-bottom: 20px;

}

button {

padding: 10px 20px;

background-color: #007bff;

color: #fff;

border: none;

cursor: pointer;

text-align: center;

margin-top: 5px;

}

button:hover {

background-color: #0056b3;

}

#searchResults {

margin-top: 20px;

}

Make sure we have Flask installed (pip install Flask). Then we can run the Flask app by executing python app.py in our terminal. Use this url http://127.0.0.1:5000/ in web browser to see the simple interest calculator in action.

[https://github.com/anjalikishore/search\_web\_app](https://github.com/anjalikishore/search_web_app%20)