

Creating The News Web Application

index.html :

```
<!doctype html>
<html lang="en">
  <head>
    <!-- Required meta tags -->
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <link rel="shortcut icon" href="{{ url_for('static', filename='favicon.ico') }}">
    <!-- Custom Styles -->
    <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.1.3/css/bootstrap.min.css"
integrity="sha384-MCw98/SFnGE8fJT3GXwEOngsV7Zt27NXFoaoApmYm81iuXoPkFOJwJ8ERdknLPMO" crossorigin="anonymous">
    <link rel="preconnect" href="https://fonts.gstatic.com">
    <link href="https://fonts.googleapis.com/css2?family=Source+Code+Pro:wght@500&display=swap"
rel="stylesheet">
    <title>NewsToday Homepage</title>
  </head>
  <nav id="navbar" class="navbar navbar-expand-md">
    <a class="navbar-brand" href="/"><h2 style="font-family:'Source Code Pro', monospace;">NewsToday</h2></a>
    <button class="navbar-toggler navbar-light" type="button" data-toggle="collapse" data-target="#main-
navigation">
      <span class="navbar-toggler-icon"></span>
    </button>
    <div class="collapse navbar-collapse" id="main-navigation">
      <ul class="navbar-nav mr-auto">
        <img class="navbar-nav">
        <li class="nav-item">
          <a class="nav-link" href="/">Home</a>
        </li>
        <li class="nav-item">
          <a class="nav-link" href="/sources">Sources</a>
        </li>
        <li class="nav-item">
          <a class="nav-link" href="/about">>About me</a>
        </li>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&~
        <form action="{{ url_for('search') }}", method="post">
          <input type="text" name="searchBar" placeholder="Search news here">
          <button>Search</button>
        </form>
      </ul>
    </div>
  </nav>

  <div class="container">
    <h5>Category</h5>
    <ul class="nav nav-tabs" role="tablist">
      <li role="presentation"><a href="#business" role="tab" data-
toggle="tab">Business&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&~
      <li role="presentation"><a href="#entertainment" role="tab" data-
toggle="tab">Entertainment&nbsp;&nbsp;&nbsp;&nbsp;&~
```

```

<li role="presentation" class="active"><a href="#general" role="tab" data-
toggle="tab">General&nbsp;&nbsp;&nbsp;</a></li>
<li role="presentation"><a href="#health" role="tab" data-toggle="tab">Health&nbsp;&nbsp;&nbsp;</a></li>
<li role="presentation"><a href="#science" role="tab" data-
toggle="tab">Science&nbsp;&nbsp;&nbsp;</a></li>
<li role="presentation"><a href="#sports" role="tab" data-toggle="tab">Sports&nbsp;&nbsp;&nbsp;</a></li>
<li role="presentation"><a href="#technology" role="tab" data-
toggle="tab">Technology&nbsp;&nbsp;&nbsp;</a></li>
</ul>
</li>
<br><br>
<!-- Tab panes -->
<div class="tab-content">
  <div role="tabpanel" class="tab-pane" id="business">
    {% for i in response1['articles'] %}
  <div class="card">
    <img class="card-img-top" src={{ i['urlToImage'] }} alt="Image not available">
    <div class="card-body">
      <h5 class="card-title">{{ i['title'] }}</h5>
      <p class="card-text"> {{ i['description'] }}</p>
      <a href={{ i['url'] }} class="btn btn-primary">Read more...</a>
    </div>
  </div>
  {% endfor %}
</div>
  <div role="tabpanel" class="tab-pane" id="entertainment">
    {% for i in response2['articles'] %}
  <div class="card">
    <img class="card-img-top" src={{ i['urlToImage'] }} alt="Image not available">
    <div class="card-body">
      <h5 class="card-title">{{ i['title'] }}</h5>
      <p class="card-text"> {{ i['description'] }}</p>
      <a href={{ i['url'] }} class="btn btn-primary">Read more...</a>
    </div>
  </div>
  {% endfor %}
</div>
  <div role="tabpanel" class="tab-pane active" id="general">
    {% for i in response3['articles'] %}
  <div class="card">
    <img class="card-img-top" src={{ i['urlToImage'] }} alt="Image not available">
    <div class="card-body">
      <h5 class="card-title">{{ i['title'] }}</h5>
      <p class="card-text"> {{ i['description'] }}</p>
      <a href={{ i['url'] }} class="btn btn-primary">Read more...</a>
    </div>
  </div>
  {% endfor %}
</div>

```

```

<div role="tabpanel" class="tab-pane" id="health">
    {% for i in response4['articles'] %}

<div class="card">
    <img class="card-img-top" src={{ i['urlToImage'] }} alt="Image not available">
    <div class="card-body">
        <h5 class="card-title">{{ i['title'] }}</h5>
        <p class="card-text"> {{ i['description'] }}</p>
        <a href={{ i['url'] }} class="btn btn-primary">Read more...</a>
    </div>
</div>

    {% endfor %}

</div>
<div role="tabpanel" class="tab-pane" id="science">
    {% for i in response5['articles'] %}

<div class="card">
    <img class="card-img-top" src={{ i['urlToImage'] }} alt="Image not available">
    <div class="card-body">
        <h5 class="card-title">{{ i['title'] }}</h5>
        <p class="card-text"> {{ i['description'] }}</p>
        <a href={{ i['url'] }} class="btn btn-primary">Read more...</a>
    </div>
</div>

    {% endfor %}

</div>
<div role="tabpanel" class="tab-pane" id="sports">
    {% for i in response6['articles'] %}

<div class="card">
    <img class="card-img-top" src={{ i['urlToImage'] }} alt="Image not available">
    <div class="card-body">
        <h5 class="card-title">{{ i['title'] }}</h5>
        <p class="card-text"> {{ i['description'] }}</p>
        <a href={{ i['url'] }} class="btn btn-primary">Read more...</a>
    </div>
</div>

    {% endfor %}

</div>
<div role="tabpanel" class="tab-pane" id="technology">
    {% for i in response7['articles'] %}

<div class="card">
    <img class="card-img-top" src={{ i['urlToImage'] }} alt="Image not available">
    <div class="card-body">

```

[illegible]

```

        <input type="text" name="searchBar" placeholder="Search news here">
        <button>Search</button>
    </form>
</ul>
</div>
</nav>

```

```

<div class="jumbotron">
    <h1 class="display-4">Team Members</h1>
    <hr class="my-4">
    <ol><li>S.Vigneshkumar - Team Leader</li>
    <li>A.Ganeshguru</li>
    <li>R.Naveen</li>
    <li>T.J.Mohan Ram</li>
    </ol>
</div>
</body>
</html>

```

search.html :

```

<!doctype html>
<html lang="en">
    <head>
        <!-- Required meta tags -->
        <meta charset="utf-8">
        <meta name="viewport" content="width=device-width, initial-scale=1">
        <link rel="shortcut icon" href="{ url_for('static', filename='favicon.ico') }">
        <!-- Custom Styles -->
        <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.1.3/css/bootstrap.min.css"
integrity="sha384-MCw98/SFnGE8fJT3GXwEOngsV7Zt27NXFoaoApmYm81iuXoPkFOJwJ8ERdknLPMO" crossorigin="anonymous">
        <link href="https://fonts.googleapis.com/css2?family=Source+Code+Pro:wght@500&display=swap"
rel="stylesheet">

```

```

        <title>NewsToday sources</title>
    </head>
    <body>
<nav class="navbar navbar-expand-md">
    <a class="navbar-brand" href="/"><h2 style="font-family:'Source Code Pro', monospace;">NewsToday</h2></a>
    <button class="navbar-toggler navbar-light" type="button" data-toggle="collapse" data-target="#main-
navigation">
        <span class="navbar-toggler-icon"></span>
    </button>
    <div class="collapse navbar-collapse" id="main-navigation">
        <ul class="navbar-nav">
            <li class="nav-item">
                <a class="nav-link" href="/">Home</a>
            </li>
            <li class="nav-item">
                <a class="nav-link" href="/sources">Sources</a>
            </li>
            <li class="nav-item">

```

[illegible]

```
{% for i in response['articles'] %}
<div class="card">
  <img class="card-img-top" src={{ i['urlToImage'] }} alt="Image not available">
  <div class="card-body">
    <h5 class="card-title">{{ i['title'] }}</h5>
    <p class="card-text"> {{ i['description'] }}</p>
    <a href={{ i['url'] }} class="btn btn-primary">Read more...</a>
  </div>
</div>
{% endfor %}
```

```
</body>  
</html>
```

`sources.html` :

```
<!doctype html>
<html lang="en">
  <head>
    <!-- Required meta tags -->
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <link rel="shortcut icon" href="{{ url_for('static', filename='favicon.ico') }}">
    <!-- Custom Styles -->
    <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.1.3/css/bootstrap.min.css"
integrity="sha384-MCw98/SFNGE8fJT3GXwEOngsV7Zt27NXFoaoApmYm81iuXoPkFOJwJ8ERdknLPMO" crossorigin="anonymous">
    <link href="https://fonts.googleapis.com/css2?family=Source+Code+Pro:wght@500&display=swap"
rel="stylesheet">
```

```
<title>NewsToday sources</title>
</head>
<body>
<nav class="navbar navbar-expand-md">
  <a class="navbar-brand" href="/"><h2 style="font-family:'Source Code Pro', monospace;">NewsToday</h2></a>
  <button class="navbar-toggler navbar-light" type="button" data-toggle="collapse" data-target="#main-
navigation">
    <span class="navbar-toggler-icon"></span>
  </button>
  <div class="collapse navbar-collapse" id="main-navigation">
    <ul class="navbar-nav">
      <li class="nav-item">
```



```

<body>
<nav class="navbar navbar-expand-md">
<a class="navbar-brand" href="/"><h2 style="font-family:'Source Code Pro', monospace;">NewsToday</h2></a>
<button class="navbar-toggler navbar-light" type="button" data-toggle="collapse" data-target="#main-
navigation">
<span class="navbar-toggler-icon"></span>
</button>
<div class="collapse navbar-collapse" id="main-navigation">
<ul class="navbar-nav">
<li class="nav-item">
<a class="nav-link" href="/">Home</a>
</li>
<li class="nav-item">
<a class="nav-link" href="/sources">Sources</a>
</li>
<li class="nav-item">
<a class="nav-link" href="/about">About me</a>
</li>&nbsp;&nbsp;&nbsp;
<form action="{{ url_for('search') }}" , method="post">
<input type="text" name="searchBar" placeholder="Search news here">
<button>Search</button>
</form>
</ul>
</div>
</nav>
<div class="card">

<div class="card-body">
<h5 class="card-title">404 Not Found</h5>
<p class="card-text">You may entered wrong url manually. Click below button to redirect to homepage</p>
<a href="/" class="btn btn-primary">Go to homepage</a>
</div>
</div>
</body>
</html>

```

main.py :

```

from flask import Flask, render_template, url_for, send_from_directory, request
from requests import get
from os.path import join

app = Flask(__name__)

@app.route('/')
def index():
    #print(request.remote_addr)
    response1 = get("https://newsapi.org/v2/top-headlines?country=in", params = {'apiKey' : 'Your API Key',
'category' : 'business'}).json()
    response2 = get("https://newsapi.org/v2/top-headlines?country=in", params = {'apiKey' : 'Your API Key',
'category' : 'entertainment'}).json()

```



```

    response3 = get("https://newsapi.org/v2/top-headlines?country=in", params = {'apiKey' : 'Your API Key',
'category' : 'general'}).json()
    response4 = get("https://newsapi.org/v2/top-headlines?country=in", params = {'apiKey' : 'Your API Key',
'category' : 'health'}).json()
    response5 = get("https://newsapi.org/v2/top-headlines?country=in", params = {'apiKey' : 'Your API Key',
'category' : 'science'}).json()
    response6 = get("https://newsapi.org/v2/top-headlines?country=in", params = {'apiKey' : 'Your API Key',
'category' : 'sports'}).json()
    response7 = get("https://newsapi.org/v2/top-headlines?country=in", params = {'apiKey' : 'Your API Key',
'category' : 'technology'}).json()
    return render_template('index.html', response1 = response1, response2 = response2, response3 =
response3, response4 = response4, response5 = response5, response6 = response6, response7 = response7)

@app.route('/search', methods=['POST'])
def search():
    response = get("https://newsapi.org/v2/everything", params={'apikey' : 'Your API Key', 'q' :
request.form['searchBar']}).json()
    return render_template('search.html', response = response)

@app.route('/sources')
def sources():
    response = get("https://newsapi.org/v2/sources", params = {'apiKey' : 'Your API Key'}).json()
    return render_template('sources.html', name = response)

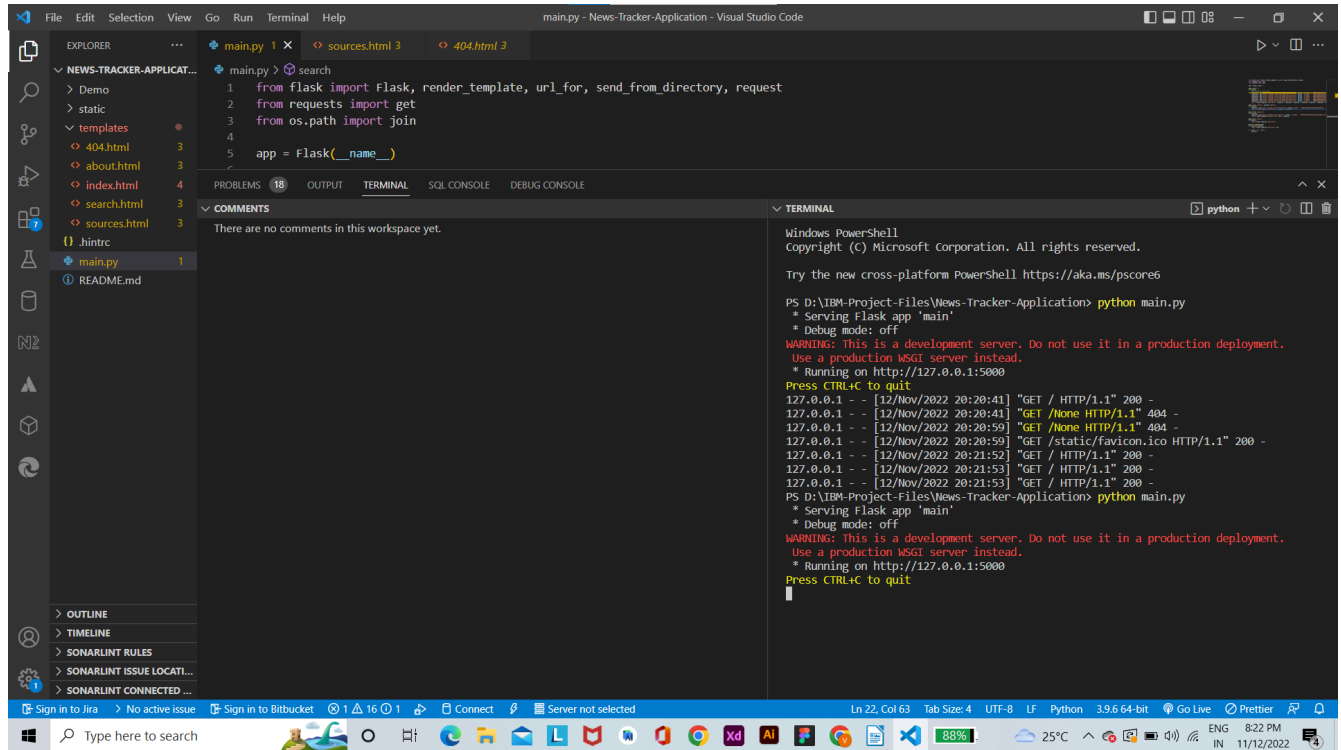
@app.route('/about')
def about():
    return render_template('about.html')

@app.errorhandler(404)
def page_not_found(e):
    return render_template('404.html'), 404

if __name__ == "__main__":
    app.run()

```

Start the Application :



The screenshot shows the Visual Studio Code interface with the following components:

- EXPLORER:** Shows the project structure for 'NEWS-TRACKER-APPLICATION' with files like `main.py`, `sources.html`, and `404.html`.
- EDITOR:** Displays the `main.py` file with the following code:

```
1 from flask import Flask, render_template, url_for, send_from_directory, request
2 from requests import get
3 from os.path import join
4
5 app = Flask(__name__)
```
- TERMINAL:** Shows the output of running the application:

```
Windows PowerShell
Copyright (c) Microsoft Corporation. All rights reserved.

Try the new cross-platform PowerShell https://aka.ms/pscore6

PS D:\IBM-Project-Files\News-Tracker-Application> python main.py
* Serving Flask app "main"
* Debug mode: off
WARNING: This is a development server. Do not use it in a production deployment.
Use a production WSGI server instead.
* Running on http://127.0.0.1:5000
Press CTRL+C to quit
127.0.0.1 - - [12/Nov/2022 20:20:41] "GET / HTTP/1.1" 200 -
127.0.0.1 - - [12/Nov/2022 20:20:41] "GET / HTTP/1.1" 404 -
127.0.0.1 - - [12/Nov/2022 20:20:59] "GET /static/favicon.ico HTTP/1.1" 200 -
127.0.0.1 - - [12/Nov/2022 20:21:52] "GET / HTTP/1.1" 200 -
127.0.0.1 - - [12/Nov/2022 20:21:53] "GET / HTTP/1.1" 200 -
127.0.0.1 - - [12/Nov/2022 20:21:53] "GET / HTTP/1.1" 200 -
PS D:\IBM-Project-Files\News-Tracker-Application> python main.py
* Serving Flask app "main"
* Debug mode: off
WARNING: This is a development server. Do not use it in a production deployment.
Use a production WSGI server instead.
* Running on http://127.0.0.1:5000
Press CTRL+C to quit
```

Output Screen Shots :

