

WEB DEVELOPMENT USING FLASK
PROJECT REPORT
ON
DAILY NEWS

Submitted by

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A report for the project submitted to the Faculty of
FULL STACK SOFTWARE DEVELOPMENT

in partial fulfillment
for the award of the degree
of

MASTERS
in
COMPUTER APPLICATION



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ABSTRACT

In this project I have developed a news based web app for reading daily news.

In this there is seprate coulounn for daily headlined which is added or brought through APIs of Hindustan times. There are various card showing daily important headlines which can be read one by one. There is also a search module which can be used to search type of news based on our choice.

SETTING VIRTUAL ENVIRONMENT AND ISNTALLING FLASK AND RUNNING APP.PY:

```
C:\Windows\System32\cmd.exe - flask run
Microsoft Windows [Version 10.0.19042.630]
(c) 2020 Microsoft Corporation. All rights reserved.

C:\flask_app>py -m venv envr

C:\flask_app>envr\Scripts\activate

(env) C:\flask_app>envr\Scripts\activate

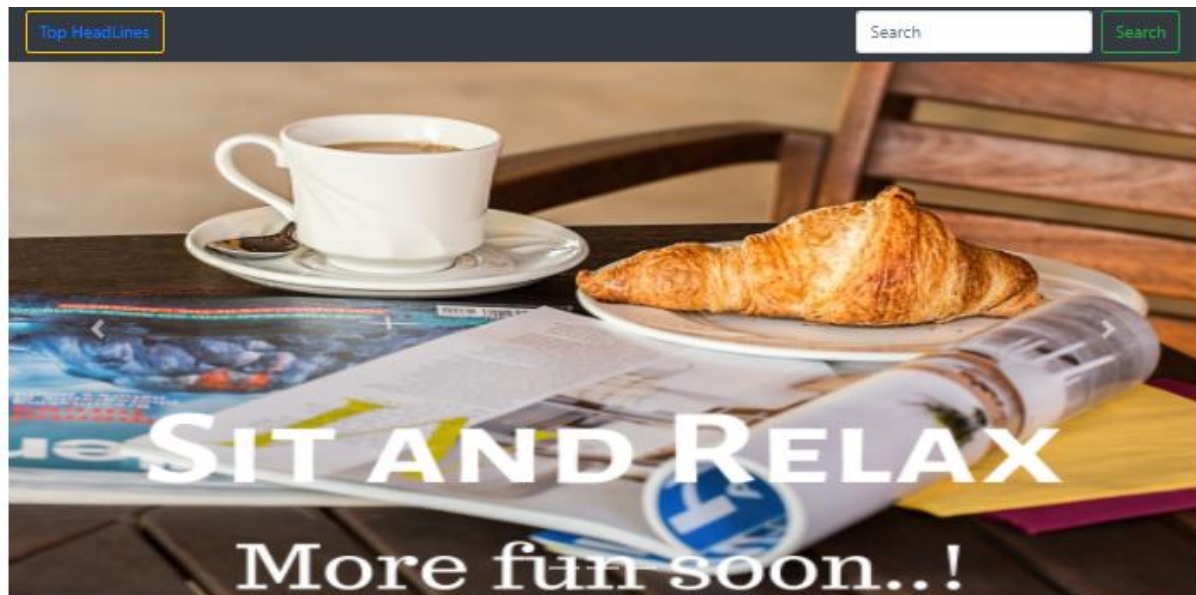
(envr) C:\flask_app>set FLASK_APP=app.py

(envr) C:\flask_app>flask run
'flask' is not recognized as an internal or external command,
operable program or batch file.









(envr) C:\flask_app>flask run
'flask' is not recognized as an internal or external command,
operable program or batch file.





(envr) C:\flask_app>pip install flask
Collecting flask
  Using cached Flask-1.1.2-py2.py3-none-any.whl (94 kB)
Collecting itsdangerous>=0.24
  Using cached itsdangerous-1.1.0-py2.py3-none-any.whl (16 kB)
Collecting click>=5.1
  Using cached click-7.1.2-py2.py3-none-any.whl (82 kB)
Collecting Werkzeug>=0.15
  Using cached Werkzeug-1.0.1-py2.py3-none-any.whl (298 kB)
Collecting Jinja2>=2.10.1
  Using cached Jinja2-2.11.2-py2.py3-none-any.whl (125 kB)
```

OUTPUTS:



Top Head Lines

 <p>Support for Sonia Gandhi, Rahul apparent to 'anyone not blind': Salman Khurshid - The Indian Express</p> <p>Published: 2020-11-22 "Why should you give up your ideology. If your ideology is not persuading the voter to go with you, ..."</p> Read more	 <p>India not only meeting Paris Agreement targets, but also exceeding them: PM Modi at G20 - Mint</p> <p>Published: 2020-11-22 "We aim to restore 26 million hectares of degraded land by 2030; we are encouraging a circular econo..."</p> Read more	 <p>My COVID Story: 'I felt so breathless that I could not walk' - Times of India</p> <p>Published: 2020-11-22 I could not understand why I was experiencing a headache all of a sudden. Made a hot cup of coffee a...</p> Read more	 <p>From India to Brazil: Astra-Oxford shot is key to escaping pandemic for many nations - Hindustan Times</p> <p>Published: 2020-11-22 Astra has said it won't profit during the pandemic and that the vaccine will cost between \$4 and \$5 ...</p> Read more
 <p>Barcelona rule Sergi Roberto out for two months, offer update on</p>	 <p>"Through Thick And Thin": India Teammates Rally Around Mohammed</p>	 <p>'Giving clean chit to Gandhis because...': Azad on criticism of Congress</p>	 <p>Massive operation on to find tunnel suspected to have been used by Jaish</p>

 <p>Barcelona rule Sergi Roberto out for two months, offer update on Gerard Pique - Barca Blaugranes</p> <p>Published: 2020-11-22 The duo picked up problems against Atletico...</p> <p>Read more</p>	 <p>"Through Thick And Thin": India Teammates Rally Around Mohammed Siraj - NDTVSports.com</p> <p>Published: 2020-11-22 Mohammed Siraj can be seen sitting with several teammates in a photo posted by the Indian team's off...</p> <p>Read more</p>	 <p>'Giving clean chit to Gandhis because...': Azad on criticism of Congress leadership - Hindustan Times</p> <p>Published: 2020-11-22 "Congress is at its lowest in 72 years. Congress does not have even the post of Leader of Opposition..."</p> <p>Read more</p>	 <p>Massive operation on to find tunnel suspected to have been used by Jaish terrorists killed in Nagro... - Hindustan Times</p> <p>Published: 2020-11-22 All the four terrorists were killed in a gunfight when a Kashmir-bound truck, in which they were tra...</p> <p>Read more</p>
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SEARCH BASED RESULTS :

Top Headlines

Search

Search

The Daily News.

TEXAS' OLDEST NEWSPAPER • PUBLISHING SINCE 1842

search results:'DELHI'

op 20 results here.

 <p>IPL: Delhi Capitals beat Royal Challengers Bangalore</p> <p>Published:2020-11-02 Delhi Capitals ensure they will have two opportunities to reach the final of the Indian Premier League with a six-wicket...</p> <p>Read more</p>	 <p>Bumrah's 4-14 helps Mumbai past Delhi to reach IPL final</p> <p>Published:2020-11-05 Jasprit Bumrah's 4-14 helps Mumbai Indians reach the final of the Indian Premier League with a dominant 57-run victory o...</p> <p>Read more</p>	<p>Card image cap</p>  <p>Red light? Then turn engine off, Delhi urges motorists amid heavy pollution - Reuters India</p> <p>Published:2020-11-13 Red light? Then turn engine off. Delhi urges motorists amid heavy pollution. Reuters India...</p> <p>Read more</p>	 <p>Ruthless Mumbai crush Delhi to reach IPL final - Reuters</p> <p>Published:2020-11-06 Defending champions Mumbai Indians moved closer to a fifth Indian Premier League (IPL) title on Thursday, steamrolling D...</p> <p>Read more</p>
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CODES:

1. INDEX.HTML :

```
{% extends "layout.html" %}

{% block content %}

<h1> Top Head Lines </h1>
<div class="card-group" >
{% for i in articles[:4] %}

<div class="card border border-success">
  
  <div class="card-body">
    <h5 class="card-title">{{ i['title'] }}</h5>
    <span><b>Published: </b><i>{{ i['publishedAt'][:10]}}</i></span>
    <p class="card-text">{{ i['description'][:100] }}... </p>
    <a href="{{i['url']}}" class="btn btn-success">Read more</a>
  </div>
</div>

{% endfor %}
</div>

<div class="card-group" >
{% for i in articles[4:8] %}

<div class="card border border-success">

  
  <div class="card-body">
    <h5 class="card-title">{{ i['title'] }}</h5>
    <span><b>Published: </b><i>{{ i['publishedAt'][:10]}}</i></span>
    <p class="card-text">{{ i['description'][:100]}}... </p>

    <a href="{{i['url']}}" class="btn btn-success">Read more</a>
  </div>
</div>

{% endfor %}
</div>

{% endblock %}
```

2.LAYOUT.HTML :

```
<!doctype html>
<html lang="en">
  <head>
    <!-- Required meta tags -->
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">

    <!-- Bootstrap CSS -->
    <link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/css/bootstrap.min.css"
integrity="sha384-
Gn5384xqQ1aoWXA+058RXPxPg6fy4IWvTNh0E263XmFcJlSAwiGgFAW/dAiS6JXm
" crossorigin="anonymous">
    <script src='static/js/style.js'></script>

    <link rel="stylesheet" style='text/css'href="{{ url_for('static',
filename='static/style.css') }}" media="all">

  <title>Daily News</title>
</head>
<body>

<div class="container">

<nav class="navbar navbar-dark bg-dark">
  <!-- Navbar content -->

    <button class="btn btn-outline-warning" type="button"><a style="text-
decoration:none" href="{{url_for('home')}}">Top HeadLines</a></button>
    <form class="form-inline" method='POST' action={{ url_for('search')}}>
      <input class="form-control mr-sm-2" name='search' type="search"
placeholder="Search" aria-label="Search">
      <button class="btn btn-outline-success my-2 my-sm-0"
type="submit">Search</button>
    </form>

  </nav>
<div id="carouselExampleIndicators" class="carousel slide" data-ride="carousel">
  <ol class="carousel-indicators">
    <li data-target="#carouselExampleIndicators" data-slide-to="0"
class="active"></li>
    <li data-target="#carouselExampleIndicators" data-slide-to="1"></li>
    <li data-target="#carouselExampleIndicators" data-slide-to="2"></li>
  </ol>
  <div class="carousel-inner">
    <div class="carousel-item active">
      
    </div>
    <div class="carousel-item">
      
    </div>
  </div>
</div>
```



```

</div>
<div class="carousel-item">
  
</div>
<div class="carousel-item">
  
</div>
</div>
<a class="carousel-control-prev" href="#carouselExampleIndicators" role="button"
data-slide="prev">
  <span class="carousel-control-prev-icon" aria-hidden="true"></span>
  <span class="sr-only">Previous</span>
</a>
<a class="carousel-control-next" href="#carouselExampleIndicators" role="button"
data-slide="next">
  <span class="carousel-control-next-icon" aria-hidden="true"></span>
  <span class="sr-only">Next</span>
</a>
</div>
  <br>
  {% block content %}

{% endblock %}

</div>
</div>

</div>

<!-- Footer -->

<footer class="page-footer font-small blue">

  <!-- Copyright -->
  <div class="footer-copyright text-center py-3">© 2020 Copyright:
    <a href="#"> anjank663@gmail.com</a>
  </div>
  <!-- Copyright -->

</footer>
<!-- Footer -->
  <!-- Optional JavaScript -->
  <!-- jQuery first, then Popper.js, then Bootstrap JS -->
  <script src="https://code.jquery.com/jquery-3.2.1.slim.min.js" integrity="sha384-
KJ3o2DKtIkVYIK3UENzmM7KChRr/rE9/Qpg6aAZGJwFDMVNA/GpGFF93hXpG5
KkN" crossorigin="anonymous"></script>
  <script
src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.12.9/umd/popper.min.js"
integrity="sha384-
ApNbgh9B+Y1QKtv3Rn7W3mgPxhU9K/ScQsAP7hUibX39j7fakFPskvXusvfa0b4Q"
crossorigin="anonymous"></script>

```



```

    <script src="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/js/bootstrap.min.js"
    integrity="sha384-
    JZR6Spejh4U02d8jOt6vLEHfe/JQGiRRSQQxSfFWpi1MquVdAyjUar5+76PVCmYI"
    crossorigin="anonymous"></script>
  </body>
</html>

```

3.SEARCH.HTML :

```

{% extends "layout.html" %}

{% block content %}
<h1> search results: '{{ data }}' </h1>
<small style='color:green;'> Top 20 results here.</small>
<div class="card-group">
{% set c=0 %}
{% for i in articles[:4] %}
<div class="card border border-success">
  
  <div class="card-body">
    <h5 class="card-title">{{ i['title'] }}</h5>
    <span><b>Published:</b><i>{{ i['publishedAt'][:10] }}</i></span>
    <p class="card-text">{{ i['description'][:120] }}... </p>
    <a href="{{ i['url'] }}" class="btn btn-success">Read more</a>
  </div>
</div>

{% endfor %}
</div>

<div class="card-group">
{% for i in articles[4:8] %}
<div class="card border border-success">
  
  <div class="card-body">
    <h5 class="card-title">{{ i['title'] }}</h5>
    <span><b>Published:</b><i>{{ i['publishedAt'][:10] }}</i></span>
    <p class="card-text">{{ i['description'][:120] }}... </p>
    <a href="{{ i['url'] }}" class="btn btn-success">Read more</a>
  </div>
</div>
{% endfor %}
</div>

<div class="card-group">
{% for i in articles[8:12] %}
<div class="card border border-success">

```

```

    
    <div class="card-body">
        <h5 class="card-title">{{ i['title'] }}</h5>
        <span><b>Published:</b><i>{{ i['publishedAt'][:10] }}</i></span>
        <p class="card-text">{{ i['description'][:120] }}... </p>
        <a href="{{ i['url'] }}" class="btn btn-success">Read more</a>
    </div>
</div>
{% endfor %}
<div>

<div class="card-group">
{% for i in articles[12:16] %}
<div class="card border border-success">
    
    <div class="card-body">
        <h5 class="card-title">{{ i['title'] }}</h5>
        <span><b>Published:</b><i>{{ i['publishedAt'][:10] }}</i></span>
        <p class="card-text">{{ i['description'][:120] }}... </p>
        <a href="{{ i['url'] }}" class="btn btn-success">Read more</a>
    </div>
</div>
{% endfor %}
<div>

<div class="card-group">
{% for i in articles[16:20] %}
<div class="card border border-success">
    
    <div class="card-body">
        <h5 class="card-title">{{ i['title'] }}</h5>
        <span><b>Published:</b><i>{{ i['publishedAt'][:10] }}</i></span>
        <p class="card-text">{{ i['description'][:120] }}... </p>
        <a href="{{ i['url'] }}" class="btn btn-success">Read more</a>
    </div>
</div>
{% endfor %}
<div>

{% endblock %}

```

4. APP.PY :

```
#from bs4 import BeautifulSoup
#from newsapi import NewsApiClient
from flask import Flask,request,render_template,url_for,redirect
import requests

#newsapi = NewsApiClient(api_key='65729ab9862c408a85621220be43ee5f')

#top_headlines = newsapi.get_top_headlines(q='bitcoin',
#                                           # sources='bbc-news,the-verge',
#                                           ## category='business',
#                                           # language='en',
#                                           # country='in')

app = Flask(__name__)

url = ('https://newsapi.org/v2/top-headlines?'
      'country=in&'
      'apiKey=65729ab9862c408a85621220be43ee5f')
def get_data(url):
    response = requests.get(url)
    data = response.json()
    articles = data['articles']
    return articles

articles = get_data(url)

@app.route('/')
def home():
    return render_template('index.html',articles=articles)

@app.route('/invalid')
def invalid():
    return "<center><h2 style='color:green;'>something went wrong..!</h2></center>"

@app.route('/search', methods=['POST','GET'])
def search():
    if request.method == 'POST':
        data = request.form['search']
        if not data:
            return redirect(url_for('invalid'))
        else:
            url=
('https://newsapi.org/v2/everything?q='+data+'&apiKey=65729ab9862c408a85621220be43ee5f')
            articles = get_data(url)
            return render_template('search.html',articles=articles,data=data)

#print(get_data(url))
#else:
#    redirect(url_for('index.html'))
```

```
if __name__ == '__main__':  
    app.run(debug=True)
```