PROJECT NAME: News Tracker Application

Team ID: PNT2022TMID19214

SPRINT-3

```
# Using flask to make an api
# import necessary libraries and functions from
flask import Flask, jsonify, request
# creating a Flask app app
= Flask(__name___)
# on the terminal type: curl http://127.0.0.1:5000/#
returns hello world when we use GET.
# returns the data that we send when we use POST.
@app.route('/', methods = ['GET', 'POST']) def
home(): if(request.method == 'GET'):
      data = "hello world"
                               return
jsonify({'data': data})
# A simple function to calculate the square of a number
# the number to be squared is sent in the URL when we use GET
# on the terminal type: curl http://127.0.0.1:5000 / home / 10
```

```
# this returns 100 (square of 10)
@app.route('/home/<int:num>', methods = ['GET'])

def disp(num):     return jsonify({'data': num**2})

# driver function if
__name__ == '__main__':
     app.run(debug = Tru# import necessary libraries and functions

from flask import Flask, jsonify, request

# creating a Flask app app
= Flask(__name__)

# on the terminal type: curl http://127.0.0.1:5000/ #

returns hello world when we use GET.

# returns the data that we send when we use POST.
```

OUTPUT:

```
adith@lawliet: ~/gfg
File Edit View Search Terminal Help
adith@lawliet:~/gfg$ python3 app.py
* Serving Flask app "app" (lazy loading)
* Environment: production
   Use a production WSGI server instead.
 * Debug mode: on
 * Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)
 * Restarting with stat
 * Debugger is active!
* Debugger PIN: 269-640-723
                                                                                      adith@lawliet: ~
   File Edit View Search Terminal Help
   adith@lawliet:~$ curl http://127.0.0.1:5000/
      "message": "hello world"
   adith@lawliet:~$
```

Method:

using flask_restful from flask import

```
Flask, jsonify, request from

flask_restful import Resource, Api

# creating the flask app

app = Flask(_name_) #

creating an API object

api = Api(app)

# making a class for a particular resource

# the get, post methods correspond to get and post requests

# they are automatically mapped by flask_restful.

# other methods include put, delete, etc.
```

```
class Hello(Resource):
  # corresponds to the GET request.
  # this function is called whenever there # is a
GET request for this resource def get(self):
return jsonify({'message': 'hello world'})
  # Corresponds to POST request def post(self):
data = request.get_json() # status code
                                              return
jsonify({'data': data}), 201
# another resource to calculate the square of a number class
Square(Resource):
    def get(self, num):
      return jsonify({'square': num**2})
 # adding the defined resources along with their corresponding urls api.add_resource(Hello,
'/')
api.add_resource(Square, '/square/<int:num>')
 # driver function if
__name___== '_main_':
   app.run(debug = True)
```

Output:

```
File Edit View Search Terminal Help
adith@lawliet:~/gfg$ python3 app.py
* Serving Flask app "app" (lazy loading)
 * Environment: production
    Use a production WSGI server instead.
 * Debug mode: on
 * Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)
 * Restarting with stat
 * Debugger is active!
 * Debugger PIN: 269-640-723
127.0.0.1 - - [27/Jul/2019 23:37:43] "GET / HTTP/1.1" 200 - 127.0.0.1 - - [27/Jul/2019 23:37:47] "GET /square/10 HTTP/1.1" 200 - 127.0.0.1 - - [27/Jul/2019 23:37:49] "GET /square/19 HTTP/1.1" 200 -
                                                                                                88
                                            adith@lawliet: ~
 File Edit View Search Terminal Help
 adith@lawliet:~$ curl http://127.0.0.1:5000/
   "message": "hello world"
adith@lawliet:~$ curl http://127.0.0.1:5000/square/10
   "square": 100
adith@lawliet:~$ curl http://127.0.0.1:5000/square/19
   "square": 361
adith@lawliet:-$
```