PROJECT NAME : News Tracker Application

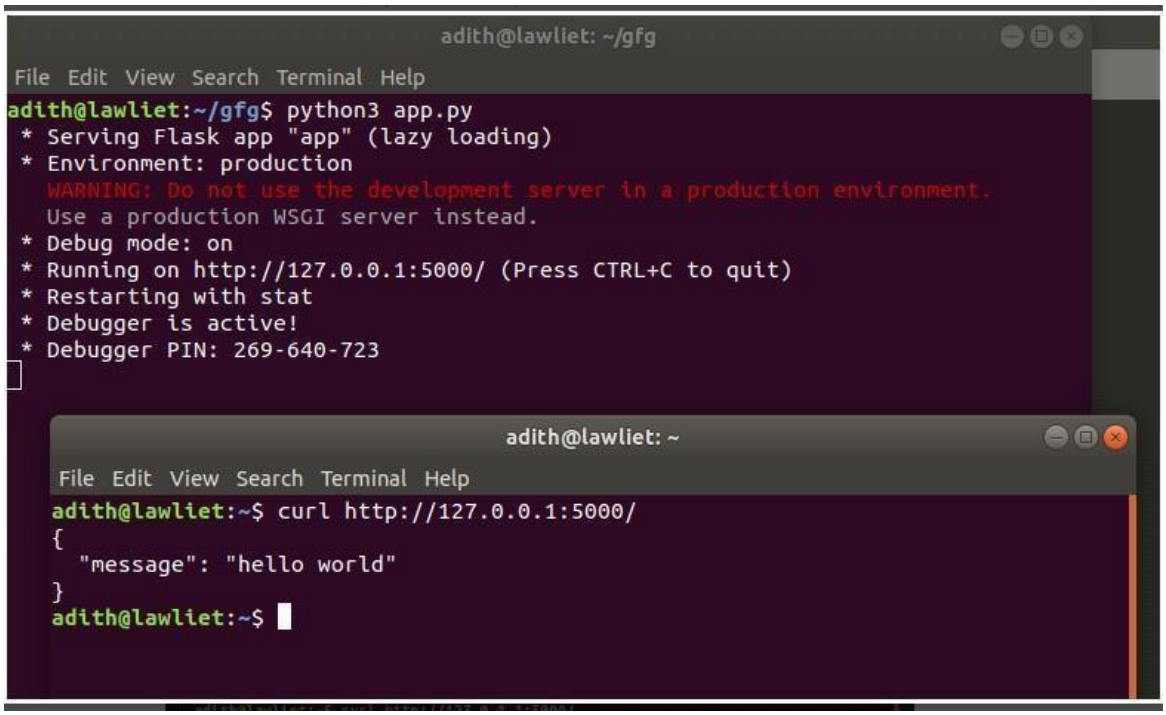
Team ID : PNT2022TMID21754

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 :



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

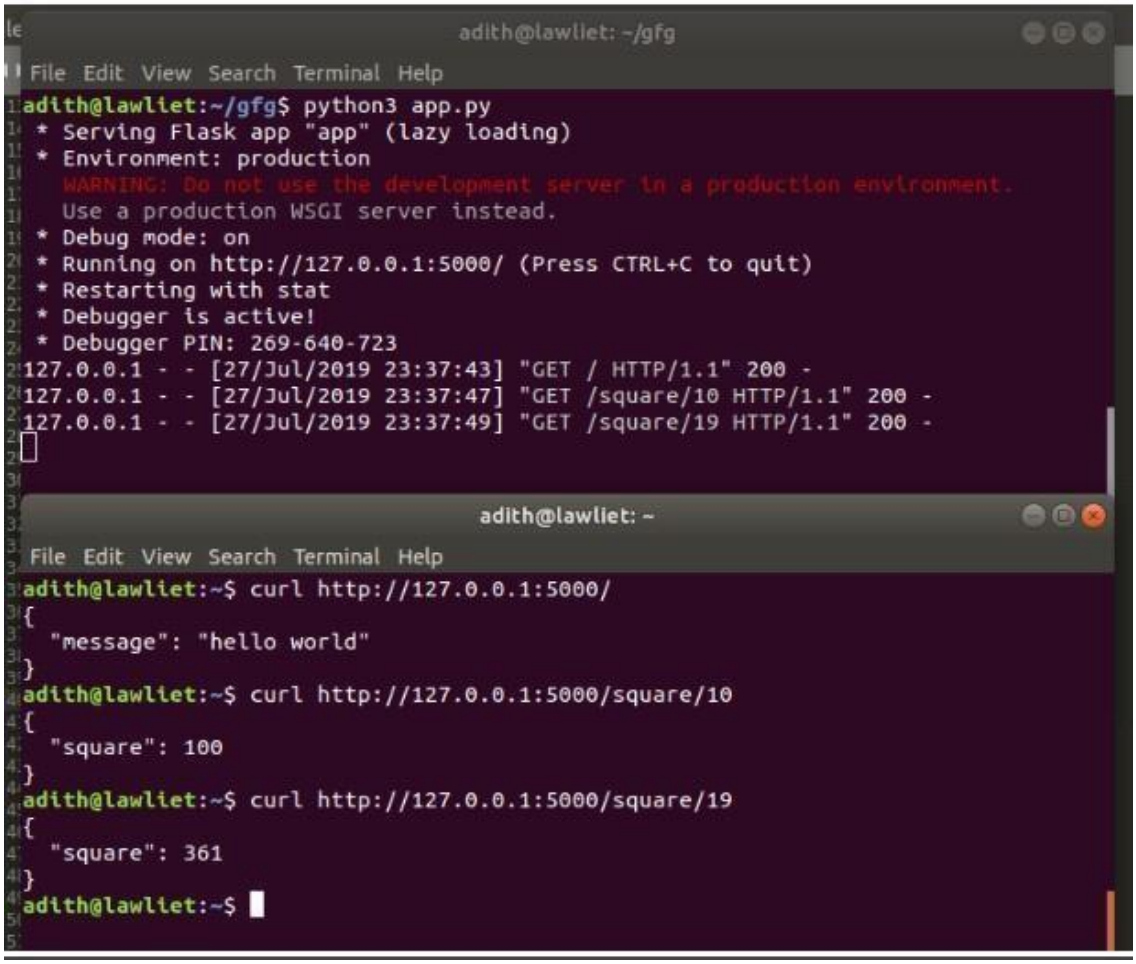
the get, post methods correspond to get and post requests

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:


adith@lawliet: ~/gfg
File Edit View Search Terminal Help
adith@lawliet:~/gfg$ python3 app.py
* Serving Flask app "app" (lazy loading)
* Environment: production
WARNING: Do not use the development server in a production environment.
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 -
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:~$