

ASSIGNMENT

29/10/2022

Intern Name : Pavithra R

College Name : M.Kumarasamy college of engineering

Training Name : Python & Flask

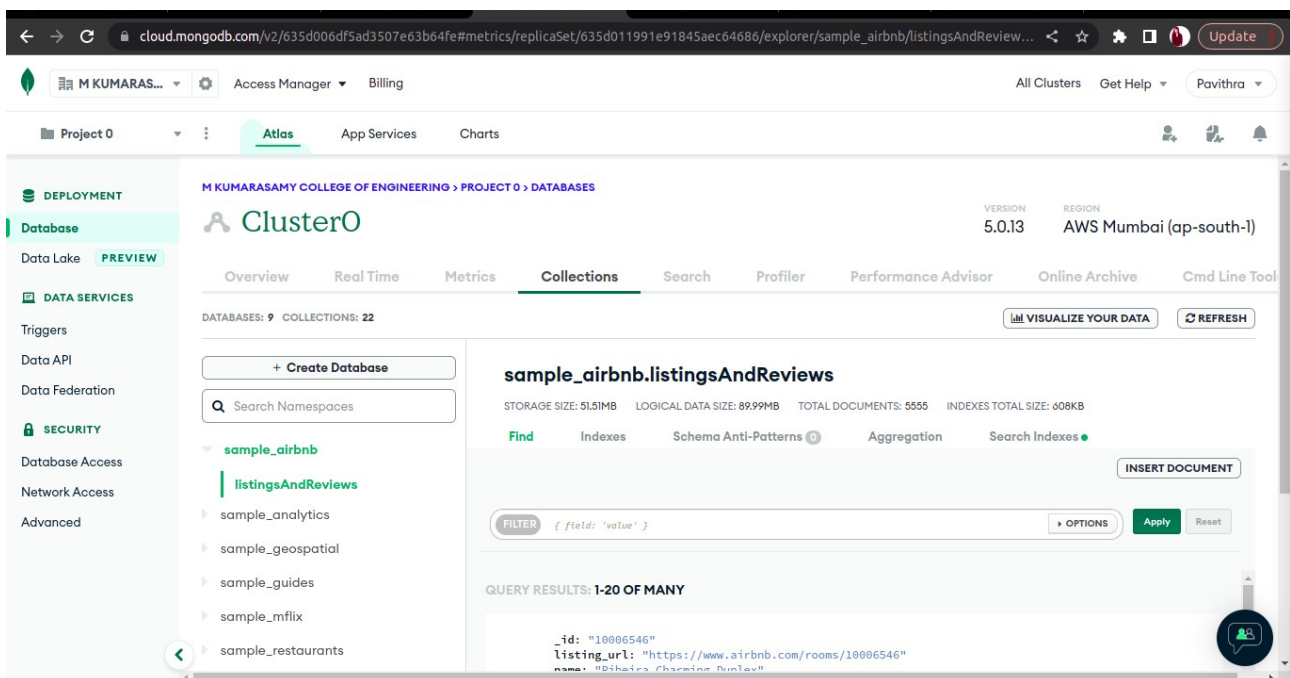
Assignment Name : Task - 1 : Setup the MongoDB atlas and attach me the screenshot of the cluster collections page.

Task - 2 : Make the REST API using Flask.

Task - 3 : Consume the API via postman and Attach me the screenshot of CRUD operations to MongoDB via postman.

Task - 4 (Additional Task – Optional) : Create a repository and commit all your code changes in the branch, push it to GitHub and share the GitHub link. (Try these out, these practice will help you in the live projects.)

1. Setup the MongoDB atlas and attach me the screenshot of the cluster collections page.



2. Make the REST API using Flask.

api.py(text file):

```
from flask import Flask, jsonify, request

api = Flask(__name__)

@api.route('/', methods = ['GET', 'POST'])

def home():

    if(request.method == 'GET'):

        data = "hello world"

        return jsonify({'data': data})

@api.route('/home/<int:num>', methods = ['GET'])

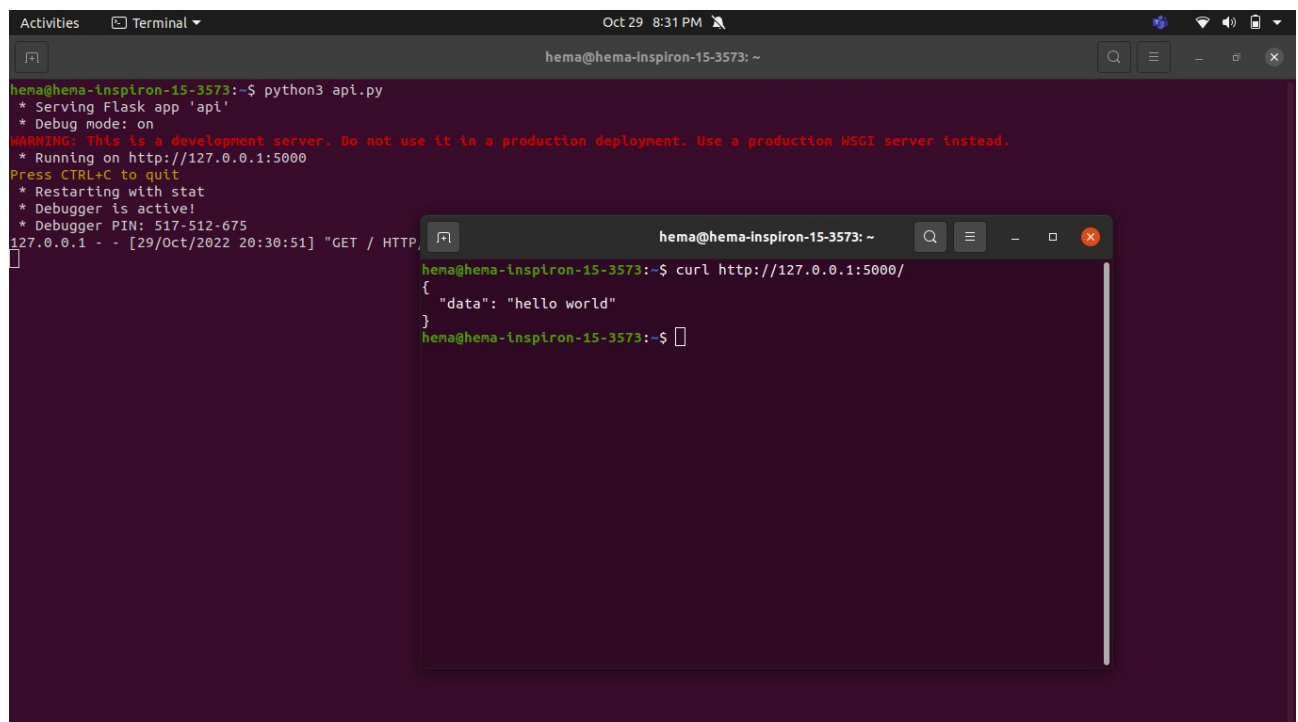
def disp(num):

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

if __name__ == '__main__':

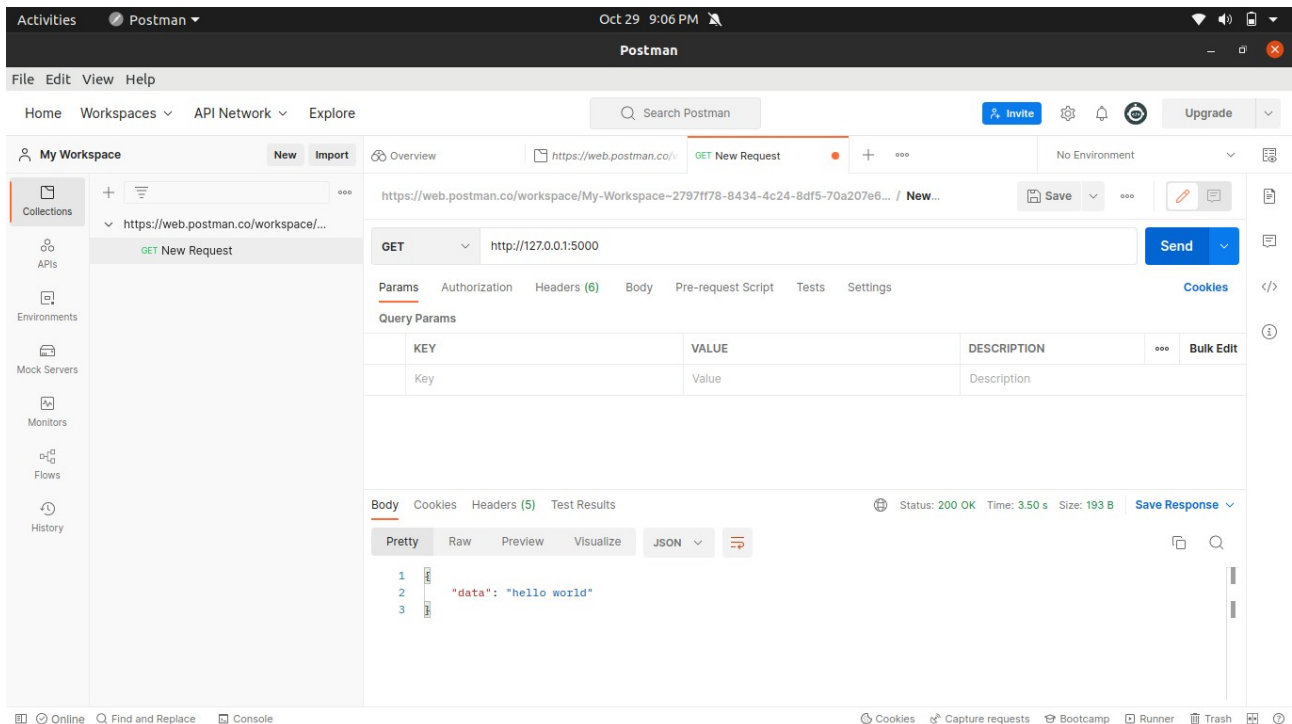
    api.run(debug = True)
```

output:

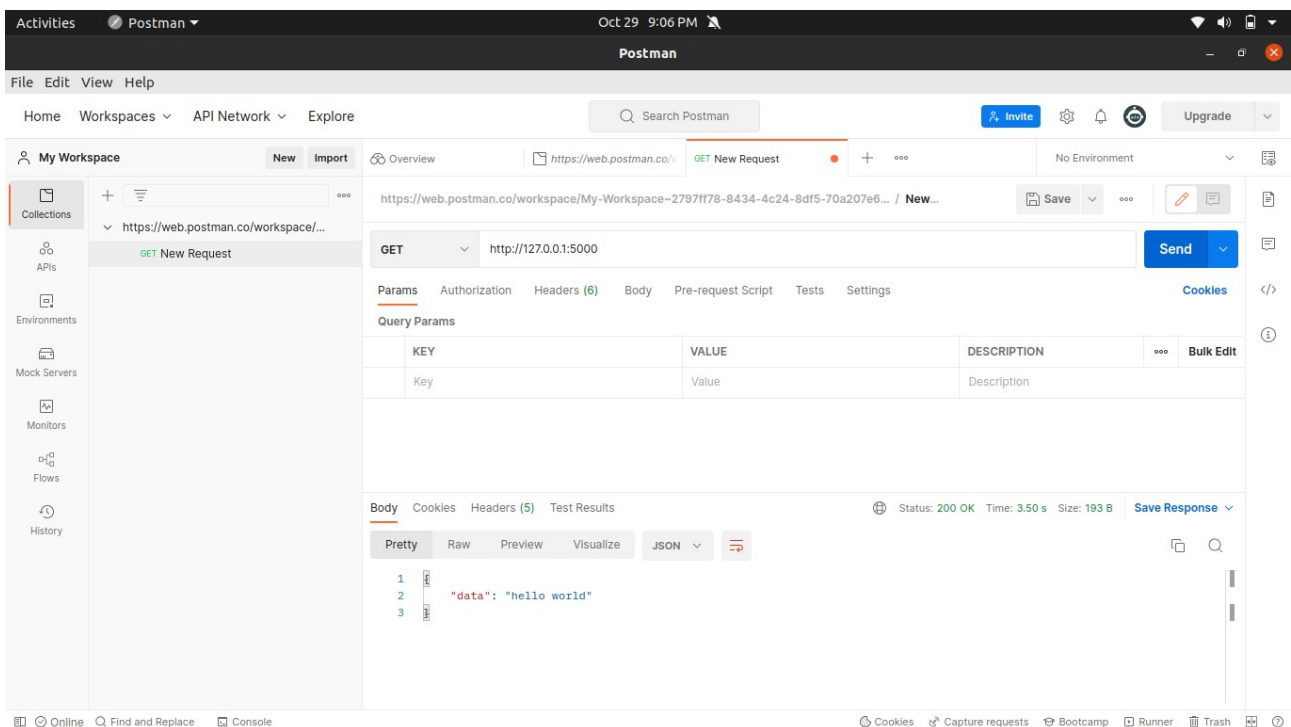


```
hema@hema-inspiron-15-3573: ~  
hema@hema-inspiron-15-3573:~$ python3 api.py  
* Serving Flask app 'api'  
* Debug mode: on  
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.  
* Running on http://127.0.0.1:5000  
Press CTRL+C to quit  
* Restarting with stat  
* Debugger is active!  
* Debugger PIN: 517-512-675  
127.0.0.1 - - [29/Oct/2022 20:30:51] "GET / HTTP/1.1" 200 16  
hema@hema-inspiron-15-3573:~$ curl http://127.0.0.1:5000/  
{  
  "data": "hello world"  
}
```

3. Consume the API via postman and Attach me the screenshot of CRUD operations to MongoDB via postman.



CRUD operations:



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Collections + https://web.postman.co/workspace/... GET New Request

APIs Environments Mock Servers Monitors Flows History

PUT http://127.0.0.1:5000 Send

Params Authorization Headers (7) Body Pre-request Script Tests Settings Cookies

Query Params

KEY	VALUE	DESCRIPTION
Key	Value	Description

Body Cookies Headers (6) Test Results Status: 405 METHOD NOT ALLOWED Time: 540 ms Size: 376 B Save Response

Pretty Raw Preview Visualize HTML

```
1 <!doctype html>
2 <html lang=en>
3 <title>405 Method Not Allowed</title>
4 <h1>Method Not Allowed</h1>
5 <p>The method is not allowed for the requested URL.</p>
6
```

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Collections + https://web.postman.co/workspace/... GET New Request

APIs Environments Mock Servers Monitors Flows History

POST http://127.0.0.1:5000 Send

Params Authorization Headers (7) Body Pre-request Script Tests Settings Cookies

Query Params

KEY	VALUE	DESCRIPTION
Key	Value	Description

Body Cookies Headers (5) Test Results Status: 500 INTERNAL SERVER ERROR Time: 1269 ms Size: 11.7 KB Save Response

Pretty Raw Preview Visualize HTML

```
1 <!doctype html>
2 <html lang=en>
3 <head>
4   <title>TypeError: The view function for 'home' did not return a valid response. The function either returned
   None or ended without a return statement.
5 // Werkzeug Debugger</title>
6 <link rel="stylesheet" href="?__debugger__=yes&cmd=resource&f=style.css">
7 <link rel="shortcut icon">
```

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