# **Rest API Using Django Rest Framework**

# 1. Statement:

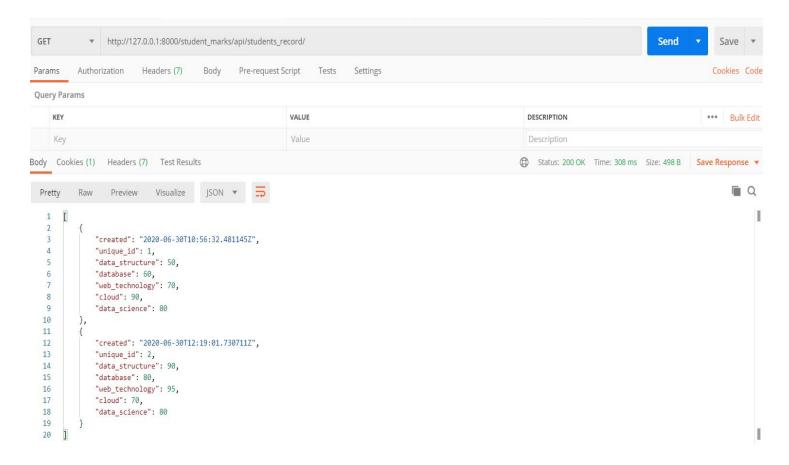
Develop a rest api ( Django Rest framework) to fetch details of Student marks record based on his identity number .

# 2. Technologies/Library/Tools:

- a. Python
- b. Django
- c. Django Rest Framework
- d. Postman: For Testing API

#### 3. Screenshots:

#### Marks record of All student



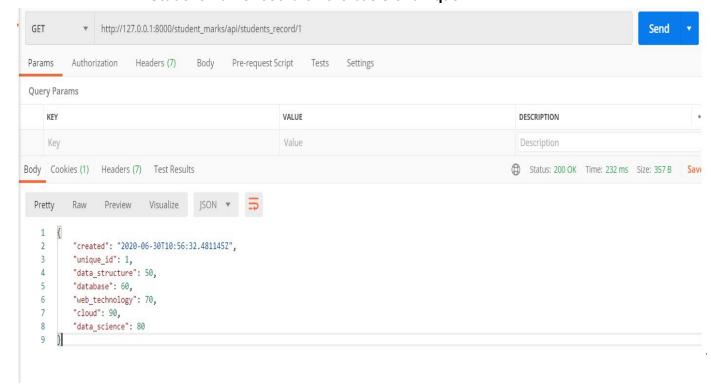
# Django REST framework

Student Record

# Student Record

```
GET /student_marks/api/students_record/
HTTP 200 OK
Allow: OPTIONS, GET
Content-Type: application/json
Vary: Accept
       "created": "2020-06-30T10:56:32.481145Z",
        "unique_id": 1,
        "data_structure": 50,
        "database": 60,
        "web_technology": 70,
        "cloud": 90,
        "data_science": 80
       "created": "2020-06-30T12:19:01.730711Z", "unique_id": 2,
        "data_structure": 90,
        "database": 80,
        "web_technology": 95,
        "cloud": 70,
        "data_science": 80
```

# Student Marks record on the basis of unique ID



# Django REST framework

Student Record / Student Record By Prn

# Student Record By Prn

```
GET /student_marks/api/students_record/1/

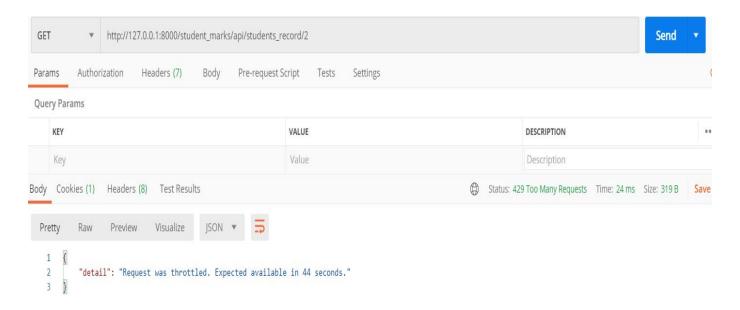
HTTP 200 OK
Allow: OPTIONS, GET
Content-Type: application/json
Vary: Accept

{
    "created": "2020-06-30T10:56:32.481145Z",
    "unique_id": 1,
    "data_structure": 50,
    "database": 60,
    "web_technology": 70,
    "cloud": 90,
    "data_science": 80
}
```

### **Request Limiting Mechanism**

```
REST_FRAMEWORK = {
    'DEFAULT_THROTTLE_CLASSES': [
        'rest_framework.throttling.AnonRateThrottle',
        'rest_framework.throttling.UserRateThrottle'
],
    'DEFAULT_THROTTLE_RATES': {
        'anon': '10/min',
        'user': '10/min'
}
```

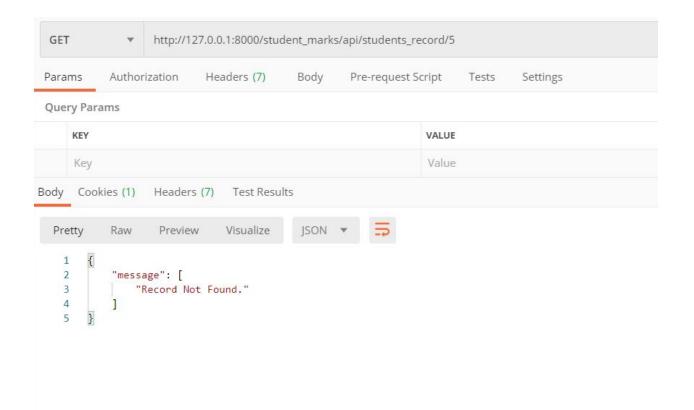
# Limitation of request is 10 per minute if it goes beyond that the response is like given below.



# The total requests to the service



### Case for record Not Found



# Student Record / Student Record By Prn Student Record By Prn GET /student\_marks/api/students\_record/5/ HTTP 200 OK Allow: OPTIONS, GET Content-Type: application/json Vary: Accept { "message": [ "Record Not Found." ] }