*To Run the project inside project directory run
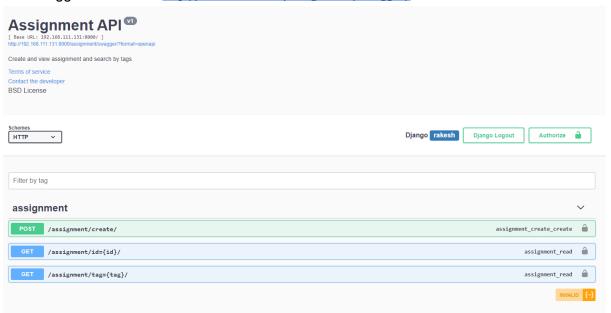
docker-compose up

Testing:

For Swagger dashboard http://127.0.0.1:8000/assignment/swagger/

**For api testing I used Postman and Swagger
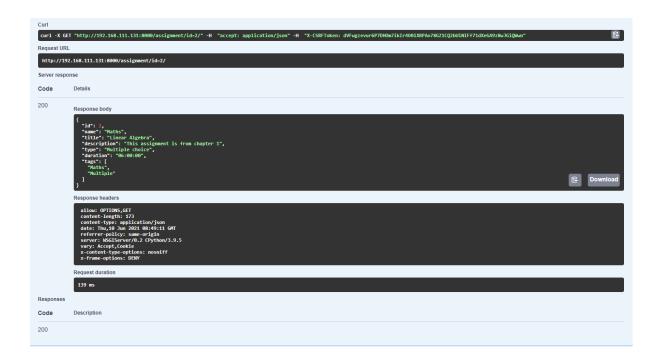I am adding those test screenshots here.**

1. **Create Assignment**
   a. **Post** http://127.0.0.1:8000/assignment/create/
      i.   **Input =**

      {
        "name": "Social",
        "title": "Panipat",
        "description": "This assignment is from chapter 1 and 10",
        "type": "Multiple choice",
        "duration": "02:00:00",
        "tags": ["Social", "Multiple"]
      }

      ii.   **Output**
         1. **Success =** {'message': 'success' }
         2. **Bad Request** = {"error": "There was a problem in request data"},
                      status=status.HTTP_400_BAD_REQUEST

POST ∨ http://192.168.111.131:8000/assignment/create/

Params Authorization Headers (8) Body ● Pre-request Script Tests Settings

○ none ○ form-data ○ x-www-form-urlencoded ● raw ○ binary ○ GraphQL JSON ∨

1 {"name":"chemistry","title":"Panipat","description":"This assignment is from chapter 1 and 10","type":"Multiple choice","duration":"02:00:00","tags":["chemistry","Multiple"]}

Body Cookies Headers (9) Test Results   Status: 200 OK Time: 58 ms Size: 297 B Save Response ∨

Pretty Raw Preview Visualize

{"message":"success"}

2.   Get Assignment by id

    a.   GET http://127.0.0.1:8000/assignment/id={id}/

        i.   Input = {id}

            1.   Example = Id = {2}

        ii.   Output

            1.   Success = { "id": 2, "name": "Maths", "title": "Linear Algebra", "description": "This assignment is from chapter 1", "type": "Multiple choice", "duration": "06:00:00", "tags": ["Maths", "Multiple"]}

            2.   Not Found = ({"error": "Data Not found"}, status=status.HTTP_404_NOT_FOUND)

Curl

```
curl -X GET "http://192.168.111.131:8000/assignment/id=2/" -H  "accept: application/json" -H  "X-CSRFToken: dVFwgzevur6P7DHOm7ikIr4O01XRPAo78GZ1CQ2bUiNIFF71dXeGA9z8wJGiQWwn"
```

Request URL

```
http://192.168.111.131:8000/assignment/id=2/
```

Server response

Code	Details
200	Response body

```
{
  "id": 2,
  "name": "Maths",
  "title": "Linear Algebra",
  "description": "This assignment is from chapter 1",
  "type": "Multiple choice",
  "duration": "06:00:00",
  "tags": [
    "Maths",
    "Multiple"
  ]
}
```

Response headers

```
allow: OPTIONS,GET
content-length: 173
content-type: application/json
date: Thu,10 Jun 2021 08:49:11 GMT
referrer-policy: same-origin
server: WSGIServer/0.2 CPython/3.9.5
vary: Accept,Cookie
x-content-type-options: nosniff
x-frame-options: DENY
```

Request duration

```
139 ms
```

Responses

Code	Description
200	

3. Get Assignments by tag

a. GET http://127.0.0.1:8000/assignment/tag={tag}/

    i.   Input = {tag}

        1.   Example = tag = {Maths}

    ii.   Output

        1.   Success = [{ "id": 2, "name": "Maths", "title": "Linear Algebra", "description": "This assignment is from chapter 1", "type": "Multiple choice", "duration": "06:00:00", "tags": ["Maths", "Multiple"] }, { "id": 3, "name": "Maths", "title": "Algebra", "description": "This assignment is from chapter 1 and 3", "type": "Multiple choice", "duration": "06:00:00", "tags": ["Maths", "Multiple"] }]

        2.   Not Found = ({"error": "Data Not found"}, status=status.HTTP_404_NOT_FOUND)

Database Schema:

Here I used Postgress DB for the assignment

Database schema diagram: https://drawsql.app/rakesh/diagrams/assignment