

UPSKILL BACKEND DEVELOPER INTERVIEW QUESTIONS ANSWERS:

Name: Md Kamrul Hasan

Phone: 01758290421

Email: mdkamrulhasanewu@gmail.com

GitHub Link: <https://github.com/07kamrul/Movie-Rating-API>

I Choice python Django rest framework and MYSQL database for this task. Step by step I setup this instructions:

1. Step: 01

```
(venv) F:\Python\Projects\UPSKILL>pip install Django
Collecting Django
  Using cached https://files.pythonhosted.org/packages/01/a5/fb3dad18422fcd4241d18460a1fe17542bfdeadcf74e3861d1a2dfc9e459/Django-3.1.1-py3-none-any.whl
Collecting pytz (from Django)
  Using cached https://files.pythonhosted.org/packages/4f/a4/879454d49688e2fad93e59d7d4efda580b783c745fd2ec2a3adf87b0808d/pytz-2020.1-py2.py3-none-any.whl
Collecting asgiref~=3.2.10 (from Django)
  Using cached https://files.pythonhosted.org/packages/d5/eb/64725b25f991010307fd18a9e0c1f0e6dff2f03622fc4bcbcd2244f60d6/asgiref-3.2.10-py3-none-any.whl
Collecting sqlparse>=0.2.2 (from Django)
```

2. Step: 02

```
(venv) F:\Python\Projects\UPSKILL>pip install djangorestframework
Collecting djangorestframework
  Using cached https://files.pythonhosted.org/packages/a2/cc/a8738854bda156f8145b9185488c1dae79ce17df5b563c42ee7dd0c6245a/djangorestframework-3.11.1-py3-none-any.whl
Requirement already satisfied: django>=1.11 in f:\python\projects\upskill\venv\lib\site-packages (from djangorestframework) (3.1.1)
Requirement already satisfied: asgiref~=3.2.10 in f:\python\projects\upskill\venv\lib\site-packages (from django>=1.11->djangorestframework) (3.2.10)
Requirement already satisfied: sqlparse>=0.2.2 in f:\python\projects\upskill\venv\lib\site-packages (from django>=1.11->djangorestframework) (0.3.1)
Requirement already satisfied: pytz in f:\python\projects\upskill\venv\lib\site-pa
```

3. Step:03 Now set the database on settings.py file

```
DATABASES = {  
    'default': {  
        'ENGINE': 'django.db.backends.mysql',  
        'NAME': 'movie_rating',  
        'USER': 'root',  
        'PASSWORD': 'root',  
        'HOST': 'localhost',  
        'PORT': '3306',  
    }  
}
```

4. Step: 04 Install mysqlclient for MYSQL database on terminal.

pip install mysqlclient

5. Step: 05 then migrations then migrate then runserver on the terminal.

Those command are:

py manage.py makemigrations

py manage.py migrate

py manage.py runserver

6. Step: 06

- View all users: <http://127.0.0.1:8000/users/>
- User can add view a list of all movies: <http://127.0.0.1:8000/movies/>
- User can rate a movie and View all ratings:
<http://127.0.0.1:8000/ratings/>
- User search up a specific movie and see it's details along with the average rating of a movie: <http://127.0.0.1:8000/search/1>

7. Step: 07

The output here:

```
GET http://127.0.0.1:8000/users/ Params Send

Pretty Raw Preview JSON


[
  {
    "id": 1,
    "name": "John Doe",
    "phone": "1111111111",
    "password": "pass1",
    "email": "john_doe@gmail.com"
  },
  {
    "id": 2,
    "name": "Jane Doe",
    "phone": "2222222222",
    "password": "pass2",
    "email": "jane_doe@gmail.com"
  },
  {
    "id": 3,
    "name": "Mark Doe",
    "phone": "3333333333",
    "password": "pass3",
    "email": "mark_doe@gmail.com"
  },
  {
    "id": 4,
    "name": "Macy Doe",
    "phone": "4444444444",
    "password": "pass4",
    "email": "macy_doe@gmail.com"
  }
]
```

```
GET http://127.0.0.1:8000/movies/ Params Send

Pretty Raw Preview JSON


[
  {
    "id": 1,
    "name": "Home Alone",
    "genre": "Comedy",
    "movie_rating": "PG",
    "release_date": "1996-01-04"
  },
  {
    "id": 2,
    "name": "The Godfather",
    "genre": "Crime",
    "movie_rating": "R",
    "release_date": "1972-01-04"
  },
  {
    "id": 3,
    "name": "Avengers: Endgame",
    "genre": "Action",
    "movie_rating": "PG",
    "release_date": "2019-01-04"
  }
]
```

GET ▼ http://127.0.0.1:8000/ratings/ Params Send ▼

Pretty Raw Preview JSON ▼ 

```
1 [
2   {
3     "id": 1,
4     "user_id": 1,
5     "movie_id": 1,
6     "rating": "5.0"
7   },
8   {
9     "id": 2,
10    "user_id": 1,
11    "movie_id": 2,
12    "rating": "4.0"
13  },
14  {
15    "id": 3,
16    "user_id": 1,
17    "movie_id": 3,
18    "rating": "3.3"
19  },
20  {
21    "id": 4,
22    "user_id": 2,
23    "movie_id": 1,
24    "rating": "5.0"
25  },
26  {
27    "id": 5,
28    "user_id": 2,
29    "movie_id": 3,
30    "rating": "4.5"
31  },
32  {
```

GET ▼ http://127.0.0.1:8000/search/1 Params Send ▼

Pretty Raw Preview JSON ▼ 

```
1 {
2   "id": 1,
3   "name": "Home Alone",
4   "genre": "Comedy",
5   "movie_rating": "PG",
6   "release_date": "1996-01-04",
7   "avg_ratings": "3.87"
8 }
```

GET

http://127.0.0.1:8000/search/2

Params

Send

Pretty

Raw

Preview

JSON

1

{

2

"id": 2,

3

"name": "The Godfather",

4

"genre": "Crime",

5

"movie_rating": "R",

6

"release_date": "1972-01-04",

7

"avg_ratings": "2.83"

8

}

GET

http://127.0.0.1:8000/search/3

Params

Send

Pretty

Raw

Preview

JSON

1

{

2

"id": 3,

3

"name": "Avengers: Endgame",

4

"genre": "Action",

5

"movie_rating": "PG",

6

"release_date": "2019-01-04",

7

"avg_ratings": "3.73"

8

}

*****The End*****