

VTS PYTHON DEVELOPER INTERVIEW QUESTIONS

Instructions:

1. You may use **any language** of your choice(although Python is preferred).If you feel the need, you can connect this to any database for your convenience. It is highly encouraged that you **do not** use a local database.
2. 3 example jsons are provided below to be used as sample data. This database must be initialized with this data The names of the fields must match those of the sample data.
3. It is important that the code be readable and understandable.
4. **Include a readme file** with
 - a. Mention of the language and the database (if any) used
 - b. Any setup instructions.
 - c. Any assumptions you have made
 - d. How much of the problem you were able to solve
 - e. Problems faced with incomplete parts (if any)
5. You must also include a copy of your CV with the solution.

For further queries about the assignment, please email mahidulmoon@gmail.com

Submissions after the deadline mentioned in the email will not be accepted.

Question is on page 2.

Question:

Make a movie rating system where:

1. User can login
2. User can add a movie
3. User can view a list of all movies
4. User can rate a movie
5. User search up a specific movie and see it's details along with the average rating of a movie

You must use routers and return json responses with proper error handling.

Example data:

- **User 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"
  }
]
```

- **Movie json:**

```
[
  {
```

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

- **Ratings json:**

```
[
  {
    "id":1,
    "user_id":1,
    "movie_id":1,
    "rating": 5.0
  },
  {
    "id":2,
    "user_id":1,
    "movie_id":2,
    "rating": 4.0
  },
  {
    "id":3,
    "user_id":1,
    "movie_id":3,
    "rating": 3.3
  },
  {
    "id":4,
    "user_id":2,
    "movie_id":1,
    "rating": 5.0
  },
  {
    "id":5,
    "user_id":2,
    "movie_id":3,

```

```
    "rating": 4.5
  },
  {
    "id": 6,
    "user_id": 3,
    "movie_id": 1,
    "rating": 1.6
  },
  {
    "id": 7,
    "user_id": 3,
    "movie_id": 2,
    "rating": 0.0
  },
  {
    "id": 8,
    "user_id": 3,
    "movie_id": 3,
    "rating": 3.4
  },
  {
    "id": 9,
    "user_id": 4,
    "movie_id": 2,
    "rating": 4.5
  }
]
```

-----END OF QUESTION-----