

Django Assignment: Customizing Artist API

You are tasked with building a customized Artist API using Django REST Framework. The API should allow users to perform CRUD operations.

Requirements:

1. Implement token-based authentication using Django REST Framework's built-in authentication classes. Only authenticated users should be able to perform CRUD operations.
2. Users should be able to register an account, login, and retrieve their authentication token.

- **Each artist object should have the following fields:**

- 1) Artist Table

- Name
 - User Instance (Foreign Key)
 - Work (ManyToManyField)

- 2) Work Table

- Link
 - Work Type
 - Youtube
 - Instagram
 - Other

- ❖ Important

- After each 'Registration' for a new user
 - Make sure a new Artist object is created using signals

- **Rest API**

- Integrate API endpoints for the following operations:
 - Retrieving a list of all works
 - Create a new work
 - Integrate Filtering with Work Type
 - Integrate Search with Artist name

Endpoints expected:

[/api/works/](#)

[/api/works?work_type=YT/](#) or [/api/works?work_type=IG/](#)

[/api/works?artist=\[Artist Name\]/](#)

[/api/register/](#)

Submission:

Candidates should provide a link to a public Git repository containing the Django project code. The repository should include the necessary instructions


for setting up and running the project explaining your API endpoints specially how to register users, login, and get authentication tokens and then use them in following api endpoints using proper headers format.

Make sure to put some dummy data and keep the admin-admin django login accessible for testing.

Proper Documentation and clarity of instructions is a plus point.

Machine Learning Basic Assignment

We are looking for someone who is enthusiast in machine learning also. You don't have to be expert in it. If you managed to explore and do the below task, your evaluation will be pushed one step further.

- Use this sample image  IELTS-template.jpg and extract information from it such as text/facial expression/objects.

Feel free to use:

- APIs: *Google Cloud Vision API*, or
- Any Libraries: *OpenCV*, or anything you prefer

What need to be submitted for ML:

- Share a video link that explains how your code works and what output is extracted from the sample.