

## Python Django Assignment

**Duration:** 2 Days

### Key Notes:

1. Complete the given task within the specified duration. We only require the backend part of the code to assess your skills (without views would suffice). Adding simple views would be a plus point.
2. Send us the link to the Git repository of the code, a brief documentation of the project including how to set up the code locally, your name, and phone number at email: [assignments@ttofl.com](mailto:assignments@ttofl.com)
3. Ensure that you follow the best ethics and an efficient approach for the problem. We will be running your code locally to test all the APIs and functionalities.

### TASK:

You will have to create a backend for a library where there will be one admin who can create different genres of books like, fiction, documentary etc. An Author can sign up by adding his name, phone, email, City profile image. An ID will be generated automatically when he signs up. The ID should be made using City and code like "ARDEL 0001", where AR is mandatory field and DEL is the first 3 letters of his city(Delhi), 0001 is his number of registration generated in incremental order based on City. Example: first user from delhi signs up, his ID will be ARDEL0001 second author signs up from delhi his ID would be ARDEL 0002, for third it would be ARDEL 0003, but if 4th author is from different city say Mumbai, then his code won't be ARMUM 0004, but ARMUM 0001 will be as unique incremental values are city specific. A registered author can add multiple books that belong to him by adding this information: Book name, Genre (only from registered genre by admin), number of pages, book cover image. Books must be related to the author through Foreign key(Use others method if you have something better than this). Admin can get data of all the Authors and of any specific Author too.

**Your Task:**

1. Create models as required for this task.
2. Create a common login API for Authors and admin. And Signup for author.
3. Create APIs for admin: adding genre, Getting all details of all Authors(including there books), for details of a specific author. Get Books of a specific author. Delete Genre.
4. For author: Add book, edit book.
5. Introduce an API endpoint that allows an admin to export all the book data for a specific genre in a structured format (e.g., CSV or JSON). This should include details such as Book name, Author name, Number of pages, and any other relevant information. Ensure that the export functionality is efficient and handles large datasets gracefully.

Follow all the **best practices** like middlewares, serializers, authentication of the users through tokens and others. Having a proper MVC architecture.

Please note creating UI for this is not mandatory.

Good Luck!