# Django Task 2:

Develop a Diango web application with models for authors and books. Follow the steps outlined below:

## 1. Setting up the Virtual Environment:

• Create a virtual environment for your Django project to maintain a clean and isolated development environment.

#### 2. Django File Structure:

 Organize your Django project with a structured file system, including apps, settings, URLs, and templates.

## 3. Create Author and Book Models:

- Define models for authors and books in the myapp/models.py file.
  - Author model should include fields: name (CharField) and bio (TextField).
  - Book model should include fields: title (CharField), author (ForeignKey to Author with on\_delete=models.CASCADE), and published\_date (DateField).
- Run migrations to apply the models to the database.

## 4. Context and Templating Engine:

- Create a view function in myapp/views.py that retrieves all authors and books from the database.
- Use Django's templating engine to generate an HTML template
  (myapp/templates/myapp/home.html) that displays a list of authors and their
  associated books.
- Utilize template inheritance to structure the HTML content.

#### 5. Function-Based Views and URL Configuration:

- Construct a function-based view in **myapp/views.py** to handle HTTP requests and render the template.
- Configure URL patterns in myapp/urls.py to map the view to the home page URL.

## 6. **Django Shortcut: render() Function:**

• Implement Django's **render()** function as a shortcut to efficiently render templates with context data in views.