DJANGO CODE CHALLENGE

The Django project is a web application framework that facilitates rapid development of dynamic websites. It follows the MVC (Model-View-Controller) architecture pattern, allowing developers to define models for data representation

* Project Setup: Initialize Django project and app using startproject and startapp commands, respectively.
* Model Definition: Create Book model in models.py with fields representing book attributes.
* Serializer Creation: Develop BookSerializer in serializers.py to convert model instances to JSON.
* View Implementation: Design views in views.py to handle API requests and process filtering logic.
* URL Routing: Define URL patterns in urls.py to map views to specific API endpoints.
* Settings Adjustment: Configure settings in settings.py, including installed apps, middleware, and database settings.
* Data Population: Integrate with Project Gutenberg API to fetch book data and populate the database.
* Query Handling: Implement logic to filter books based on query parameters such as language, author, and title.
* Pagination Setup: Enable pagination in views to limit the number of books returned per request.
* Testing and Debugging: Write tests to ensure API endpoints function correctly and debug any issues encountered.