

Django REST API Assessment - Book Management

Objective:

The objective of this assessment is to evaluate your skills in developing a Django REST API for managing books, users, and reading lists.

Requirements:

1. User Management:
 - Users should be able to register, log in, and manage their profiles.
 - Each user should have a unique username and email address.
2. Book Management:
 - Users should be able to create, remove, and upload books.
 - All users should be able to access all the books.
 - Each book should have a title, author(s), genre, publication date, and an optional description.
3. Reading Lists:
 - Users should be able to create and manage reading lists.
 - Reading lists should allow users to organise their books in their preferred order.
4. Interactions:
 - Users should be able to add books to their reading lists and remove them.
5. Error Handling:
 - Handle potential errors gracefully and provide informative error responses to users.

Instructions:

- You are required to develop a Django REST API that fulfils the specified requirements.
- The API endpoints should be designed following RESTful principles.
- Implement appropriate authentication and authorization mechanisms for user management and access to resources.
- Ensure proper validation and error handling throughout the API.
- Write clear and concise documentation for your API endpoints, including usage examples.

Submission Guidelines:

- Submit your Django project in a compressed file format (e.g., .zip).
- Include a README file detailing how to set up and run your project locally.

- Document the API endpoints and their functionalities in the README.