



أكاديمية طويق
TUWAIQ ACADEMY

Building a REST API
using Python and Django

FINAL PROJECT

Book Review API

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Introduction



The Book Review API project is an application programming interface (API) that allows users to create accounts, submit book reviews, and read reviews posted by other users.

The goal of the project is to provide a secure and flexible platform that enables book enthusiasts to share their thoughts on books and reading experiences easily, using technologies like Django REST Framework and JWT to ensure data security and efficiency in management.

The screenshot displays a code editor interface for a Django REST Framework project named 'book_review_api'. The left sidebar shows the project structure, including folders like 'migrations', 'api', and 'bookapi', and files like 'urls.py', 'views.py', 'models.py', 'serializers.py', 'tests.py', 'admin.py', 'apps.py', 'manage.py', 'db.sqlite3', and 'External Libraries'. The main editor window shows the 'urls.py' file with the following code:

```
1 from django.urls import path
2 from .views import RegisterView, BookListView
3
4 urlpatterns = [
5     path(route: 'register/', RegisterView.as_view(), name='register'),
6     path(route: 'books/', BookListView.as_view(), name='book_list'),
7 ]
8
```

The bottom terminal window shows the following output:

```
[30/Apr/2025 12:03:06] "GET /static/rest_framework/js/ajax-form.js HTTP/1.1" 304 0
[30/Apr/2025 12:03:06] "GET /static/rest_framework/js/bootstrap.min.js HTTP/1.1" 304 0
[30/Apr/2025 12:03:06] "GET /static/rest_framework/js/load-ajax-form.js HTTP/1.1" 304 0
[30/Apr/2025 12:03:06] "GET /static/rest_framework/js/prettify-min.js HTTP/1.1" 304 0
[30/Apr/2025 12:03:06] "GET /static/rest_framework/js/default.js HTTP/1.1" 304 0
[30/Apr/2025 12:03:06] "GET /static/rest_framework/img/grid.png HTTP/1.1" 304 0
[30/Apr/2025 12:03:48] "GET /api/books HTTP/1.1" 301 0
[30/Apr/2025 12:03:48] "GET /api/books/ HTTP/1.1" 200 448
(.venv) mac@MacBookPro book_review_api %
```

by using postman

Tasks

testing

Django REST framework

Register

Register

OPTIONS

GET /api/register/

HTTP 405 Method Not Allowed
Allow: POST, OPTIONS
Content-Type: application/json
Vary: Accept

```
{
  "detail": "Method \"GET\" not allowed."
}
```

Raw data

HTML form

Username

Required. 150 characters or fewer. Letters, digits and @/./+/-/_ only.

Password

Email address

Django REST framework

Book List

OPTIONS

GET

GET /api/books/

HTTP 200 OK
Allow: GET, HEAD, OPTIONS
Content-Type: application/json
Vary: Accept

```
{
  {
    "id": 1,
    "title": "The Great Gatsby",
    "author": "F. Scott Fitzgerald",
    "published_date": "1925-04-10"
  },
  {
    "id": 2,
    "title": "1984",
    "author": "George Orwell",
    "published_date": "1949-06-08"
  },
  {
    "id": 3,
    "title": "To Kill a Mockingbird",
    "author": "Harper Lee",
    "published_date": "1960-07-11"
  },
  {
    "id": 4,
    "title": "Moby-Dick",
    "author": "Herman Melville",
    "published_date": "1851-10-18"
  },
  {
    "id": 5,
    "title": "Pride and Prejudice",
    "author": "Jane Austen",
    "published_date": "1813-01-28"
  }
}
```