

Backend (Django + DRF)

1. Project setup

- Created Django project cineflow with apps core and api.
- Configured DRF + JWT (djangorestframework-simplejwt) for authentication.
- Verified Django server is running with test views (home, ping).

2. Authentication

- Implemented JWT authentication with /api/token/ and /api/token/refresh/.
- Added secure test endpoint /api/secure/ (requires login).
- Confirmed login works with superuser and returns access + refresh tokens.

3. Registration

- Built RegisterSerializer and /api/register/ endpoint.
- Supports new user creation with username, email, and password.
- Automatically hashes password with User.objects.create_user.

Frontend (React + Vite + Bootstrap)

1. Project setup

- Bootstrapped React app with Vite.
- Configured Vite proxy so /api/* routes forward to Django.

2. Auth Integration

Created Login page:

- Submits credentials to /api/token/.
- Saves access + refresh tokens in localStorage.
- Redirects user to /dashboard.
- Created Register page:
- Posts user details to /api/register/.
- On success, auto-logs user in (fetches tokens + stores them).

Built Dashboard page:

- Calls /api/secure/ using Axios.
- Confirms authentication by showing logged-in username.

3. Axios API Client

Implements token refresh interceptor:

- If access token expires, requests a new one with refresh token.
- Retries original request automatically.
- Logs out if refresh fails.

4. Protected Routes

- Added PrivateRoute wrapper.
- /dashboard is now only accessible if logged in.
- Logged-out users get redirected to /login.