

Detailed Week-Based Full-Stack Project Plan

Project Explanation (2 Sentences)

This project is a Placement & Internship Portal where students apply for jobs, companies post openings and manage applicants, and admins control the platform. You will build both the frontend and backend yourself, and the APIs are created by you using Django REST Framework.

Important Clarification: What Are APIs Here?

You do NOT need pre-existing APIs. When you build the backend using Django REST Framework, you yourself create APIs such as login, job listing, and apply endpoints, and the React frontend simply talks to these APIs.

Tech Stack

- 1 Frontend: React (HTML, CSS, JavaScript inside React)
- 2 Backend: Django + Django REST Framework
- 3 Database: SQLite (initially)

Week 1: Backend Foundation (No Frontend Yet)

- 1 Install Python, Django, Django REST Framework
- 2 Create Django project and app
- 3 Understand project structure (settings, urls, apps)
- 4 Create User model extension (Student / Company roles)
- 5 Create models: StudentProfile, CompanyProfile, Job, Application
- 6 Run migrations and inspect database
- 7 Create superuser and explore Django admin

Week 2: Backend APIs (You Create the APIs Here)

- 1 Learn what serializers are and why they are needed
- 2 Create serializers for all models
- 3 Create REST APIs: signup, login, job list, apply job
- 4 Learn GET, POST, PUT, DELETE clearly
- 5 Test all APIs using Postman
- 6 Understand request-response flow

Week 3: React Setup + Authentication

- 1 Create React project
- 2 Understand folder structure
- 3 Create Login and Signup pages
- 4 Connect React to Django APIs using fetch or axios
- 5 Store authentication token
- 6 Protect routes based on user role

Week 4: Student Features

- 1 Create student dashboard
- 2 Display jobs from backend API
- 3 Apply to job using API
- 4 Show applied jobs list
- 5 Handle loading and error states

Week 5: Company Features

- 1 Create company dashboard
- 2 Create job posting form
- 3 View list of applicants
- 4 Shortlist or reject applicants
- 5 Update application status via API

Week 6: Admin + Polishing

- 1 Admin approval of companies
- 2 Delete fake job posts
- 3 Basic analytics (counts only)
- 4 Improve UI and validation
- 5 Prepare resume description

Final Outcome

By the end of this project, you will clearly understand how frontend, backend, database, and APIs work together. This single project is strong enough to be explained confidently in interviews and placed on your resume.