

Final Year Project: Rural Freelance Hub

1. Project Overview

Summary of Conversation:

- User: Final-year computer science student, beginner in Java.
- Goal: Build a resume-boosting web development project.
- Duration: 1 month, 2 team members.
- Skills: Java (basic), willing to learn React/Spring Boot.
- Project Chosen: Rural Freelance Hub (connects rural freelancers to clients)
- Stack Finalized: React (frontend) + Spring Boot (backend) + MySQL

Decision Points:

- Chose React over Thymeleaf for frontend
- Wanted to learn by building from scratch
- Preferred roadmap and guidance instead of just ready code

Final Year Project: Rural Freelance Hub

2. Frontend Setup (React)

React Frontend Project: Rural Freelance Hub

Features:

- User Roles: Client / Freelancer
- Functionalities:
 - Client: Post jobs
 - Freelancer: Browse jobs, apply
 - Both: Login / Register

Stack:

- React (Vite or CRA)
- Axios (for API)
- TailwindCSS (UI styling)
- React Router (navigation)

Final Year Project: Rural Freelance Hub

3. Backend Setup (Spring Boot)

Spring Boot Backend Roadmap for Final Year Project

Project: RuralFreelanceHub Backend

Stack: Java + Spring Boot + MySQL

PHASE 1: Setup Spring Boot Project

- Use <https://start.spring.io>
- Dependencies: Web, JPA, Security, Lombok, MySQL Driver

PHASE 2: Create Entity Classes

- User.java: id, name, email, password, role
- Job.java: id, title, description, budget, postedBy

PHASE 3: Create Repositories

- UserRepository.java
- JobRepository.java

PHASE 4: Create Controllers and Services

- AuthController.java: signup, login
- JobController.java: postJob, getJobs

PHASE 5: (Optional) JWT Auth Security

Test with Postman:

- /api/auth/signup
- /api/auth/login
- /api/jobs/post
- /api/jobs/all