Requirement Analysis Phase

✅ 1. Project Overview

Freelancer Finder is a full-stack web application that allows clients to post freelance jobs and freelancers to discover and apply for those jobs. It supports real-time communication, user authentication, and efficient job management.

👥 2. Target Users

User Role	Description
Client	A user or company posting freelance projects and hiring talent
Freelancer	A user applying for freelance jobs based on their skills

🎯 3. Goals & Objectives

- Connect clients and freelancers on a single platform
- Allow real-time chat between users
- Let clients post job listings
- Let freelancers view, filter, and apply for jobs
- Enable simple, clean, and responsive UI
- Ensure secure authentication and data handling

⚙ 4. Functional Requirements

Module	Requirements
Authentication	Sign Up / Login for Clients & Freelancers
Dashboard	Separate dashboards for clients and freelancers
Job Posting	Clients can create, update, and delete job posts
Job Browsing	Freelancers can view and filter available jobs
Real-Time Chat	Socket-based communication between users
Profile Management	Each user can update their profile and bio
Notifications	Real-time updates on new messages or job activity

🚫 5. Non-Functional Requirements

Category	Requirement
Performance	Fast loading time, optimized API calls
Scalability	Ready to scale to support more users
Security	Data validation, JWT tokens for authentication
Maintainability	Code organized into frontend/backend modules
Usability	Intuitive UI for both tech and non-tech users

6. Tech Stack

Layer	Technology
Frontend	React, HTML, CSS, JavaScript
Backend	Node.js, Express.js
Database	MongoDB (via Mongoose)
Real-Time	Socket.io
Hosting (optional)	GitHub Pages (client), Render/Heroku (server)
Dev Tools	VS Code, Git, Postman, npm

📝 7. Future Enhancements

- Add payment gateway (Razorpay, Stripe)
- Rating system for freelancers and clients
- Email notifications
- Admin panel for platform moderation
- AI job-matching algorithm