# **Frontend & Fullstack/Backend Developer Assignment**

## **Overview**

Your task is to build a **Job Board Platform** where companies can post job listings and candidates can apply for jobs. This project is designed to evaluate your expertise in **Next.js, Node.js, and Tailwind CSS**.

The scope of your work depends on the role you are applying for:

* **Frontend Developer**: Focus on UI development and API integration.
* **Backend Developer**: Build a robust API and database layer.
* **Fullstack Developer**: Implement both frontend and backend functionality.

## **Tech Stack**

* **Frontend**: Next.js, Tailwind CSS
* **Backend**: Node.js (Express/NestJS), MongoDB/PostgreSQL
* **Authentication**: JWT or NextAuth
* **Deployment**: Vercel (Frontend) & Render/Fly.io (Backend)

## **Requirements**

### **General (For All Roles)**

✔ Implement authentication using **JWT or NextAuth**.  
 ✔ Use **MongoDB or PostgreSQL** to store job listings and applications.  
 ✔ Deploy the project and provide a live link.  
 ✔ Follow **clean code** practices and maintain **meaningful Git commits**.

### **Frontend Developer Tasks (4 Hours)**

If you are applying for a frontend role, focus on UI and API consumption:  
 ✅ Build a **homepage** displaying job listings.  
 ✅ Create a **job details** page.  
 ✅ Develop a **company dashboard** (using mock data) for posting jobs.  
 ✅ Use **React Hook Form or Zod** for form validation.  
 ✅ Implement **dark mode** using Tailwind.  
 ✅ Manage state with **Zustand or Redux**.

### **Backend Developer Tasks (4 Hours)**

If you are applying for a backend role, focus on API and database development:  
 ✅ Implement authentication (**JWT or NextAuth**).  
 ✅ Develop a **REST API or GraphQL** to handle:

* Job postings
* Fetching job listings
* Applying for jobs  
   ✅ Implement **WebSockets** for real-time job updates.  
   ✅ Add **rate limiting** for API security.

### **Fullstack Developer Tasks (8 Hours)**

If you are applying for a fullstack role, complete both frontend and backend tasks:  
 ✅ Implement **role-based access control** (Admin, Company, Job Seeker).  
 ✅ Enable **file uploads** for resumes.  
 ✅ Build a **minimal dashboard** for companies to manage job postings.  
 ✅ Optimize database queries using **Prisma or Sequelize**.

## **Bonus Features (For All Candidates)**

⭐ Implement **unit & integration tests** using Jest, Cypress, or Vitest.  
 ⭐ Use **SSR & SSG** for optimized rendering.  
 ⭐ Add **AI-powered job recommendations** using the OpenAI API.

## **Submission Guidelines**

Even if your project is incomplete, submit whatever you have within the deadline. We prioritize **your approach** over full completion.

### **What to Submit?**

📌 **GitHub repo link** (even if work is unfinished).  
 📌 A **brief README** explaining:

* What’s working?
* What’s missing?
* How would you complete it with more time?  
   📌 **(Optional)** Deployed link, if available.

## **Evaluation Criteria**

✅ **Code Quality & Structure** (clean code, meaningful commits).  
 ✅ **UI/UX & Responsiveness** (for frontend/fullstack roles).  
 ✅ **API Design & Security** (for backend/fullstack roles).  
 ✅ **Performance Optimization**.  
 ✅ **Bonus Features Implemented**.

🚀 **Give it your best shot, but don’t stress—just submit what you have!**