

Full-Stack Internship Task Assignment

Position: Full-Stack Developer Intern

Duration: 5 days

1. Overview

Build a minimal viable B2B tender-management platform where companies can:

- Register & manage their profile (including logo/images)
- Create & publish tenders
- Browse & apply to tenders
- Search for other companies by name, industry or their products/services
- Checkout complete details of other companies

2. Functional Requirements

1. Authentication & Authorization

- Sign-up / Sign-in (email + password)
- JWT-based auth for API access

2. Company Profile

- CRUD endpoints for company metadata (name, industry, description)
- Upload logo/images to Supabase Storage
- Retrieve image URLs

3. Tender Management

- CRUD endpoints for tenders (title, description, deadline, budget)
- List all tenders (paginated)
- Company-specific tender list

4. Application Workflow

- Endpoint for companies to submit proposals against tenders
- Retrieve all applications per tender

5. Search

- Server-side search API for companies by name, industry or by their products/services

3. Technical Stack

Frontend: Next.js (TypeScript)

- Pages/SSR or SSG for company dashboard, tender listings, search
- Client-side form validation

Backend: Express.js (JavaScript/TypeScript)

- Modular routing (company, tender, application, auth)
- Input validation (Joi or Zod)
- Secure error handling & status codes

Database: PostgreSQL

- Tables: users, companies, tenders, applications, goods and services, and other related
- Use migrations (e.g. Knex or Sequelize CLI)

Storage: Supabase Storage

- Bucket for company images

DevOps (optional but will have a better advantage)

- Dockerize frontend & backend
- Provide a docker-compose.yml

4. Deliverables

1. GitHub Repository

- Separate frontend/ and backend/ folders
- Clear README with setup & run instructions

2. Database Schema

- ER diagram or SQL migration files

3. Architecture Overview

- One-page Markdown explaining API design, authentication flow, and storage integration

4. Deployed demo link (e.g. Vercel for frontend, Heroku for backend)

5. Submission Guidelines

- Share GitHub URL (public access)
- Include working website URL and a short 2-3 min loom video explaining your website and challenges you encountered and your approach to solve them
- Deadline: 5 days from assignment date