

Product Requirements Document (PRD)

Project: Job Board App

Objective:

Develop a simple job board platform to practice core full-stack development concepts such as authentication, authorization, CRUD operations, role-based access control, and ownership validation for managing job listings and applications.

Feature Breakdown

Feature 1: Authentication & Authorization (AuthN & AuthZ)

- **User Signup Controller:** Registers new users
- **User Login Controller:** Authenticates users and issues JWT tokens
- **User Logout Controller:** Logs out authenticated users
- **Change Password Controller:** Allows users to update their passwords
- **Forgot Password Controller:** Sends reset password links via email
- **User Role Management Controller:** Assigns and manages user roles
- **User Profile Management Controller:** Allows users to view and edit profile information

Feature 2: Job Listing Management

- **Create Job Listing Controller:** Employers can create job listings with details like title, description, salary, and location
- **Update Job Listing Controller:** Employers can update their own listings
- **Delete Job Listing Controller:** Employers can delete their own listings
- **Fetch All Job Listings Controller:** Fetch and display all available jobs
- **Fetch Single Job Listing Controller:** Fetch details of a single job listing

Feature 3: Job Application Management

- **Apply to Job Controller:** Job-seekers can apply to jobs with personal details and resume upload
- **Withdraw Application Controller:** Job-seekers can withdraw their applications
- **Fetch Applications for Employer Controller:** Employers can view applications for their own job listings
- **Fetch User's Applications Controller:** Job-seekers can view all jobs they have applied for

Feature 4: Job Search and Filtering

- **Search Jobs Controller:** Search job listings based on title, company, or location
- **Filter Jobs Controller:** Filter jobs by salary range, job type, and date posted
- **Sort Jobs Controller:** Sort jobs based on date posted or salary
- **List Featured Jobs Controller:** Retrieve highlighted/featured job listings

Additional Information:

- **Roles Involved:**
 - Admin
 - Employer
 - Job-Seeker
- **Auth Mechanism:** JWT-based authentication
- **Database & ORM:** MySQL with Prisma ORM
- **Frontend:** React.js with Tailwind CSS
- **Backend:** Node.js, Express.js