

# Job Seeker and Job Provider Dashboard Documentation

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## Abstract

This document provides a detailed overview of the **Job Seeker and Job Provider Dashboard** application, a comprehensive web-based platform designed to bridge the gap between job seekers and job providers. The application enables job seekers to efficiently manage their personal profiles, search for job opportunities, apply for jobs, and track the status of their applications. Job seekers can also view and edit their profiles, ensuring that their information is up-to-date and tailored to job requirements.

For job providers, the application offers the ability to create, manage, and post job openings. Providers can view and manage applications from job seekers, as well as review the qualifications and experience of applicants. Additionally, job providers can edit their company profiles (excluding email and company name), making it easier for job seekers to find and apply to relevant job postings.

The platform follows a **RESTful architecture** with a backend built using **Spring Boot** for seamless handling of user interactions, job postings, and applications. The system uses **MongoDB** for data storage, ensuring efficient management of job listings and user profiles. **Session-based authentication** is employed to maintain secure user sessions throughout the application, while unauthorized users are restricted from accessing protected routes. This ensures that job seekers and job providers have a seamless and secure experience when interacting with the application.

The purpose of this document is to provide a comprehensive understanding of the design, features, and architecture of the dashboard, highlighting the technologies used and explaining the various user roles and their respective functionalities within the system.

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# 1 Introduction

The **Job Seeker and Job Provider Dashboard** application is designed to facilitate the interaction between job seekers and job providers. The application allows job seekers to manage their profiles, apply for jobs, and track their applications. Job providers can post job openings, view applicants, and manage their company profiles. This application uses a **RESTful architecture** with a backend built using **Spring Boot** and a **MongoDB** database.

## 2 System Architecture

The system follows a **RESTful approach** and is divided into multiple modules:

- **Frontend:** Built with HTML, CSS, JavaScript, and Thymeleaf templates.
- **Backend:** Developed using **Spring Boot** to handle the REST APIs.
- **Database:** **MongoDB** is used for data storage.
- **Authentication:** The system employs **session-based authentication**.
- **Security:** Unauthorized users cannot access protected routes, and cache memory is cleared during logout to prevent unauthorized access.

## 3 Project Features

This project contains two main components: the **Job Seeker** interface and the **Job Provider** interface.

### 3.1 Job Seeker Features

- **Profile Management:** Job seekers can view and edit their profile information.
- **Job Search:** Search for jobs by title, location, and experience.
- **Apply for Jobs:** Job seekers can apply for jobs.
- **View Applied Jobs:** View the list of jobs the seeker has applied for.
- **About Page:** An informational page describing the functionality of the dashboard.

## 3.2 Job Provider Features

- **Post Jobs:** Job providers can create new job postings.
- **View Applicants:** Providers can view applicants for each job.
- **Profile Management:** Job providers can view and edit their company profile (excluding email and name).
- **About Page:** Describes the job provider's functionality within the dashboard.

## 4 Technologies Used

- **Frontend:** HTML, CSS, JavaScript (Vanilla JS), Thymeleaf
- **Backend:** Java (Spring Boot for REST APIs)
- **Database:** MongoDB (Local or Hosted Service such as MongoDB Atlas)
- **Authentication:** Session-based authentication
- **Version Control:** Git (GitHub for version control)

## 5 System Design

### 5.1 Controllers

The application uses three main controllers to handle the functionality:

- **Authentication Controller:** Handles login, signup, and session management for both job seekers and job providers.
- **Job Seeker Controller:** Manages job postings, applications, and job seeker profiles.
- **Job Provider Controller:** Handles job posting creation, viewing applicants, and job provider profile management.

### 5.2 Security and Authentication

Authentication is done using session-based credentials. The user logs in through the authentication controller, and their credentials are stored in the session for seamless navigation throughout the application. Unauthorized users are prevented from accessing secured pages.

## 5.3 Data Flow

- **Job Seekers:** Job seekers can search for jobs, apply for jobs, and view their application status.
- **Job Providers:** Job providers can post jobs, manage applicants, and edit their company profiles (except email and company name).
- **Session Management:** User sessions are validated for every API call, ensuring authenticated access to protected routes.

## 6 UI Screenshots

Below are the screenshots of various pages and sections in the application. These images illustrate the UI of the Job Seeker and Job Provider dashboard.

### 6.1 Login Page

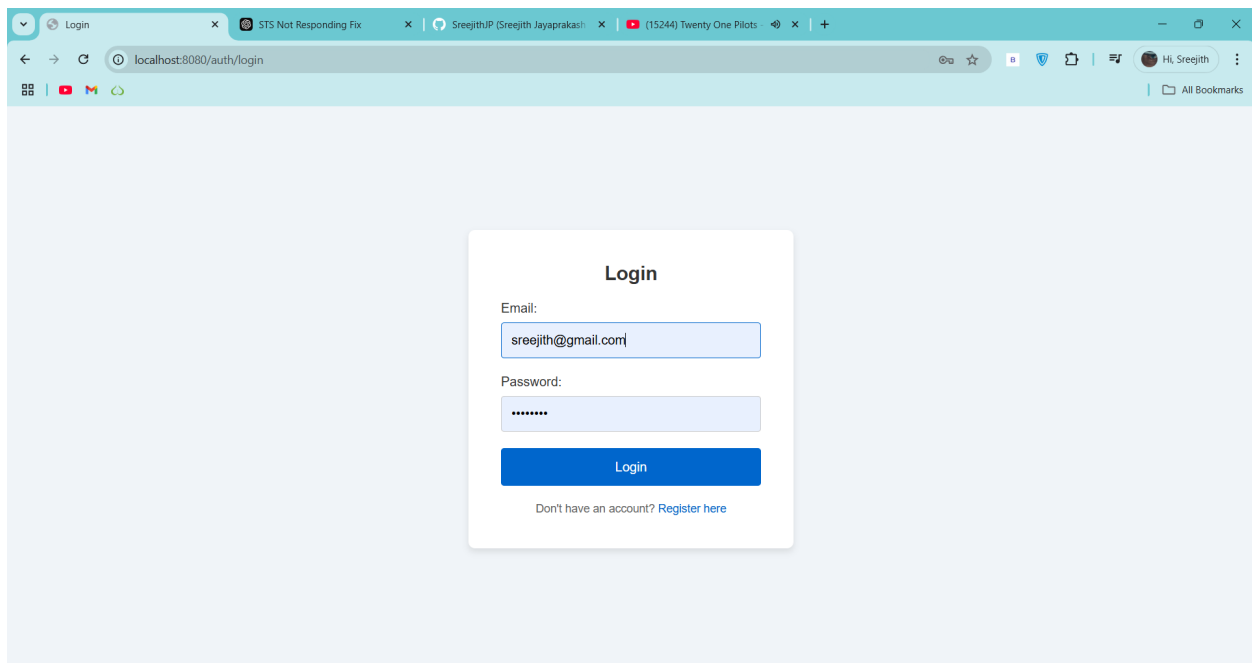
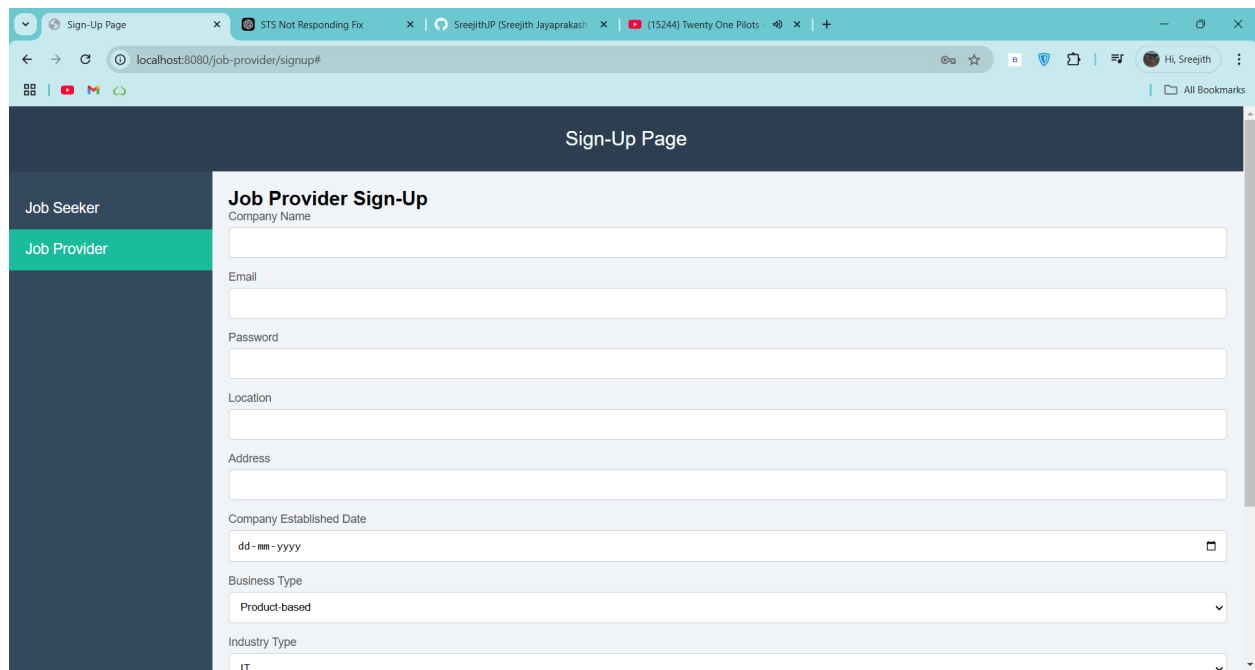


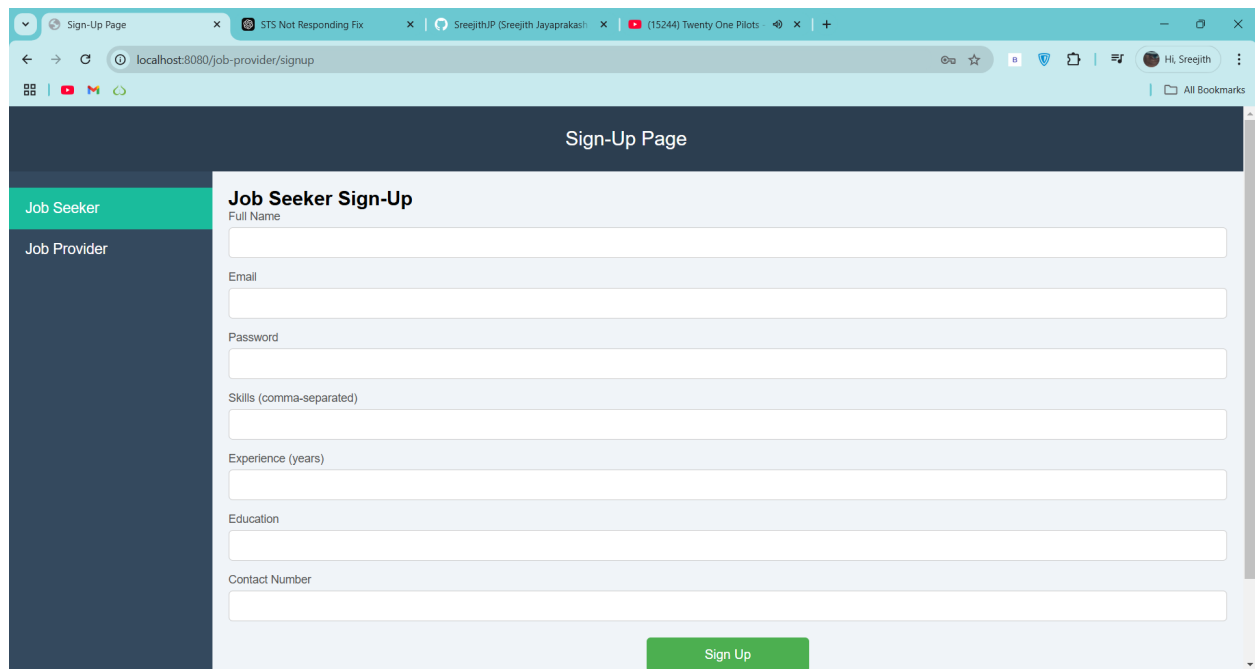
Figure 1: Login Page



The screenshot shows a web browser window with the URL `localhost:8080/job-provider/signup#`. The page is titled "Sign-Up Page" and features a sidebar with two options: "Job Seeker" and "Job Provider". The "Job Provider" option is selected and highlighted in green. The main content area is titled "Job Provider Sign-Up" and contains the following form fields:

- Company Name
- Email
- Password
- Location
- Address
- Company Established Date (format: dd-mm-yyyy)
- Business Type (dropdown menu, currently showing "Product-based")
- Industry Type (dropdown menu, currently showing "IT")

Figure 2: Signup Page for Job Provider



The screenshot shows the same web browser window, but the "Job Seeker" option in the sidebar is now selected and highlighted in green. The main content area is titled "Job Seeker Sign-Up" and contains the following form fields:

- Full Name
- Email
- Password
- Skills (comma-separated)
- Experience (years)
- Education
- Contact Number

A green "Sign Up" button is located at the bottom right of the form.

Figure 3: Signup Page for Job Seeker

## 6.2 Signup Page for Job Provider

## 6.3 Signup Page for Job Seeker

## 6.4 Job Provider Dashboard

### 6.4.1 Job Provider Home Page

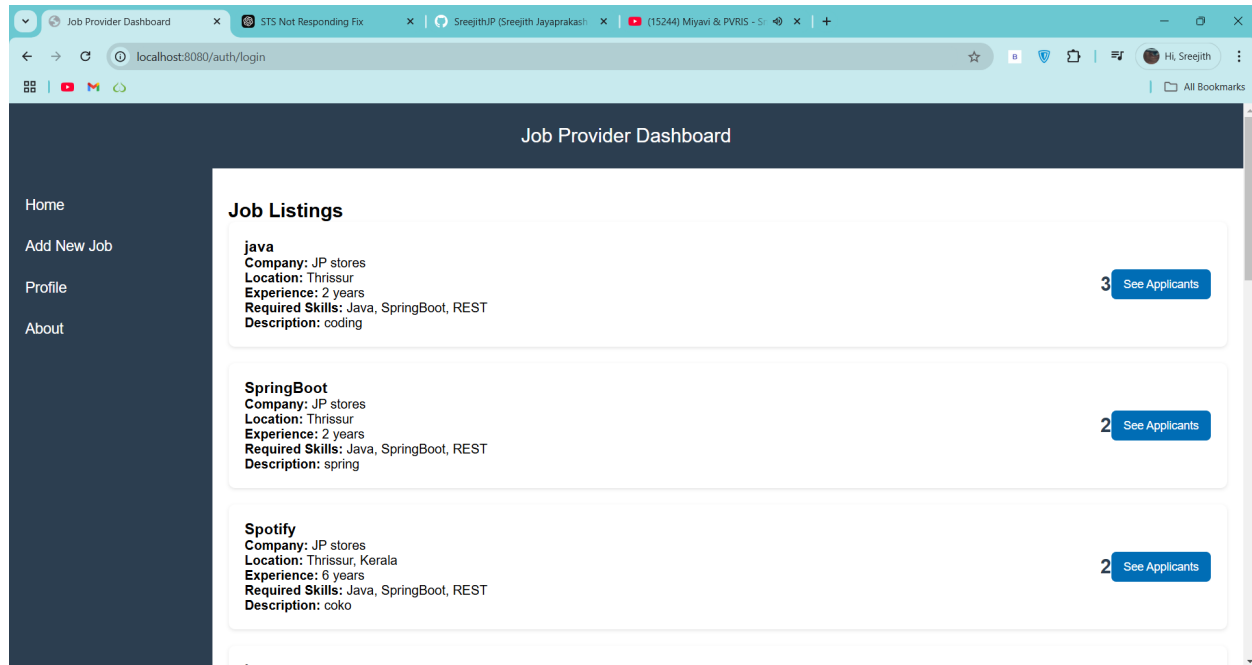


Figure 4: Job Provider Home Page

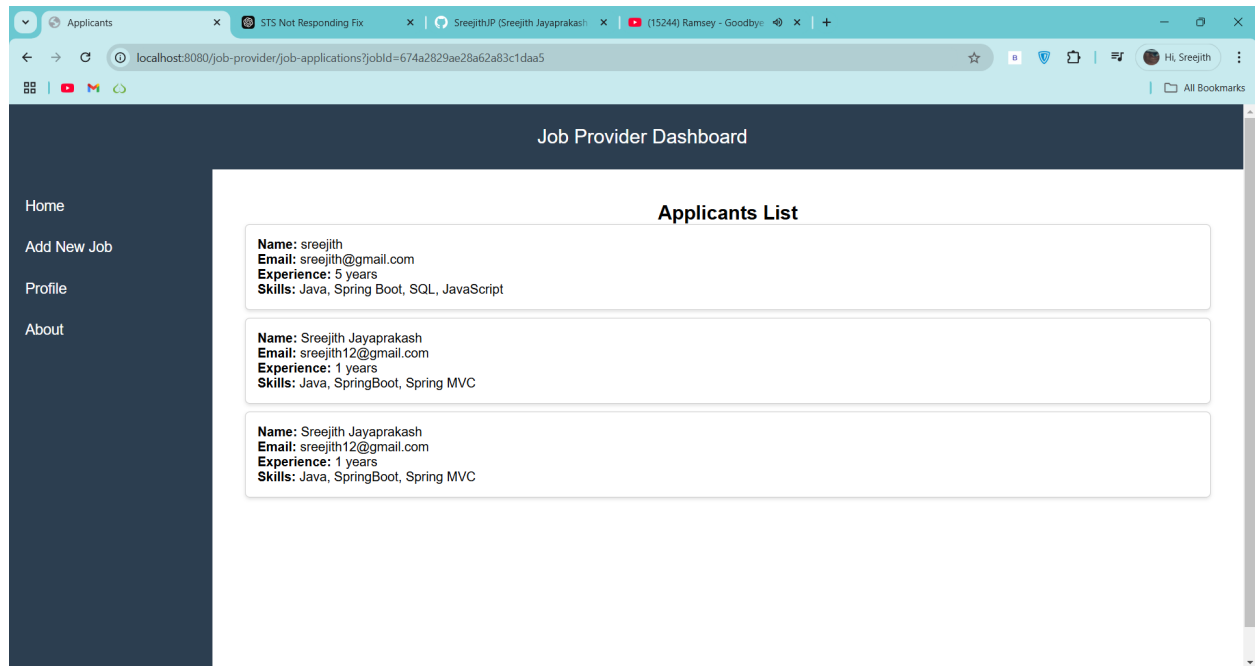


Figure 5: Job Provider See Applicants Page

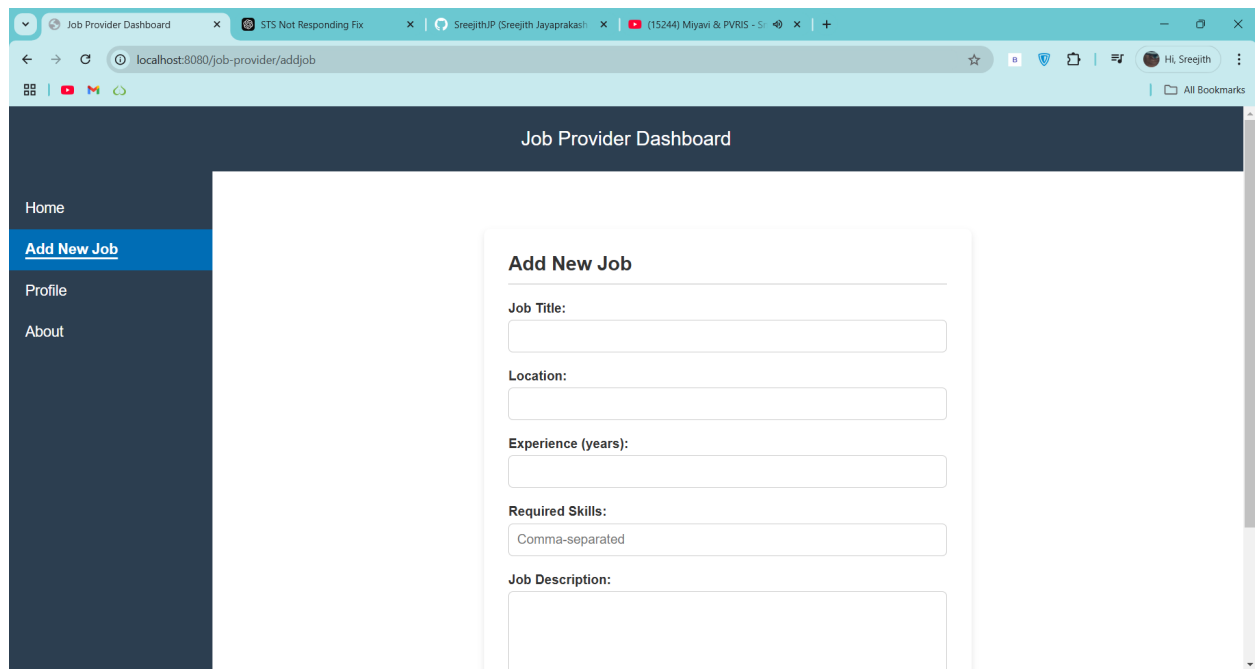


Figure 6: Job Provider Add Job Page



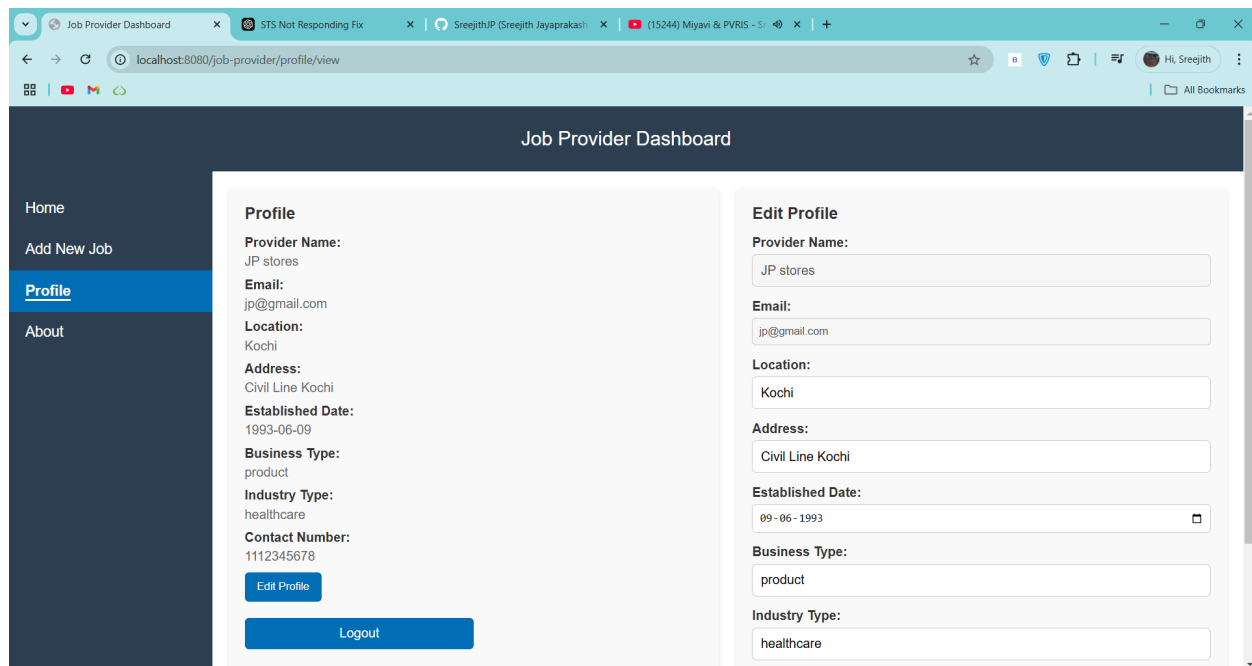


Figure 7: Job Provider Profile Section

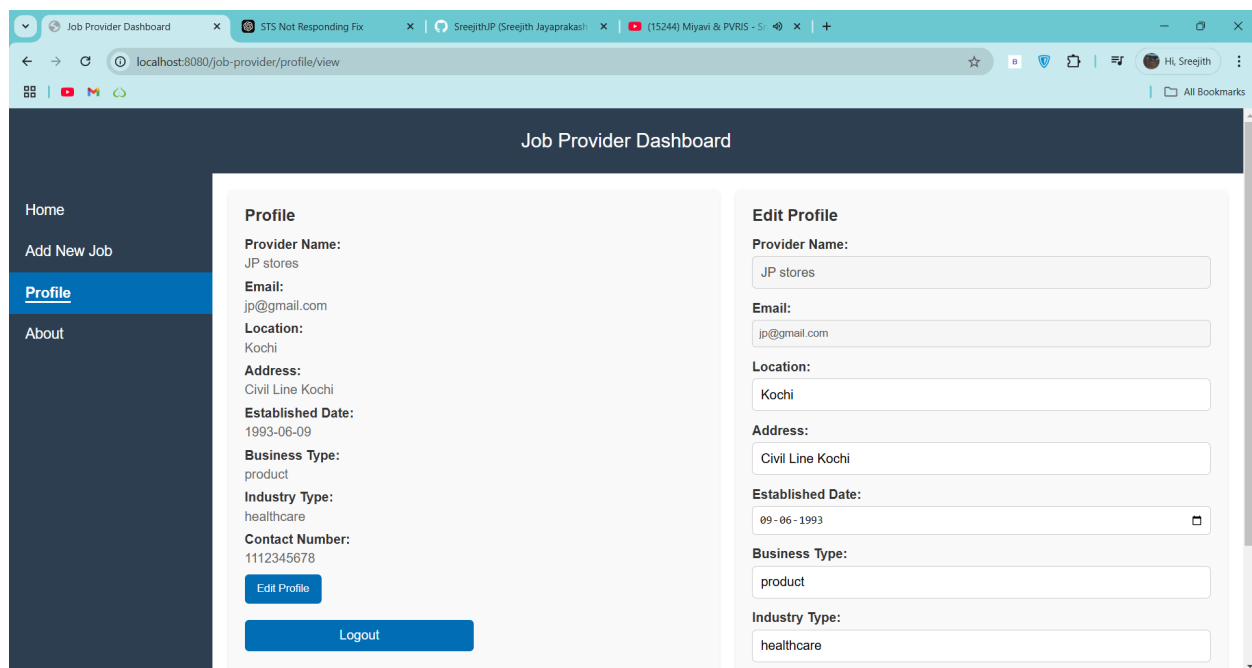


Figure 8: Job Provider Edit Profile Section

#### 6.4.2 See Applicants Page

#### 6.4.3 Add Job Page

#### 6.4.4 Job Provider Profile Section

#### 6.4.5 Job Provider Edit Profile Section

#### 6.4.6 Job Provider About Section

### 6.5 Job Seeker Dashboard

#### 6.5.1 Job Seeker Home Page with and without Filters

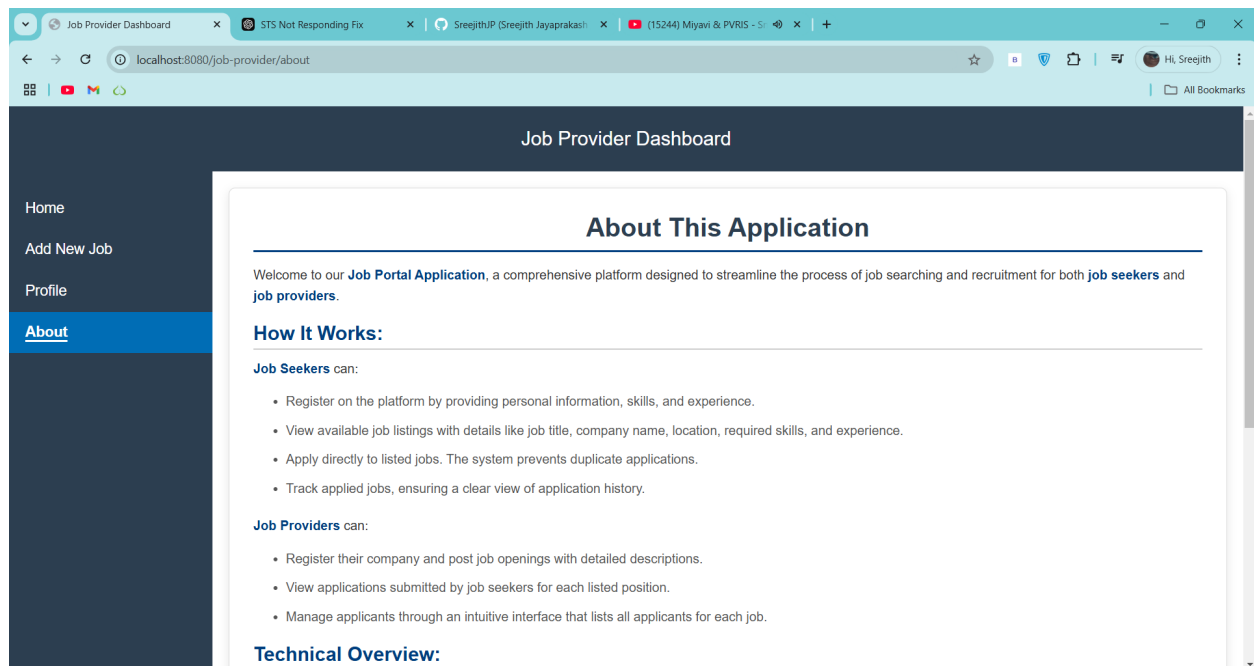


Figure 9: Job Provider About Section

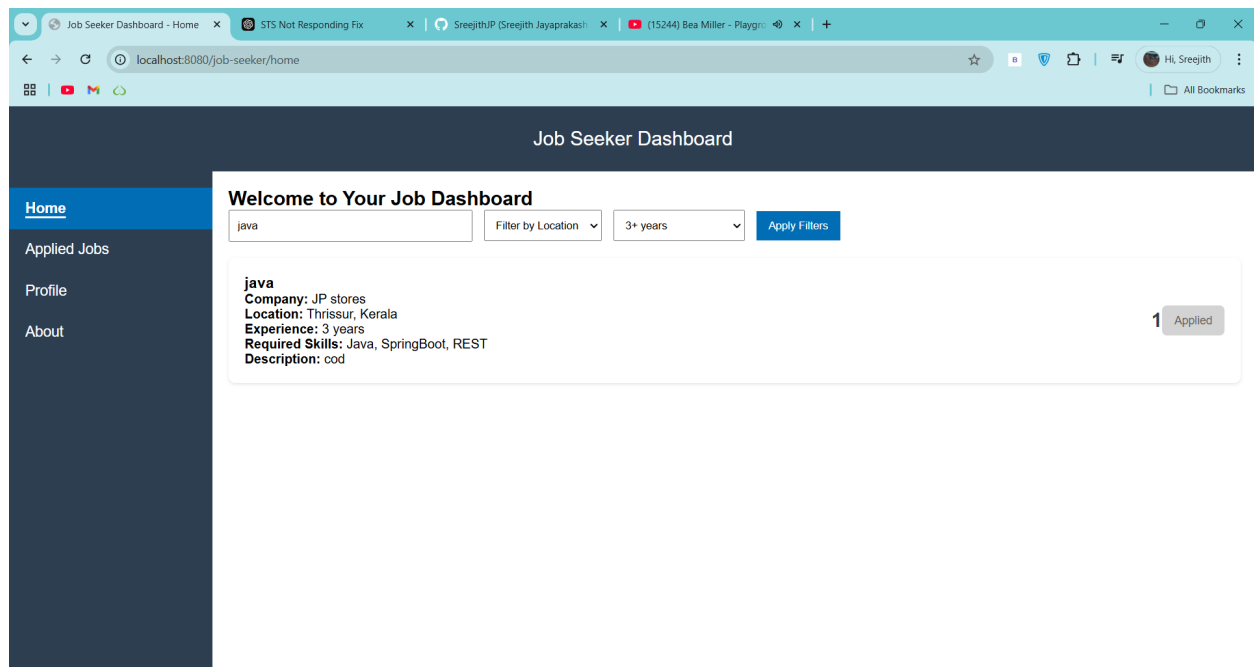


Figure 10: Job Seeker Home Page (with filters applied)

- **backend:** Contains all backend-related files, including controller classes, models, services, and MongoDB configuration.
- **frontend:** Contains all the HTML, CSS, and JavaScript files used to create the user interface of the application.

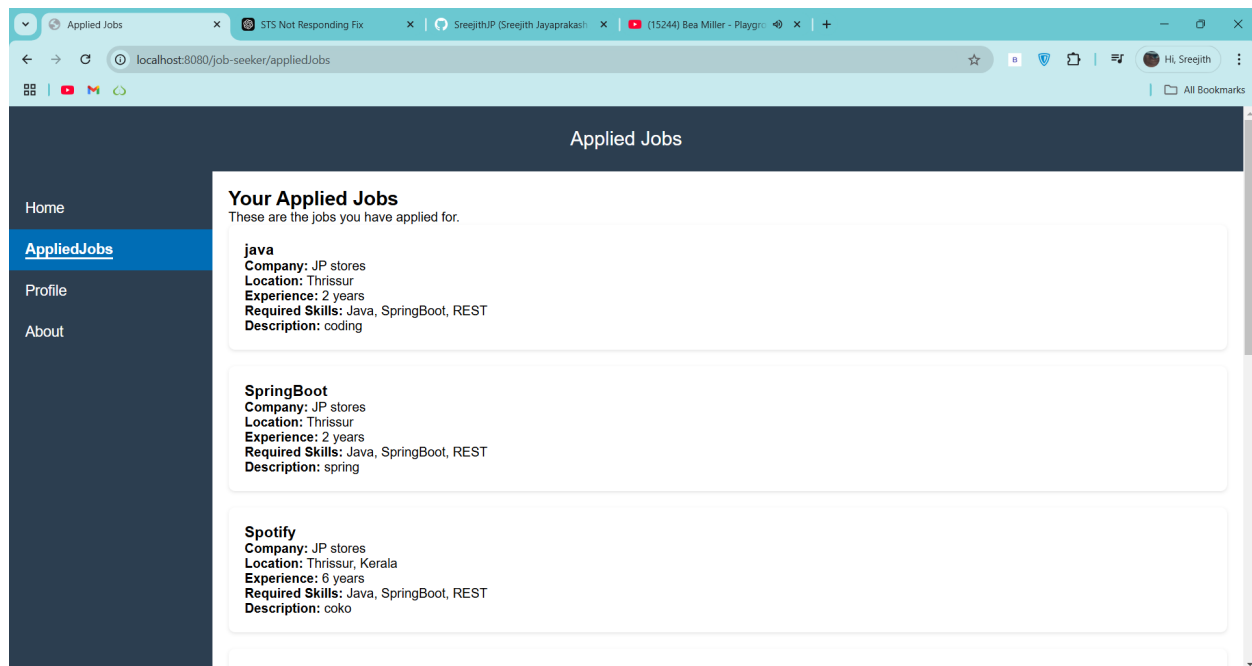


Figure 11: Job Seeker See Applied Jobs Page

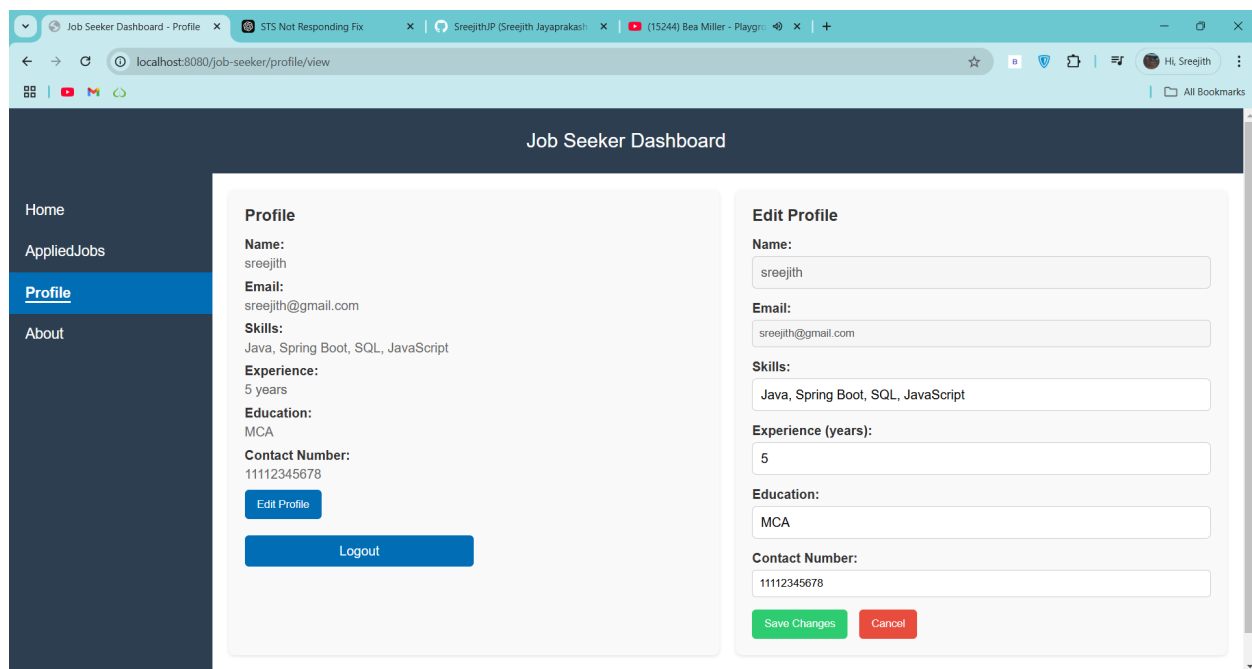


Figure 12: Job Seeker Profile Section and Edit Section

## 8 Controllers

### 8.1 Authentication Controller

Handles login, signup, and session management for both job seekers and job providers.

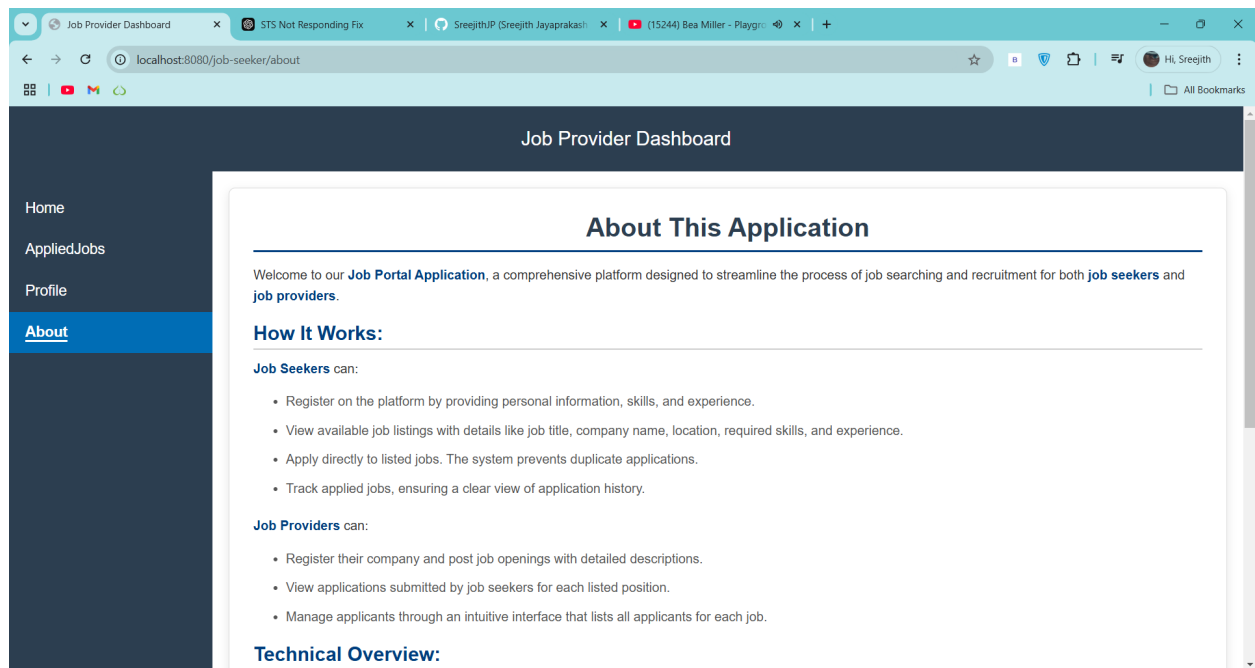


Figure 13: Job Seeker About Section

## 8.2 Job Seeker Controller

Manages job postings, applications, and job seeker profiles.

## 8.3 Job Provider Controller

Handles job posting creation, viewing applicants, and job provider profile management.

# 9 Conclusion

This project serves as a comprehensive platform for job seekers and job providers, offering a seamless user experience with secure login and session management. By using modern technologies like **Spring Boot**, **MongoDB**, and **JavaScript**, it offers efficient job application management and interaction between the two types of users.