Zidio Development Java Full Stack Internship Job Portal Project Report

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1. Introduction

The Job Portal project is a web-based application built using Spring Boot. It is designed to connect job seekers (students) with recruiters, enabling efficient job posting, searching, and application management. The system also provides an admin panel to manage users and monitor the portal.

2. Objectives

- To build a secure and scalable job portal.
- To allow recruiters to post and manage job listings.
- To allow students to apply for jobs and track application status.
- To provide role-based access for Admin, Recruiter, and Student.
- To ensure data security using JWT authentication.

3. Technologies Used

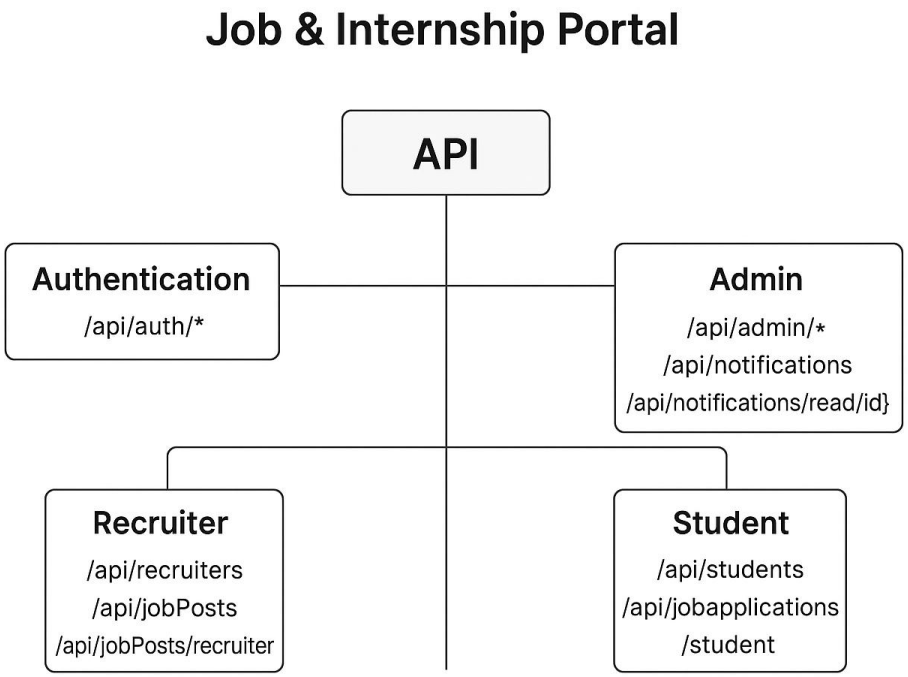
Backend: Java, Spring Boot
Database: MySQL
Frontend: React or JSP (optional)
Security: Spring Security with JWT
Build Tool: Maven
Others: JPA, Validation API

4. Project Architecture

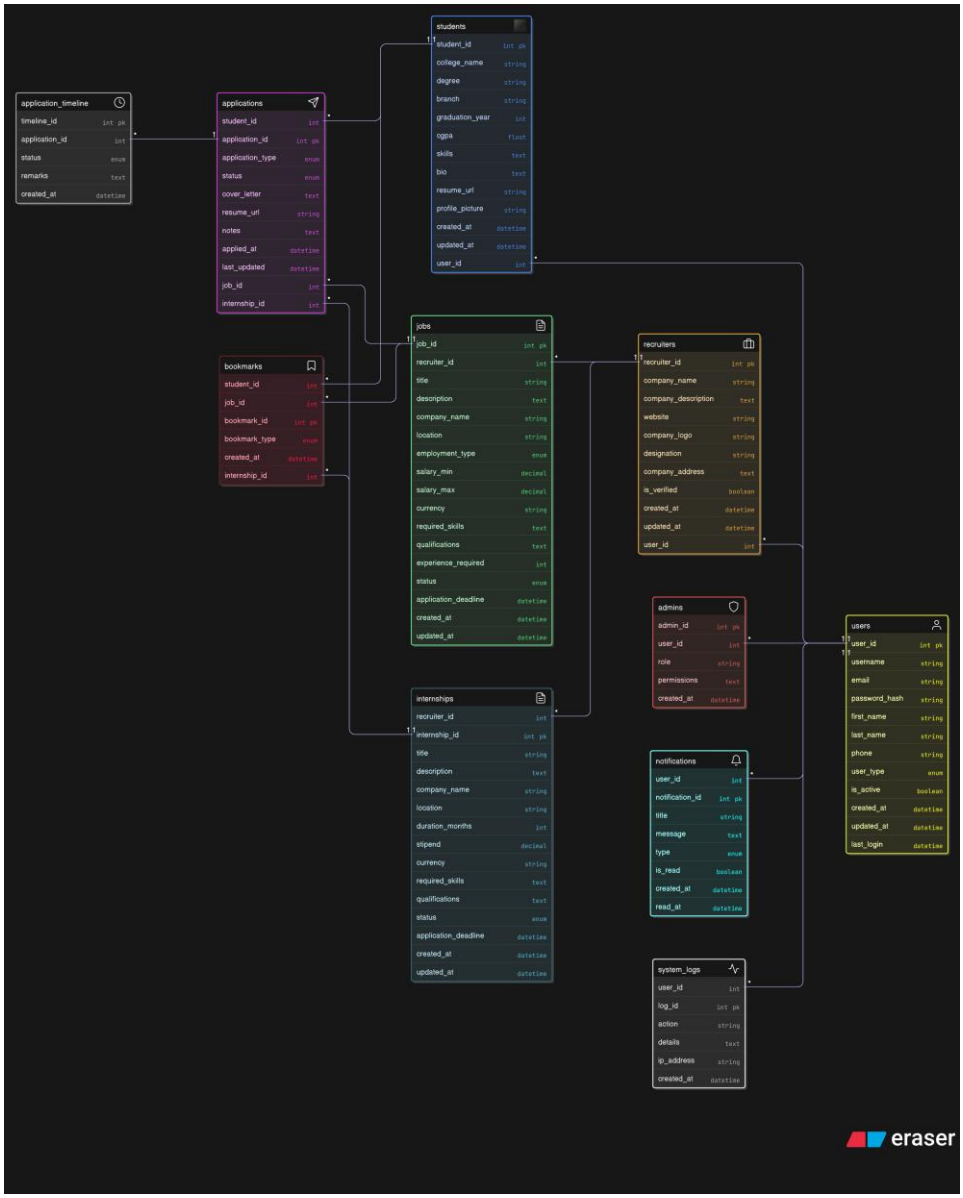
The project follows a layered architecture with clear separation of concerns:
- Controller Layer: Handles REST API requests.
- Service Layer: Business logic implementation.
- Repository Layer: Database operations using Spring Data JPA.
- Model Layer: Entity classes mapped to database tables.
- Security Layer: Manages authentication and authorization using JWT.
- DTO Layer: Transfers data between client and server without exposing entities.

5. Modules

1. Authentication Module – User login and registration with JWT.
2. User Module – Manages roles (Admin, Recruiter, Student).
3. Job Module – Recruiters can post, update, and delete jobs.
4. Application Module – Students can apply for jobs and check status.
5. Admin Module – Admin can manage users and jobs.



6. Database Design



7. Conclusion

The Job Portal project provides an efficient platform for job seekers and recruiters. It ensures secure authentication, role-based access, and seamless management of job postings and applications. The modular design makes it scalable and maintainable for future enhancements.