

# Software Requirements Specification (SRS)

## *Job Portal Application*

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### 1. Introduction

#### 1.1 Purpose

The purpose of this document is to specify the software requirements for a Job Portal Application that connects job seekers with employers. The system will allow users to register, create profiles, post jobs, apply to jobs, and manage the recruitment process.

#### 1.2 Scope

The Job Portal App will be available as a web and mobile application. It will allow:

- Job seekers to search and apply for jobs.
- Employers to post job listings and manage applications.
- Admins to manage users, job listings, and maintain the system.

#### 1.3 Definitions, Acronyms, and Abbreviations

- Job Seeker: A user looking for employment opportunities.
- Employer: A user or organization offering job vacancies.
- Admin: An authorized user with full access to manage the platform.
- CRUD: Create, Read, Update, Delete.

### 2. Overall Description

#### 2.1 Product Perspective

The Job Portal will be a standalone system that uses REST APIs to connect frontend (React/Flutter) with the backend (Node.js/Django).

#### 2.2 Product Functions

- User registration and login (with roles)
- Profile management
- Job posting and job application

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- Job search and filtering
- Resume upload and job alerts
- Messaging system
- Admin dashboard

### 2.3 User Classes and Characteristics

- Job Seekers: Need an intuitive interface to search and apply to jobs.
- Employers: Require tools to post jobs and filter candidates.
- Admins: Require monitoring tools for all activities on the platform.

### 2.4 Operating Environment

- Frontend: Web (React), Mobile (Flutter)
- Backend: Node.js/Django
- Database: PostgreSQL or MongoDB
- Hosting: AWS/GCP

## 3. Functional Requirements

### 3.1 User Authentication

- Register with email/password or social login
- Login/logout/reset password
- Role-based access (admin, employer, job seeker)

### 3.2 Job Seeker Module

- Create/edit profile and upload resume
- Search jobs by keyword, location, and filters
- Apply to jobs
- View application status
- Set job alerts

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### 3.3 Employer Module

- Create company profile
- Post job vacancies
- View applications
- Filter and shortlist candidates
- Message candidates

### 3.4 Admin Module

- Manage users and job listings
- Flag/remove inappropriate content
- Access analytics dashboard

## 4. Non-Functional Requirements

### 4.1 Performance Requirements

- Should handle up to 10,000 concurrent users
- Job search results within 2 seconds

### 4.2 Security Requirements

- Passwords hashed
- Role-based access control
- Input validation

### 4.3 Usability Requirements

- Intuitive UI/UX
- Responsive design
- Multi-language support (optional)

### 4.4 Reliability & Availability

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- 99.9% uptime
- Backup system every 24 hours

### **5. System Design Constraints**

- Must support REST APIs
- Must be containerized (Docker)
- Frontend and backend should be loosely coupled

### **6. Appendix**

- Sample user flows
- Mock UI screens (if available)
- API documentation references