**JOB SEARCH-SOFTWARE REQUIREMENTS SPECIFICATION**

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**1. INTRODUCTION**

**1.1. PURPOSE**

The purpose of this document is to define the software requirements for the development of a Job Search Platform tailored for Full Stack Web Development professionals. This platform aims to connect job seekers with relevant job opportunities in the field of web development.

**1.2. SCOPE**

The Job Search Platform will provide job seekers with features for user registration, job searching, job posting, messaging, and profile management. Employers will be able to post job listings, view applicant profiles, and communicate with potential candidates.

**1.3. DEFINITIONS, ACRONYMS, AND ABBREVIATIONS**

SRS: Software Requirements Specification

API: Application Programming Interface

UI: User Interface

**1.4. OVERVIEW OF THE DOCUMENT**

This document will provide an in-depth description of the Job Search Platform, including its features, user classes, requirements, system models, and more.

**2. OVERALL DESCRIPTION**

**2.1. PRODUCT PERSPECTIVE**

The Job Search Platform is a standalone web application that interacts with users through web browsers and communicates with a backend server. It may integrate with third-party services for authentication and job posting syndication.

**2.2. PRODUCT FEATURES**

The key features of the Job Search Platform include:

User Registration and Authentication

Profile Management

Job Posting and Search

Messaging

Notifications

Reporting and Analytics

**2.3. USER CLASSES AND CHARACTERISTICS**

The platform will have two primary user classes:

Job Seekers: Individuals looking for full stack web development job opportunities.

Employers: Companies or recruiters posting job listings for full stack web developers.

Each user class will have specific characteristics and access levels.

**2.4. OPERATING ENVIRONMENT**

The platform will operate in a web-based environment, accessible through popular web browsers. It will be hosted on reliable web servers and may leverage cloud-based services for scalability.

**2.5. DESIGN AND IMPLEMENTATION CONSTRAINTS**

The platform should be designed for responsiveness to ensure usability on various devices and screen sizes.It should be built using modern web development technologies and best practices.

**2.6. ASSUMPTIONS AND DEPENDENCIES**

The platform assumes that users have access to a stable internet connection.It may depend on third-party APIs for features like authentication and job syndication.

**3. SPECIFIC REQUIREMENTS**

**3.1. FUNCTIONAL REQUIREMENTS**

**3.1.1. User Registration and Authentication**

**3.1.1.1. Registration**

Users can register using their email addresses or social media accounts.

Registration requires validation through email confirmation.

Users must provide essential personal information.

**3.1.1.2. Authentication**

Users can log in using their registered email and password or social media accounts.

Passwords must be securely hashed and stored.

**3.1.2. Profile Management**

**3.1.2.1. Profile Creation**

Users can create and edit their profiles.

Profiles include personal information, skills, education, work experience, and a resume upload option.

**3.1.2.2. Privacy Settings**

Users can set privacy preferences for their profiles.

Privacy settings control who can view their profile information.

**3.1.3. Job Posting**

**3.1.3.1. Employer Job Posting**

Employers can post job listings, including job title, description, requirements, and contact information.

Job listings must be approved by administrators before becoming visible to job seekers.

**3.1.3.2. Job Search**

Job seekers can search for job listings using filters like location, skills, and job type.

Search results should be relevant and displayed in a user-friendly manner.

**3.1.4. Messaging**

**3.1.4.1. Messaging System**

Users can send and receive messages to and from employers.

Messages should support rich text and file attachments.

Users should receive notifications for new messages.

**3.1.5. Notifications**

**3.1.5.1. Notification Center**

Users should have a notification center displaying relevant updates, such as job application responses, new job listings, and messages.

**3.1.6. Reporting and Analytics**

**3.1.6.1. Reporting**

Administrators can access reporting tools to gather statistics on user activity, job postings, and user engagement.

**3.2. NON-FUNCTIONAL REQUIREMENTS**

**3.2.1. Performance**

The platform should load quickly and respond promptly to user interactions.

It should handle a large number of concurrent users efficiently.

**3.2.2. Security**

User data, especially passwords, must be stored securely.

SSL encryption must be used for data transmission.

The platform should have protection against common web vulnerabilities (e.g., XSS, CSRF).

**3.2.3. Usability**

The user interface should be intuitive and user-friendly.

The platform should be accessible to users with disabilities.

**3.2.4. Scalability**

The system should be designed to handle increased traffic and data growth.

**3.2.5. Compatibility**

The platform should be compatible with major web browsers (e.g., Chrome, Firefox, Safari).

It should adapt to various screen sizes and devices.

**3.2.6. Availability**

The platform should have high availability, with minimal downtime for maintenance.

**3.2.7. Data Backup and Recovery**

Regular data backups should be performed to prevent data loss.

A disaster recovery plan should be in place.

**3.2.8. Legal and Regulatory Compliance**

The platform should comply with data protection laws and regulations, such as GDPR.

**3.3. System Interfaces**

The platform will communicate with external APIs for authentication and job syndication.

It may integrate with email services for notifications.

**3.4. User Interfaces**

The user interfaces should be responsive and visually appealing.

They should provide an intuitive user experience.

**3.5. Software Interfaces**

The platform will use web development frameworks and libraries.

It may integrate with third-party software for specific features.

**3.6. Communication Interfaces**

The platform will communicate with users through web browsers.

It may use email for notifications and messaging.

**3.7. Database Requirements**

The system will use a relational database to store user data, job listings, and messages.

Database operations should be optimized for performance.

**3.8. Security Requirements**

User data must be encrypted during transmission.

User authentication and authorization should be robust and secure.

Regular security audits and vulnerability assessments should be conducted.