

Job-Den

# Software Requirements Specification

INT220

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Prepared for  
Continuous Assessment 3  
Autumn 2024

## Revision History

Date	Description	Author	Comments
8-11-2024	Version1	Satyam Yadav	First Revision

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# 1. Introduction

*Job-Den is a web-based platform developed in PHP, designed to simplify job searching, application submissions, and freelancing opportunities in one place. It serves both job seekers and employers, offering features such as job listings, application management, and freelance project postings. With a user-friendly interface, advanced search options, and real-time updates, JobDen aims to provide a seamless, efficient experience for users seeking employment and companies looking to hire. This document outlines the system requirements and features essential to the development and successful operation of Job-Den.*

## 1.1 Purpose

*The purpose of this Software Requirements Specification (SRS) document is to define and describe the functionality and requirements of the Job-Den application, a comprehensive platform for job searching, applying, and freelancing work. This document serves as a guideline for developers, project stakeholders, and testers, outlining the expected features, system requirements, and objectives of Job-Den.*

## 2 Scope

*The Job-Den application is designed to provide a seamless experience for job seekers, freelancers, and employers. It includes features for searching job listings, applying for jobs, and finding freelancing opportunities, while allowing employers to post job listings and hire suitable candidates. The application will support various job categories and allow filtering options for users to customize their job searches. The primary objectives of Job-Den are to streamline job search processes and provide a user-friendly interface for career development.*

## 1.3 Definitions, Acronyms, and Abbreviations

**SRS:** Software Requirements Specification

**Job-Den:** The application name for this job searching and freelancing platform

**UI:** User Interface

**API:** Application Programming Interface

**CRUD:** Create, Read, Update, Delete – basic database operations

**Freelancer:** A person offering freelance work through the Job-Den platform

**Employer:** A company or individual posting jobs or hiring through the Job-Den platform

## 1.4 References

(1) <https://trio.dev/php-development-guide/>

(2) <https://www.php.net/manual/en/book.mysql.php>

(3) <https://www.naukri.com/code360/library/5-best-free-php-projects-with-source-code>

## 1.5 Overview

*This document outlines the functional and non-functional requirements for the Job-Den application. Section 2 will cover the general system description, including the intended users and*

*the product's operating environment. Section 3 will delve into specific requirements, detailing the functionality of the system and its components. Finally, Section 4 will address non-functional requirements, including performance, security, and usability criteria essential to the successful operation of Job-Den.*

## **2. General Description**

*This section of the SRS should describe the general factors that affect the product and its requirements. It should be made clear that this section does not state specific requirements; it only makes those requirements easier to understand.*

### **2.1 Product Perspective**

*Job-Den is a web-based application built in PHP, connecting job seekers, freelancers, and employers. It provides job search, application, and freelancing features, with a responsive design for various devices.*

### **2.2 Product Functions**

*Job-Den offers job search, application submission, freelancing opportunities, an employer portal, profile management, and notifications for job matches and application updates.*

### **2.3 User Characteristics**

*The platform serves job seekers, freelancers, and employers, all requiring basic internet skills. Employers may need familiarity with job posting.*

### **2.4 General Constraints**

*Job-Den is constrained by server capacity, security requirements, performance needs, and compatibility with major web browsers and devices.*

### **2.5 Assumptions and Dependencies**

*It assumes users have stable internet and that standard document formats are used. The platform may depend on third-party APIs for notifications and payment processing.*

## **3. Specific Requirements**

*This section details the software requirements for the Job-Den application. Each requirement has been crafted to be correct, traceable, unambiguous, verifiable, prioritized, complete, consistent, and uniquely identifiable. These requirements will serve as a foundation for the software's design, implementation, and testing phases, without prescribing specific design constraints.*

## 3.1 External Interface Requirements

### 3.1.1 User Interfaces

The system shall provide a responsive login and registration page where users can authenticate or create a new account. (Priority: High)

The user dashboard shall present customized content based on user roles (job seeker, freelancer, or employer), including relevant actions and notifications. (Priority: High)

Job search and listing pages shall provide filters for category, location, keywords, and job type. (Priority: Medium)

Users shall be able to view job details, apply for jobs, and upload resumes directly from the job listing page. (Priority: High)

A profile management page shall enable users to create and edit their personal profiles, including uploading resumes and work preferences. (Priority: Medium)

In-app and email notifications shall alert users to job updates, application statuses, and messages from employers. (Priority: Medium)

### 3.1.2 Hardware Interfaces

**Requirement 3.1.2.1:** JobDen shall operate on a server infrastructure capable of handling at least 1,000 concurrent users. (Priority: High)

**Requirement 3.1.2.2:** The platform shall be accessible on desktop, tablet, and mobile devices without specific hardware constraints. (Priority: Medium)

### 3.1.3 Software Interfaces

**Requirement 3.1.3.1:** JobDen shall use a relational database to manage user profiles, job listings, applications, and messaging data. (Priority: High)

**Requirement 3.1.3.2:** The platform shall integrate with third-party email services for sending notifications. (Priority: Low)

**Requirement 3.1.3.3:** If premium services are implemented, JobDen shall integrate with a third-party payment processor for handling transactions. (Priority: Low)

### 3.1.4 Communications Interfaces

**Requirement 3.1.4.1:** JobDen shall use HTTP/HTTPS protocols for secure data transfer between the client and server. (Priority: High)

**Requirement 3.1.4.2:** The platform shall use SMTP for sending email notifications to users regarding application statuses and other important updates. (Priority: Medium)

## 3.2 Functional Requirements

*This section describes specific features of the software project. If desired, some requirements may be specified in the use-case format and listed in the Use Cases Section.*

### 3.2.1 Job Search and Application

The system shall allow users to search jobs with filtering options such as category, location, keywords, and job type (full-time, part-time, freelance). (Priority: High)

Users shall be able to apply to jobs by submitting an application and uploading a resume. (Priority: High)

Employers shall be able to post job listings, specifying details like position title, category, location, and job description. (Priority: High)

Employers shall be able to review applicants and update application statuses (e.g., received, under review, rejected, accepted). (Priority: High)

### **3.2.2 User Profile Management**

**Requirement 3.2.2.1:** Job seekers and freelancers shall be able to create profiles, including personal information, resume uploads, and work preferences. (Priority: Medium)

**Requirement 3.2.2.2:** Employers shall create profiles with company information and job requirements to post job openings. (Priority: Medium)

**Requirement 3.2.2.3:** Users shall be able to edit or delete their profiles at any time. (Priority: Medium)

## **3.5 Non-Functional Requirements**

*Non-functional requirements may exist for the following attributes. Often these requirements must be achieved at a system-wide level rather than at a unit level. State the requirements in the following sections in measurable terms (e.g., 95% of transaction shall be processed in less than a second, system downtime may not exceed 1 minute per day, > 30 day MTBF value, etc).*

### **3.5.1 Performance**

The platform should load pages within 2 seconds for standard operations and maintain responsiveness with up to 1,000 concurrent users.

### **3.5.2 Reliability**

Job-Den should provide 99.9% uptime to ensure availability for job seekers and employers.

### **3.5.3 Availability**

Available 24/7 with minimal downtime for maintenance, and automatic failover in case of server issues.

### **3.5.4 Security**

Data encryption for sensitive information, including passwords and personal data.

Role-based access control to restrict features based on user type (job seeker, freelancer, employer).

### **3.5.5 Maintainability**

Code should follow modular and reusable standards, allowing for future updates with minimal disruption.

### **3.5.6 Portability**

Job-Den should be compatible with all major web browsers (Chrome, Firefox, Safari) and accessible on desktop, tablet, and mobile devices.

## **3.7 Design Constraints**

Must be developed using PHP and a relational database.

Follows best practices for web accessibility to ensure usability for people with disabilities.

### 3.9 Other Requirements

**Data Backup:** Automatic daily backups to prevent data loss.

**Scalability:** Ability to scale server resources as the user base grows.

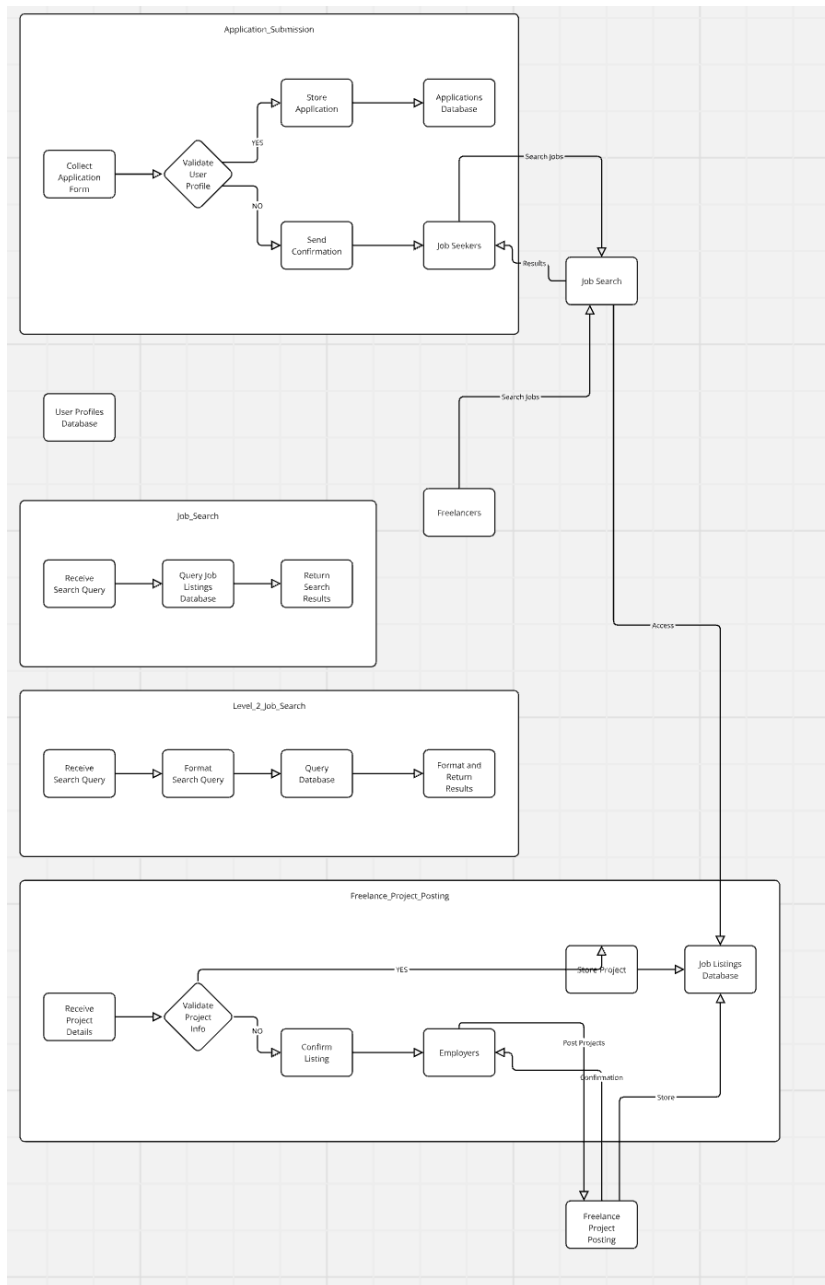
**Localization:** Support for multiple languages, if required, to accommodate a diverse user base..

## 4. Analysis Models

List all analysis models used in developing specific requirements previously given in this SRS. Each model should include an introduction and a narrative description. Furthermore, each model should be traceable the SRS's requirements.



## 4.1 Data Flow Diagrams (DFD)



## 5.GitHubLink

<https://github.com/satyamjiyadav>

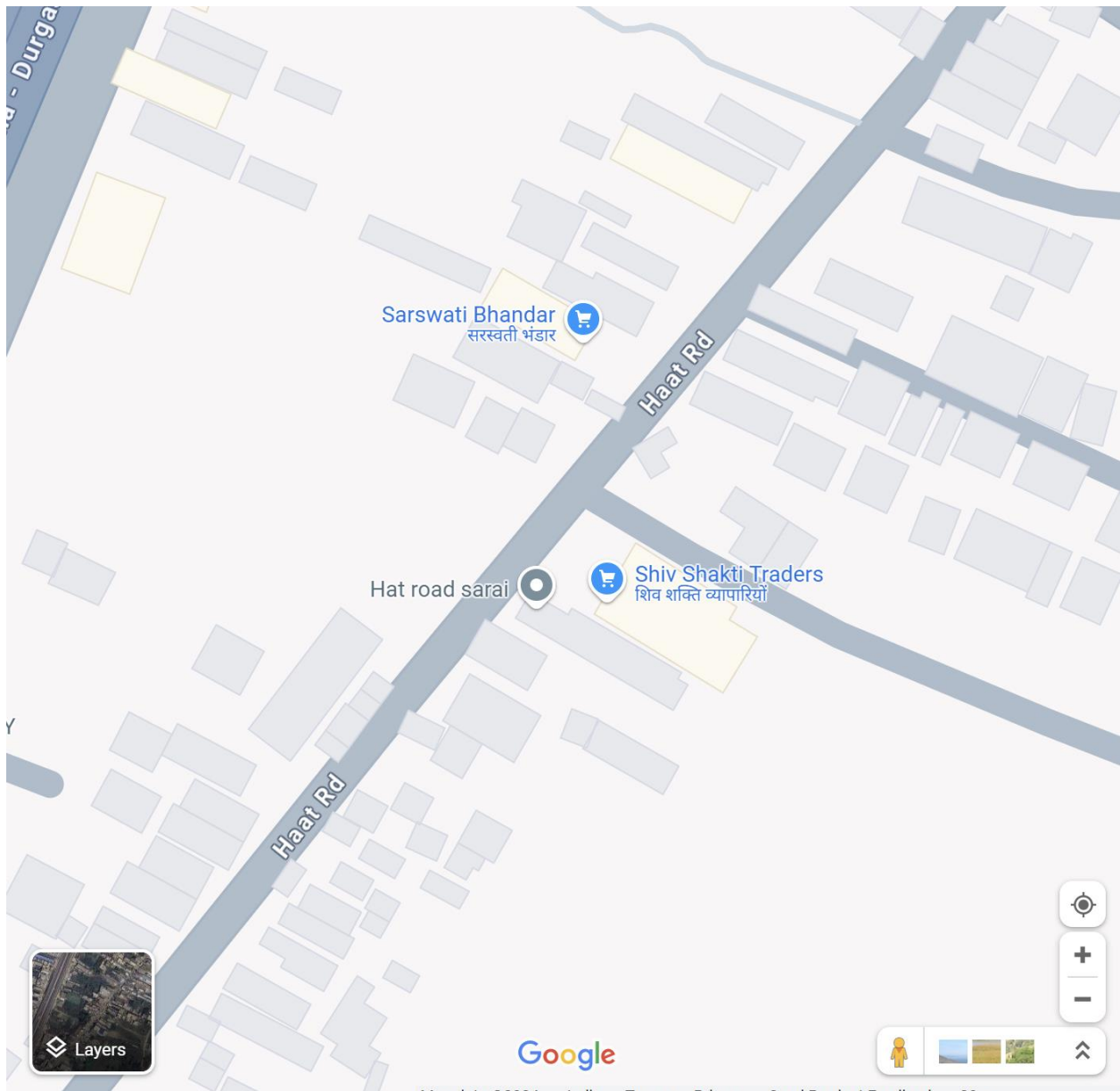
## .7. CLIENT APPROVAL PROOF

SIMPLE PROJECT APPROVAL  
FORM TEMPLATE

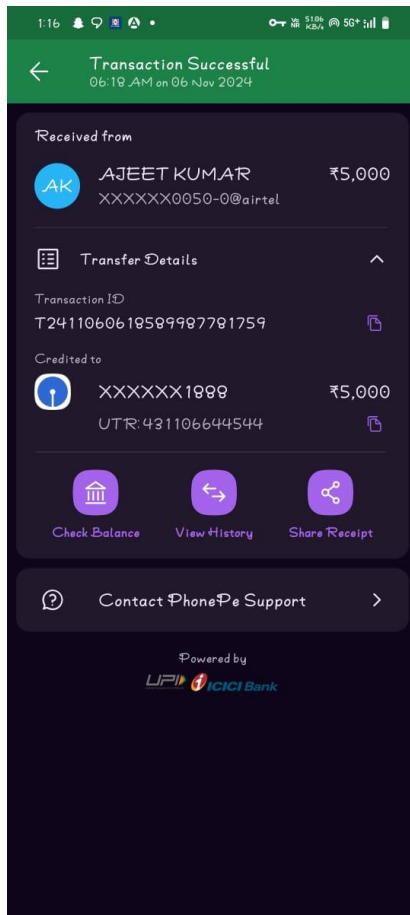
PROJECT NAME	Job-Den		
JOB LOCATION	Student		
EST. START DATE	1 September	EST. FINISH DATE	28 October
PROJECT LEADER	Satyam Yadav	COMPANY	Person
CONTACT NAME	Shivendra Yadav	ADDRESS	Bengaluru
PHONE	6388849585		
EMAIL	shivendrayadav4866@gmail.c		
SUMMARY	A web pages that aim to highlight features, list pricing, and ultimately get people to convert by signing up for a free trial or subscription.		
DESIRED OUTCOME	. It serves both job seekers and employers, offering features such as job listings, application management, and freelance project postings		
ACTION TO COMPLETION	". It serves both job seekers and employers, offering features such as job listings, application management, and freelance project postings		
BENEFITS OF PROJECT	With a user-friendly interface, advanced search options, and real-time updates, <del>JobDen</del> aims to provide a seamless, efficient experience for users seeking		
PROJECTED SCHEDULE	This document outlines the system requirements and features essential to the development and successful operation of Job-Den		
PROJECTED BUDGET	2000		
PROJECTED TEAM AND RESOURCE REQUIREMENTS	<a href="https://trio.dev/php-development-guide/">https://trio.dev/php-development-guide/</a>		
PROPOSAL MAY BE WITHDRAWN IF NOT ACCEPTED BY DATE OF			
ACCEPTANCE OF PROPOSAL			
AUTHORIZED CLIENT SIGNATURE	Shivendra yadav	DATE OF ACCEPTANCE	1 October

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## 8. Client location proof



## 9. TRANSCATION ID PROOF



## APPENDIX

### A.1 Appendix 1

This appendix includes early conceptual diagrams, sketches, or descriptions of how the JobDen application was envisioned at the initial stages. These documents help clarify the overall vision, system architecture, and design principles of the Job-Den platform.

### A.2 Appendix 2

This appendix includes additional relevant documents, meeting notes, or prototype information related to the development of JobDen. It may contain:

- **Meeting Notes:** Records of key meetings with stakeholders, including discussions about features, design, and project scope.
- **Prototype Information:** Early-stage mockups or prototypes of the user interface, showcasing the visual design and layout of the JobDen platform.
- **User Feedback:** Initial feedback from potential users or focus groups that influenced the design and functionality of the platform.

- **Feature Descriptions:** Detailed descriptions of key features, how they function, and their intended impact on the user experience.