

---

# **Software Requirements Specification**

## **Online Job Portal**

**Version 1.0 approved**

**Prepared By : Rajat Movaliya , Jaydeep Monapara & Akash Padhiyar**

**24<sup>th</sup> August 2017**

# Table of Contents

<b>Table of Contents .....</b>	<b>ii</b>
<b>Revision History .....</b>	<b>ii</b>
<b>1. Introduction.....</b>	<b>1</b>
1.1 Purpose.....	1
1.2 Document Conventions.....	1
1.3 Intended Audience and Reading Suggestions .....	1
1.4 Product Scope .....	1
1.5 References.....	1
<b>2. Overall Description .....</b>	<b>2</b>
2.1 Product Perspective.....	2
2.2 Product Functions .....	2
2.3 User Classes and Characteristics .....	2
2.4 Operating Environment.....	2
2.5 Design and Implementation Constraints .....	2
2.6 User Documentation .....	2
2.7 Assumptions and Dependencies .....	3
<b>3. External Interface Requirements .....</b>	<b>3</b>
3.1 User Interfaces .....	3
3.2 Hardware Interfaces .....	3
3.3 Software Interfaces .....	3
3.4 Communications Interfaces .....	3
<b>4. System Features .....</b>	<b>4</b>
4.1 System Feature 1.....	4
4.2 System Feature 2 (and so on).....	4
<b>5. Other Nonfunctional Requirements .....</b>	<b>4</b>
5.1 Performance Requirements .....	4
5.2 Safety Requirements .....	5
5.3 Security Requirements .....	5
5.4 Software Quality Attributes .....	5
5.5 Business Rules .....	5
<b>6. Other Requirements .....</b>	<b>5</b>
<b>Appendix A: Glossary.....</b>	<b>5</b>
<b>Appendix B: Analysis Models .....</b>	<b>5</b>
<b>Appendix C: To Be Determined List.....</b>	<b>6</b>

## Revision History

Name	Date	Reason For Changes	Version

# **Introduction**

## **Purpose**

This is a SRS document refers Online Job Portal Release 2017 version 1.0.0.0. It describes the functionality and specification of how the Online Job Portal will help job seeker for getting best economical and satisfied job and job provider companies for getting best hard to find employees , in an efficient way. It also specifies how it will interact with the end users.

## **Document Conventions**

The document is preparing using IEEE template of SRS (Ref: Copyright © 1999 by Karl E Wiegers).

We describe requirements in natural language sentences. Functional requirements are described with input , output and description.

## **Intended Audience and Reading Suggestions**

This document is solely intended for study purpose and refers to subject Software Engineering. It must be referred by the managing staff, developers, testers and documentation writers. Every reader should have to read this document sequentially as per index to avoid any confusion.

## **Product Scope**

This system is designed to maximize the efficiency of connecting job seeker and job provider companies easily by providing online platform with authentication, which would otherwise be done manually.

- System will provide an automatized recommendation of jobs which will reduce the job seeker's task to find jobs.
- System provides an interface to connect the job seekers.
- System also provides facility to refer jobs to connected job seekers.
- System is only designed for professional job seekers which are registered into the system.
- System won't include chatting facility between connected job seekers.
- System won't include the facility of posting articles or any media like Linked In.

## **References**

## **Overall Description**

### **Product Perspective**

This software is developed as a part of course work the subject “Software Engineering”. The software will make connection of job seeker and job provider companies chaos free by providing online platform. The focus of this system is to provide an interface which is user-flexible with reduced man-power.

### **Product Functions**

- System will recommend the job based on job seeker's profile.
- A job seeker can search companies, jobs based on region, name, category and other job seekers by their names and one can also search the job based on designation.
- System will send notifications of approved jobs, new connection request and referred jobs.
- System will provides facility to job seekers to save the jobs in which one is interested.
- System provide facility to job seeker to add academic information, experience details, skills, projects and achievements in the profile.
- System will provide facility to post jobs and it's vacancy delete & edit jobs and select aspirants to companies.
- System will provide facility to job seekers to make connections and refer jobs among them.

### **User Classes and Characteristics**

- Basically there are two types of end users i.e.,

(1) Job Provider Companies :

Those which wants best and high skilled employee from the global workforce for particular job.

(2) Job Seekers :

The person who wants to get best economical and satisfied jobs globally.

Job Seekers can be further divided into two categories :-

(A) Students (Fresher) :-

Those person who are currently studying and have no any work experience.

(B) Employees :-

Those person who have been working in some companies and have some work experience.

## **Operating Environment**

- End user should have a computer or laptop device working on a Windows Operating System having internet connection.
- There will be centralized server that will be working on a personalized computer or laptop on the developer side having a Windows Operating System and a working internet connection.

## **Design and Implementation Constraints**

- System must be reliable enough to run crash and glitch free more or less indefinitely.
- System will not provide the facility of chatting with connected job seekers.
- System will not allow to post articles or any type of media.

## **Assumptions and Dependencies**

- System may not work if appropriate network or hardware is not supplied.
- Mainline network of system highly needs electricity to work on.

## **External Interface Requirements**

### **User Interfaces**

Application can be accessed through any browser interface. The software will be fairly compatible with Microsoft Internet Explorer Version 8 and above or other modern web browsers.

### **Hardware Interfaces**

#### **Server Side:**

Operating System: Windows XP, 7, 8, 8.1, 10.  
Processor: Intel core i3 (5<sup>th</sup> Gen.) 2.5 GHz or higher.  
RAM: 4GB or higher.  
Hard-Disk: 100GB or more.

#### **Client Side:**

Operating System: Windows XP, 7, 8, 8.1, 10.  
Processor: Pentium or any 2.5 GHz or higher.  
RAM: 2GB or higher.

### **Software Interfaces**

#### **Client Side:**

HTML supported Web Browsers, Windows XP, 7, 8, 8.1, 10, MAC OS, Linux (All Flavors).

#### **Server Side:**

Windows XP, Vista, 2000, 7, 8, 8.1, 10, SQL Database.

### **Communications Interfaces**

The Online Job Portal shall use the HTTP protocol for communication over the internet will be through TCP/IP protocol suite.

## System Features

### 4.1 System provides authentication facility to the user based on login-id and password.

R1.1- System authenticates user based on login-id and password.

R1.1.1- System provides interface through which user can enter username& password and membership type.

R1.1.2- System searches username and password in database according to its membership type.

R1.1.3-System generates authentication status.

R1.2-System allows user to create new account.

R1.2.1- System provides interface through which user can enter details like username, password, membership type and select security question and answer it.

R1.2.2 - System provides next registration interface based on its membership type.

R1.2.2.1 - If membership type is Company, then it will provide forms for its basic details like name, category, location etc.

R1.2.2.2 – If membership type is Job seeker, then it will provide forms to fill its details like personal detail, work experience, skills, projects, etc.

R1.2.3 -System stores user details in database.

R1.2.4 -System generates registration status.

R1.3-System allows user to regain account access on forgetting the password.

R1.3.1- System provides interface through which user can enter answer of security question.

R1.3.2-System authenticate user by security questions.

R1.3.3- System provides interface through which user can enter new password.

R1.3.4-System update password for user in database.

## 4.2 System recommends jobs to job seeker.

R2.1: System compares job seeker's profile and companies' criteria for job and recommends jobs.

**Input:** job seeker's age, experience, location, field of work and job criteria

**Output:** Best suitable jobs

## 4.3 System provides facility to job seeker and company to search companies, jobs and other job seekers.

**Input:** string of search.

**Output:** matched jobs, companies and job seekers.

**Description :** System search string into database of company by its name, jobs by its designation and job seekers by its name.

## 4.4 System shows notification of connection request & acceptance, approved jobs.

**Input:** Approved Jobs, Connection Requests & Acceptance

**Output:** Display notification.

**Description :** System will automatically generates notification whenever company select aspirant, new connection request come or someone accept ones connection request.

## 4.5 System provides facility to see job details, which has been searched, recommended or referred and apply or save job.

**Input:** Job

**Output:** Action like apply or save job.

R5.1 :System provides facility to add reference while applying for a job.

**Input:** job and reference details.

**Output:** Apply job with referenced details.

**Description :** Job seeker can add references' details like name, designation, company or organization name with applied job.



**4.6 System provides facility to edit profile of both job seeker and job provider company.**

**Input:** details of profile.

**Output:** Save into database.

**4.7 System provides facility to make connections and refer jobs to one another among job seekers.**

R7.1 : System provides facility to send request to other job seeker.

**Input:** Job seeker name

**Output :** Make request and display notification to requested job seeker.

R7.2 : System provides facility to accept request of other job seeker.

**Input:** Job seeker name who requested.

**Output :** Make connection and display notification to acceptance to sender of request.

R7.3 : System provides facility to refer job to connected one.

**Input:** name of job & job seeker.

**Output :** Send notification of job to given job seeker.

R7.4 : System provides facility to disconnect a job seeker from ones connections.

**Input:** Job seeker name

**Output :** Disconnect from connections.

**4.8 System provides facility to company to post, delete and edit job.**

R8.1 : System provides facility to add jobs.

**Input:** Job details.

**Output :** post jobs on company's profile and save into database.

R8.2 :System provides facility to delete job.

**Input:** Job details.

**Output :** Delete from database.

R8.3 : System provides facility to edit job.

**Input:** Job details.

**Output :** Save changes into database.

#### **4.9 System provides facility to see the aspirant's profile and select for job.**

R9.1 : System provides facility to see the aspirants profile.

**Input:** aspirant name.

**Output :** Display profile.

R9.2 : System provides facility to select aspirants for particular job.

**Input:** aspirant name, details of details of meeting.

**Output :** Send notification to aspirant

## **5 Other Non-Functional Requirements**

### **5.7 Performance Requirement**

#### **5.7.1 Performance**

The system must be interactive and the delays involved must be less .So in every action-response of the system, there are no immediate delays. In case of opening windows forms, of popping error messages and saving the settings or sessions there is delay much below 2 seconds, In case of opening databases, sorting questions and evaluation there are no delays and the operation is performed in less than 2 seconds for opening ,sorting, computing, posting > 95% of the files. Also when connecting to the server the

delay is based editing on the distance of the 2 systems and the configuration between them so there is high probability that there will be or not a successful connection in less than 20 seconds for sake of good communication.

### **5.7.2 Safety**

Information transmission should be securely transmitted to server without any changes in information.

### **5.7.3 Reliability**

As the system provide the right tools for discussion, problem solving it must be made sure that the system is reliable in its operations and for securing the sensitive details.

## **5.8 Safety and Security Requirement**

- For functional requirements like user log in the system, there should be mechanism to prevent SQL injection.

## **5.9 Software Quality Attributes**

### **5.9.1 Availability**

If the internet service gets disrupted while sending information to the server, the information can be send again for verification.

### **5.3.2 Security**

The main security concern is for users account hence proper login mechanism should be used to avoid hacking. Hence, security is provided from unwanted use of recognition software

### **5.3.3 Usability**

As the system is easy to handle and navigates in the most expected way with no delays. In that case the system program reacts accordingly and transverses quickly between its states.

## **5.10 Business Rules**

- The job seeker does not have to worry about finding jobs though his profile is very good.
- Other procedure of hiring after selecting aspirants, should be done manually by company