
Software Requirements Specification

for

Online Job Portal

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Software Requirements Specifications (SRS) for Online Exam Portal

1. Introduction

1.1 Purpose

The purpose of this Software Requirements Specifications (SRS) is to fully document the specifications and requirements for the Online Job Portal. The audience of this SRS will be the clients who want the software to be built and the technical professionals developing the software.

1.2 Scope

Online job portal project is aimed at developing or building an online search Portal for jobs application for job seekers. The system project is an online web application which can be accessed anywhere only with proper login provided. The system will be used as an Online Job Portal for job seekers. Job Seekers should be able to login and upload their Curriculum Vitae (CV). Companies and organizations may also login and access or search any information uploaded by Job searchers.

1.3 References

The following material was used in creating this document:

- IEEE Std 830-1998, IEEE Recommended Practice for Software Requirements Specifications.

1.4 Overview

The rest of the SRS is organized as follows:

- Section 2 is an overall description of the project.
- Section 3 cites the specific requirements.

2. Overall Description

2.1. Product Perspective

This product is a completely new software. It is not a component of a larger system.

The Online Job Portal will interact with multiple users like employers, jobseeker and administrator. The portal will also interact with database for various operations and functioning of the website with sessions working for different users.



2.2. Product Features

The following list of function descriptions explains the major features of the Online Examination System.

2.2.1. Account Registration

The registration function shall allow user to save their information.

The information will validate users while registration with valid credentials.

Rationale: This function is used by jobseeker and employers in a company, so they are valid via otp send on their email.

2.2.2. Account Login

The login function shall allow user with valid credentials.

The information will be check via database and redirect them to dashboard.

Rationale: This function is used by jobseekers, employers, and administrator. If user forget password, he can check via security question asked while registration.

2.2.3. Update Information

The update function shall allow user to update information.

The information will update into the database by authenticated user.

Rationale: This function is mostly used by administrator who will change as per the requirements or feedbacks received to them by validate users.

2.2.4. Dashboard

The dashboard function is to show overall features and handy buttons.

Rationale: This will be different for jobseeker, employers, and administrator with various features

2.2.5. Search

The search function shall allow user to search for jobs to apply.

The search function is used by jobseeker where he can get know about the jobs.

Rationale: Additionally, this is used by employers to get know about the list of applicants for that position.

2.2.6. View

The view function shall allow user to view Job.

After jobseeker login successfully, here user can view any kind of jobs present in portal.

Rationale: This function can also be useful for employer to view job applicants.

2.2.7. News**The news function shall allow user to view news.**

This will be helpful for user to be updated with current cycle of news.

Rationale: This function will be also used for employer to add, modify, and delete news in portal.

2.2.8. Delete**The delete function shall allow administrator to delete the user.**

This will be helpful for administrator to check whether authenticated user is log to the system.

Rationale: This function will be also used to delete news on dashboard.

2.2.9. Logout**The logout function shall allow user to logout of session.**

This session will be destroyed when click on logout button. The current session ends, and the user is redirected to a mashup or a URL.

2.2.10. Help**The help function shall give the user an overview of how to use the different functions listed above.**

Rationale: This allows the user to get answers to immediate questions on using the website.

2.3. User Characteristics

Users of the website must possess a minimal educational level which confirms to Examination standards. Users of the website must know how to navigate in a website.

2.4. Assumptions and Dependencies

Since the Job portal is only accessible through the Internet, it is assumed that the end user has a connection to the Internet. It is also assumed that the user has a web browser able to display the website. (I.E. Firefox or compatible browser)

2.5. Apportioning of Requirements

There are no requirements that may be delayed until future versions of the system.

3. Specific Requirements

3.1.External Interface Requirements

3.1.1. System Interface:

The System will interface with the following systems:

1. The online test database: The system will interact with the database to register test questions from teacher on portal for students to later give the following test.
2. Students Registration database: To record the information of students their test score/results.

3.1.2. User Interface:

The system will provide the ability to Jobseeker and the Employeer to access the Online Test Portal via the Internet. There would be three different user interface that would go along with this website for:

- Jobseeker
- Employer
- Administrators (Admin)

Jobseeker: will be allowed to login on the site via user validation, jobseeker would be allowed to search for a job on portal and they can submit their Educational Information to the employer to apply for that job. Jobseeker would be able to see News on available job present on site or they can search for the job they want on portal if available they can apply for it. Jobseeker can maintain their profile on portal and can edit it wherever necessary.

Employer: will be allowed to login on site via user validation, Employer shall be allowed to add, delete, and modify jobs on portal. Employer would be able to see the applicant on their dashboard requesting for an interview for that position/jobs. Employer can schedule interview with applicant if necessary.

Administrators (Admin): Admin will be always required to login the system. The admin would have access to all the information about Employer and Jobseeker (except their password). Admin can delete or edit information on database if required for any user present on portal. Admin can delete, add, or modify jobs or news present in portal as well.

3.1.3. Hardware Interface

Processor: Intel Pentium IV, 2.4 GHz.

Ram: 512 MB.

Hard Disk Drive: 40 GB.

Video: 800*600,1024*768 256 colors

3.1.4. Software Interface

Operating system: Window XP, Window 7, Linux.

Front-End: HTML, Java Script, CSS.

Back-End: PHP, MySQL.

Supporting Server: WampServer, XampServer.

3.1.5. Communication Interface

There are no special communication interface requirements.

3.2. Functional Requirements:

3.2.1. Stimulus: Click “Signin” Button: Account Registration

- The system shall allow a non-register user to create a secure account.
- The system shall require the following information from user to create an account.
- The system shall ask the user for a username and password.
- The system shall confirm the username and password are acceptable.
- The system shall store the information in the database.

3.3.2. Stimulus: Click “Login” Button: Account Login

Login button on jobseeker’s dashboard:

- The system shall allow a registered jobseeker to login to their account.
- The system shall require a username and password from the user.
- The system would verify the username id and password and the jobseeker after verification is done the user will be considered logged-in.

Login button on employer’s dashboard:

- The system shall allow a registered employer to login to their account.
- The system shall require a username and password from the employer.
- The system would verify the username id and password and the employer after verification is done the employer(user) will be considered logged-in.

3.3.3. Stimulus: Click “Dashboard” Button: Dashboard.

- Dashboard will display various functions like jobs, news, and search.
- Dashboard will be different for user interface and some of the above mention function would act differently for different user i.e., like view function for jobseeker would show them available jobs in portal while the view function for employer would show them job applicants.

3.3.4. Stimulus: Click “Update” Button: Update Information.

Update button on user’s(jobseeker/employer) dashboard:

- The system shall allow the logged-in user to update their account information on the portal.
- The new information provided by the user would get updated in database.
- The system shall allow the user to change their username, email id, educational information, job requirements and password.
- For change password or for forget password system should ask user a question which was select by user during registration if user’s answer matches then change password should be allowed by the system.

Update button on admin’s dashboard:

- System shall allow admin to update information on portal like jobs, news and user in portal if required.
- System shall allow admin to update portal in future if necessary.

3.3.5. Stimulus: Click “Search” Button: For jobseeker to search for a job.

- The system shall allow a jobseeker to search the job currently present in the portal.
- The system shall allow jobseeker to search job in a particular field (i.e., like in software or hardware field).
- The system shall allow jobseeker to search job according to their qualification.
- System shall display the results of entered query.

3.3.6. Stimulus: Click “View” Button: For jobseeker to view jobs in portal.

View button on jobseeker’s dashboard:

- System shall allow jobseeker to view current jobs available of different companies in portal.
- System shall provide detail information and qualifications requirements of that job.
- System shall allow jobseeker to apply for that job.

View button on employer’s dashboard:

- System shall allow the employer to view the applicant of jobs on their view tab.
- System shall provide detail information of those applicant which are registering for the job.

3.3.7. Stimulus: Click “News” Button: News.

News button on jobseeker’s dashboard:

- System shall allow jobseeker to view current news about different kinds of job present in portal.
- System shall allow jobseeker to browse news in portal with detail information.

News button on employer’s dashboard:

- System shall allow employer to post job related news in portal whenever needed.
- System shall allow employer to modify, add, and delete jobs in portal.

3.3.8. Stimulus: Click “Delete” Button: Delete information/Users.

- System shall allow admin to delete any user(jobseeker/employer) from portal if required.
- System shall allow admin to delete jobs from portal if required.
- System shall allow admin to delete news from portal if required.

3.3.9. Stimulus: Click “Logout” Button: Account logout.

- The system shall allow the registered and logged-in user to exit his/her account, so that access to operations requiring a user to be logged in are now disabled.

3.3.10. Stimulus: Click “Help” Button: Account logout.

- The system shall allow the user to view an overview of how to use the various operation defined above.
- The system should be able to give basic information about the above mention operations.

3.3. Performance Requirements

The performance requirements are as follows:

- System login/logout shall take less than 5 seconds.
- System Adding/Deleting shall return results within 5 seconds.
- Records using API shall be processed within 10 seconds.
- System shall support 10,000 simultaneous users.

3.4. Logical Structure of the Data

The two sections below show the different types of information used by various functions and the overall data model, respectively.

3.4.1. Types of Information Used

The types of information used by various functions of the website:

| Function | Types of Information Used |
|--------------|--|
| Registration | User information (username, address, city, email, mobile, gender, qualification, birthdate, password, security question, answer) |
| Login | User information (username and password) |
| Search | User information (qualification, company, position) |
| Update | User information (id, name, address, city, email, mobile) |
| Delete | System information(news, job) |
| Add | System Information (news, job) |
| Dashboard | System Information(average salary, company) |

3.4.2. Data Model

The following below diagram describes the attributes and types of data that shall be used in the operations.

| Registration | |
|-------------------|---|
| username | Unique, varchar(100) |
| password | 7+ length with 1 upper ,1 lower and digit |
| resume | .pdf(less than 1 MB) |
| birthdate | date |
| city | string |
| mobile | 10 digits , int |
| address | varchar(100) |
| Security question | varchar(50) |

| Login | |
|----------|---|
| username | Unique, varchar (100) |
| password | 7+ length with 1 upper ,1 lower and digit |

| Search | |
|---------------|-------------|
| qualification | string |
| companyname | varchar(50) |
| position | string |

| Delete | |
|----------|--------------|
| news | varchar (50) |
| newsdate | timestamp |

| Update | |
|---------------|--------------|
| companyname | varchar(50) |
| contactperson | varchar(50) |
| address | varchar(100) |
| city | string |
| email | varchar(50) |
| news | varchar(50) |
| newsdate | timestamp |

| Add | |
|----------|--------------|
| news | varchar (50) |
| newsdate | timestamp |

3.5. Design Constraints

The Online Examination System shall conform to the following design constraints:

- Able to support PC, Mac platforms.
- System logs out user after a ten-minute inactivity period.
- System supports all web browsers (i.e., graphical).
- System must allow automatic certificate validation as to enable.

3.6. Software System Attributes

3.6.1. Reliability

The average time to failure shall be 30 days. In the event that a server does crash, a backup server will be up and running within the two hours.

3.6.2. Availability

The Online Examination System shall be available to users 24 hours a day, 7 days a week, with the exception of being down for maintenance no more than one hour a week. If the system crashes, it should be back up within two hours.

3.6.3. Security

Users will be able to access only their own personal information and not that of other users.

3.6.4. Maintainability

Any updates or defect fixes shall be able to be made on server-side computers only without any patches required by the user.

3.6.5. Portability

Not Required.