

# Software Testing Document

**Ayush Shah**  
**Meet Shah**  
**Ameya Tathavadkar**  
**Tanish Shah**

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# 1 Introduction

## 1.1 System Overview

Warehouse managers constantly try to optimize the amount of staff they employ and ensure that employees are productive. If warehouse managers have too many employees, and not enough work, then they have to pay employees to wait for work. If too much work exists and not enough employees are available, customer orders are not shipped on time, or warehouse accuracy suffers. Labor Management enables warehouse managers to track the amount of time each user takes to complete a set of tasks, their work hours, their non-work hours, etc. It records this information at both specific and generic levels. It records the task type, material transacted, and source and destination locations.

The system has a recruitment model where each new labourer can register themselves to apply for a job and they are selected based on an their capabilities and a series of procedure. After Labor Management records the information, it analyzes it for two primary purposes, employee management and employee evaluation. Because the system knows the amount of time and expected work required to complete each task, it can predict how much time or staff is necessary to complete the work in the warehouse. Employee evaluation compares the time performance of employees against their colleagues or engineered standards for labor productivity, and rates employees on their performance level. It helps the warehouse manager to make decisions about staffing, compensation, training, and work assignment.

For our Software System we are testing on 5 main items of our project, these 5 items are as follows,

- Log in functionality.
- Sign up functionality.
- Building on resume.
- Searching of company.
- Session.

We are testing on the first and final version of our Labour Management system.

## 1.2 Test Approach

### 1.2.1 Employee Site:

In the Employee Site we are testing on the employee side are Name , login, password and all other fields are Entered in there Standard format ,and which

adds to the database .We will use a proactive method so that we can look through the code for possible errors. We are looking at the data as it is inputted ,and if any issues occur while the data is being added.

### **1.2.2 Company Site:**

In the Company side ,we have to test for the Displaying of Data is done precisely i.e (the no of job candidate company wants and the no that is displayed in the User Interface is same).For the Recruiter side as well ,we will using a proactive approach , by building as quickly as possible and looking for the issues in the code as soon as possible by testing and implementing every feature as needed.

## **2 Test Plan**

### **2.1 Features to be Tested**

1. Login Functionality.
2. Search Bar Functionality.
3. Resume Building Functionality.
4. Session Management Functionality.
5. Registration Functionality.

### **2.2 Features not to be Tested**

#### **2.2.1 Candidate Verification:**

We are not testing whether user who is giving the online test for the corporate job is the same person who is coming for the interview.

### **2.3 Testing tools and Environment**

Testing of the system would require 1 tester. Testing time is one throughout the process of system development. For a web application, testing would require 2 / 3 desktops. The desktop would have to be installed with required XAMPP and PHPMyAdmin functionality. The desktops should also have a good enough IDE like sublime Text etc. For testing the user interface, we can use any browser like chrome or Mozilla Firefox. There would be a requirement for LAN or any other network connection between the desktops.

### **3 Test Cases**

#### **3.1 Test Case 1-TC001 : Testing of the registration form**

##### **3.1.1 Purpose**

To apply for the desired job.

##### **3.1.2 Inputs**

username, email, password, Retype password, name, photo.

##### **3.1.3 Expected Outputs**

If all the details are valid then it will redirect to home page else it will redirect to error page.

##### **3.1.4 Passing Criteria**

If the user has entered valid details in the registration form .Then the user may be given access to create resume, login whenever he/she wants .the user can apply for the job or recruit candidates depending upon the login.

##### **3.1.5 Failing Criteria**

The user cannot login or register due to invalid details. The page is redirected to error page and asks the user to register again with valid details.

##### **3.1.6 Procedure**

To check the validity of the user we generate a test input and check the following. The password ,username , email id, Retype password and the data should be added in the database .When all the conditions are satisfied only then the user has to be allowed to proceed .If he registers successfully he/she must be directed to the home page or direct to error page should be displayed.

#### **3.2 Test Case 2-TC002 : Testing the Log In functionality**

##### **3.2.1 Purpose**

To verify the authenticity of the user.

##### **3.2.2 Inputs**

Email id,Password

##### **3.2.3 Expected Outputs**

In input is valid then the user is redirected to the home page else he is redirected to a error page.

#### **3.2.4 Passing Criteria**

Whenever any user tries to access the website he/she should be granted access only if the user has first registered on our website. Domain entered should be valid and correct email and password is entered.

#### **3.2.5 Failing Criteria**

Domain entered is incorrect or email or password is invalid.

#### **3.2.6 Procedure**

To check the validity of the user we generate a test input and check the following. The password or email id of the user should match with the one in the database (stored after registering). The correctness of the email id is determined by checking the value and the domain of the email. When both conditions are satisfied only then the user has to be allowed to proceed. If he logs successfully he must be directed to the next page or error message/page should be displayed.

### **3.3 Test Case 3-TC003 : Testing the search functionality**

#### **3.3.1 Purpose**

To provide the user with easy browsing.

#### **3.3.2 Inputs**

Search Query.

#### **3.3.3 Expected Outputs**

The page displaying the filtered results.

#### **3.3.4 Passing Criteria**

The results match with the query entered by the user. I.e If the User enters the location Mumbai the output should be jobs only in Mumbai.

#### **3.3.5 Failing Criteria**

The display page is not in accordance with search query.

#### **3.3.6 Procedure**

We can test and analyze the results generated by search queries. The website allows the user to search for field of interests on the basis of company name, location or vacancy in post. Thus whenever any of the user inputs a value in the search box the result which is displayed should be in accordance with input entered by the user. Only then we can say that this functionality is executed

properly. The only precondition for this test case is that the user must have logged into his account.

### **3.4 Test Case 4-TC004 : Testing the Resume functionality**

#### **3.4.1 Purpose**

To enable the user to create his/her own resume.

#### **3.4.2 Inputs**

Personal Information, Contact Information, Biography, Job Experience and Education

#### **3.4.3 Expected Outputs**

Web page displaying the resume consisting of values consistent with those entered by the user.

#### **3.4.4 Passing Criteria**

Display resume shows the data which was entered during building the resume.

#### **3.4.5 Failing Criteria**

The resume displayed is inconsistent with the data which was entered during creation.

#### **3.4.6 Procedure**

Our website allows the users to build a resume online and post it directly on the website. The user can enter fields like Personal Information, Contact Information,

Biography, Job Experience and Education. The content which the user entered while building the resume must be the one which is displayed on his resume page. There should not be any loss or corruption of data while building the resume. Also if the user updates his resume it should be recorded and retrieved from the records correctly. The precondition is that the user must be logged in to avail this functionality.

### **3.5 Test Case 5-TC005 : Testing of session management**

#### **3.5.1 Purpose**

To check if the user is logged in even after terminating the browser.

#### **3.5.2 Inputs**

The user should have entered Login and password.



### **3.5.3 Expected Outputs**

If all the details are valid then it will redirect to home page else it will redirect to error page.

### **3.5.4 Passing Criteria**

The person should not log in again after visiting that website.

### **3.5.5 Failing Criteria**

The person has to log in after visiting that website.

### **3.5.6 Procedure**

If the user presses on close tab when he/she is still logged in, then he should not be logged out when he redirects the page to our website. Precondition for this test case is that the user must be logged in.

## **4 Test Logs**

### **4.1 Case 1: TL0001**

Each new user who has registered on the website is given a unique user-name or id for the login process. All the details were successfully stored in the database.

### **4.2 Case 2: TL0002**

User Authorization is successfully validated. The input entered by the user is successfully verified with the information in the database.

### **4.3 Case 3: TL0003**

The search query entered is successfully stored and processed in the database. After processing webpage displayed is consistent with the search query.

### **4.4 Case 4: TL0004**

Information entered in the respective fields for building resume are entered in the format expected. After filling the complete form the resume is build if and only if all the fields are filled in the properly. And the data is entered in the Database.

## 5 Test Results

ID	Precondition	Description	Input	Pass/Fail	Expected Output	Actual Output	Pass/Fail
1	<ul style="list-style-type: none"> <li>The user should be above 18.</li> <li>For a Corporate job the user should complete his/her graduation from a known College.</li> <li>The company should be authentic and must be registered</li> </ul>	There are 2 logins in this project:- 1)company Login 2)Candidate Login In sign in the form is accepted only if the company and candidate has entered Username, name, password, valid retype password, E-mail	<u>Login</u> a)username Eg. flipkart_job b) email: Valid..Eg. Flipkartjob@gmail.com invalid:flipkartjob@gmail.com c) password: valid: Eg ***** Invalid:*** d)Retype password Eg ***** e) name: Eg. Flipkart f)photo Eg.myphoto.png	Passing criteria- 1)Username should Be unique. 2) password should be more than 6 characters.	Home page	Home page	Pass
						Error page	Fail
				Failing criteria- Password and 1)Retype password not matching. 2)photo size greater than 100MB.	Back to Sign in page.	Sign in page	Pass
						Error page	Fail
5	The user must be logged in.	The user should not be logged out of the website after terminating the browser.	When the User clicks on the close tab ,even though the person is logged in.	Passing Criteria- The person should not log in again after visiting that website.	Home page	Home page	Pass
				Failing Criteria- The person has to log in after visiting that website.	Login-page	Login-Page	Fail

Id	Precondition	Description	Input	Pass/Fail	Expected o/p	Actual o/p	Status
2	User must be registered.	Log in- The user must be able to Log into his account	a)Valid i/p Email- abc@gmail.com Password- ****	Passing criteria- Domain entered should be valid and correct email and password is entered	Next Page	Next page	Pass
			b)Invalid i/p Email- abc@xyz.adf	Failing criteria- Domain entered is incorrect or email or password is invalid	Error Page	Error	Fail
						Valid Page	Fail
						Error Page	Pass
3.	User must have logged in.	Search functionality- The user must be able to search for the company where he wishes to apply	Company Name or Location or Position vacancy	Passing criteria-The results match with the query entered by the user.	Correct Company Listings	Correct Company Listings	Pass
				Failing criteria- The results do not match <del>wrt</del> the search query	Incorrect Company Listings	Incorrect Company Listings	Fail
						Incorrect Company Listings	Pass
						Correct Company Listings	Fail

4.	User must have logged in.	Resume building- After creating the resume it should be displayed correctly	Personal Information, Contact Information, Biography, Job Experience, Education	Passing criteria- Display resume shows the data which was entered during building the resume	Valid resume is displayed	Valid resume is displayed	Pass
						Invalid resume is displayed	Fail
				Failing criteria- The resume displayed is inconsistent with the data which was entered during creation.	Invalid Resume is displayed	Valid resume is displayed	Fail
						Invalid resume is displayed	Pass