Test Plan

Job Search System

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Problem Statement:

To test Job Search System Modules using Black-box and White-box testing covering Unit and Integration test by using JUnit testing tool.

System Modules:

- 1. Insert Company
- 2. Show Company Details
- 3. Search Candidate
- 4. Insert Candidate
- 5. Search Company

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1.0 INTRODUCTION

The application "Job Search" provides an easy and convenient search application for job seekers to find their desired jobs and for the recruiters to find the right candidate. Job seekers can register with the application and update their details and skill set. Employer can register with the application and post their current openings. They can view the Job applications and can screen them according to the best fit.

2.0 OBJECTIVES AND TASKS

2.1 Objectives of Test Plan

- Finding defects which may get created by the programmer while developing the software.
- Gaining confidence in and providing information about the level of quality.
- To prevent defects.
- To make sure that the end result meets the business and user requirements.

2.2 Tasks of Test Plan

- Identifying and describing appropriate test techniques.
- · Verify and assess the Test Approach.
- Execute the tests, Log results, Report the defects.

Sr. No.	#Business Requirements (BR)	#Functional Requirements (FR)	#Test Scenarios (TS)	#Testing Approaches /Strategies (TA)
01	Provide a way to the company to display their skills and marks required.	Candidates must be displayed after validating the marks and skill set.	Insert company, Show details, Search candidates	1.Functional Testing (Standard Testing)
02	Provide a way for the candidates to search for the best company that matches their skill set and marks required.	Best company must be displayed after validating the marks and skill set of the company.	Insert candidate, Search Company	

3.0 SCOPE

The Job Search System will act as a bridge of communication between company and the candidates. It will help to reach a wide range of audience. This system will provide searching of eligible candidates and search for company that matches skills and marks required without any manual checking.

4.0 TESTING STRATEGY

Approach	Type of Testing	Manual Testing		Automated Testing on Device	Tools/APIs/Libraries
		Using Device	Using Emulator		
Standard Testing	Unit Testing	Yes	Yes	Yes	
(Functional Testing)	Integration Testing	Yes	Yes	Yes	
r county)	Acceptance Testing	Yes	Yes	No	Junit (Unit Testing Framework)
Special Type of Testing to Address Specific Challenge	Compatibility Testing	Yes	Yes	Yes	

4.1 UNIT TESTING

Definition:

Each module that is developed by group members will to be tested individually to verify proper operation so that any faulty module can be fixed immediately rather than let it exist and then cause some major issue in the integration phase.

Participants:

Deepak Kadam, Arisha Chamadiya, Swati Patra

Methodology:

During this testing, the test team brainstorms the scope of testing, test strategy and drafts a detailed test plan.

MODULE/FUNCTIONALITY	Test database connection
NAME:	
UNIT/CLASS:	Database
CREATED BY:	Deepak Kadam
DATE OF CREATION:	06/08/2019
DATE OF REVIEW:	10/08/2019

TEST CASE ID	TEST UNIT/CLASS	TEST CASE	PRE- CONDITION	EXPECTED RESULT	ACTUAL RESULT	STATUS (PASS/FAIL)
1	Database	Validate	JDBC driver	Not null	Not null	Pass
		DBMS	should be			
		Connection	present			

Execution Status: Completed

MODULE/FUNCTIONALITY	Insert Company test
NAME:	
UNIT/CLASS:	InsertCompany
CREATED BY:	Swati Patra
DATE OF CREATION:	06/08/2019
DATE OF REVIEW:	10/08/2019

TEST CASE ID	TEST UNIT/CLASS	TEST CASE	PRE- CONDITION	EXPECTED RESULT	ACTUAL RESULT	STATUS (PASS/FAIL)
1	InsertCompany	Insert	Database	Company details	Company	Pass
		company	connection	inserted into the	details inserted	
		details in the	should be	database	into the	
		database	established		database	

Execution Status: Completed

MODULE/FUNCTIONALITY Display entries from database	
NAME:	
UNIT/CLASS:	Display
CREATED BY:	Arisha Chamadiya
DATE OF CREATION:	06/08/2019
DATE OF REVIEW:	10/08/2019

TEST CASE ID	TEST UNIT/CLASS	TEST CASE	PRE- CONDITION	EXPECTED RESULT	ACTUAL RESULT	STATUS (PASS/FAIL)
1	Display	Display company entries	Company details should be present in the database	Company list	Company list	Pass

Execution Status: Completed

MODULE/FUNCTIONALITY	Search for candidates
NAME:	
UNIT/CLASS:	SearchCandidate
CREATED BY:	Arisha Chamadiya
DATE OF CREATION:	06/08/2019
DATE OF REVIEW:	10/08/2019

TES T CAS E ID	TEST UNIT/CLASS	TEST CASE	PRE- CONDITION	EXPECTED RESULT	ACTUAL RESULT	STATUS (PASS/F AIL)
1	SearchCandi	Display	Candidate	Arisha	Arisha	Pass
	date	candidates	details should be present in the database	Deepak	Deepak	

Execution Status: Completed

MODULE/FUNCTIONALITY	Insert Candidate details
NAME:	
UNIT/CLASS:	InsertCandidate
CREATED BY:	Swati Patra
DATE OF CREATION:	06/08/2019
DATE OF REVIEW:	10/08/2019

TEST CASE ID	TEST UNIT/CLASS	TEST CASE	PRE- CONDITION	EXPECTED RESULT	ACTUAL RESULT	STATUS (PASS/FAIL)
1	InsertCandidate	Insert	Database	Candidate	Candidate	Pass
		candidate	connection	details inserted	details inserted	
		details in the	should be	into the	into the	
		database	established	database	database	

Execution Status: Completed

MODULE/FUNCTIONALITY	Search for company
NAME:	
UNIT/CLASS:	SearchCompany
CREATED BY:	Deepak Kadam
DATE OF CREATION:	06/08/2019
DATE OF REVIEW:	10/08/2019

TEST CASE ID	TEST UNIT/CLASS	TEST CASE	PRE- CONDITION	EXPECTED RESULT	ACTUAL RESULT	STATUS (PASS/FAIL)
1	SearchCompany	Searching for companies in the database based on candidate's constraints	Company Details should be present	TCS	TCS	Pass

Execution Status: Completed

4.2 INTEGRATION TESTING

Definition:

Integration is a level of software testing where individual units are combined and tested as a group. The purpose of this level of testing is to expose faults in the interaction between integrated units.

Participants:

Deepak Kadam, Arisha Chamadiya, Swati Patra

Methodology:

Initially we are integrating all resource files then we are testing all integrated modules with JUnit framework

PROJECT NAME:	Job Search System	
MODULE/FUNCTIONALITY:	Linked Resources Testing	
CREATED BY:	Deepak Kadam	
DATE OF CREATION:	11/08/2019	
DATE OF REVIEW:	14/08/2019	

4.3 USER ACCEPTANCE TESTING

Definition:

The purpose of acceptance test is to confirm that the system is ready for operational use. During acceptance test, end-users (customers) of the system compare the system to its initial requirements.

Participants:

Users

Methodology:

This testing done with the help of users of the system. User is the one who will test the project.

PROJECT NAME:	Job Search System
MODULE/FUNCTIONALITY:	Validate Input Fields
CREATED BY:	Deepak Kadam, Swati Patra, Arisha Chamadiya
DATE OF CREATION:	15/08/2019
DATE OF REVIEW:	19/08/2019

ID	Test	Test Step # Test Steps Exp. Results		Exp. Results	#Business	#Functional
ID	Description	Step#	rest steps	Exp. Results	Req. Covered	Req. Covered
1	Validating all	-	1) If one of the fields is	Text field	Username and	Login
	the entries		empty, it will give an	constraints	password are	credentials has
			alert message that all	and user	being verified	been validated
			entries are compulsory	credentials	using Java	through
			2) Input type will be	are validated	String functions	database
			validated			

5.0 HARDWARE REQUIREMENTS

- RAM 1024MB+
- Intel Core i3 Processor

6.0 ENVIRONMENT REQUIREMENTS

6.1 Main Frame

- Operating Platform (Any Operating System)
- Java Technology
- JUnit Testing Framework libraries

7.0 TEST SCHEDULE

Task Name	Start Date	Finish Date	Effort	Comments
			Estimation	
Test Planning	16/07/2019	04/08/2019		Test Cases
rest Flaming				Formed
Review Requirements documents	16/07/2017	20/07/2019	05 d	
Create initial test estimates	21/08/2019	4/08/2019	15 d	
Unit Testing	06/08/2019	10/08/2019	6d	Modules Tested
Integration testing	11/08/2019	14/08/2019	4d	Successful
User Acceptance Testing	15/08/2019	19/08/2019	5d	Successful
Resolution of final defects and final build	20/08/2019	23/08/2019	4d	Defects Found
testing				

8.0 FEATURES TO BE TESTED

- Login text fields validation
- Database fetching
- User credentials should be tested

9.0 RESOURCES/ROLES & RESPONSIBILITIES

- 1. Deepak Kadam Unit Testing
- 2. Arisha Chamadiya Integration Testing
- 3. Swati Patra User Acceptance Testing

10.0 DEPENDENCIES

• JDBC Libraries

11.0 TOOLS

- JUnit testing framework
- Eclipse IDE

12.0 APPROVALS

Ms. R. M. WAHUL

Defect Report

ID	1
Project	Job Search System
Product	Job Search System
Release Version	1
Module	Database
Detected Build	1
Version	
Summary	Missing JDBC MySQL component
Description	Connection to the MySQL database fails due to absence of important JDBC
	component
Steps to Replicate	Try to establish a connection to the database using DriverManager without
	including the JDBC connector JAR file
Actual Result	ClassNotFoundException thrown
Expected Results	Database connection established successfully
Defect Priority	HIGH
Reported By	Group Members
Assigned To	Group Members
Status	Solved
Fixed Build	2
Version	