### **Practical 9**

### **Aim: Design the Test Cases for software domain problem**

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### **Importance of Test Cases**

Test cases are essential in validating the features and performance of an **Online Job Portal System**. They ensure that the platform works reliably for job seekers, recruiters, and admins while maintaining data integrity and user satisfaction.

#### **Key Benefits:**

* **Ensuring System Reliability**: Detects bugs before live use.
* **Validating Business Logic**: Confirms that job applications, postings, and notifications behave correctly.
* **Enhancing User Experience**: Identifies usability issues for smooth navigation.
* **Security Assurance**: Verifies authentication, authorization, and data protection.

### **Test Case Components**

Each test case includes:

* Test Case ID
* Title
* Description
* Preconditions
* Steps to Execute
* Expected Result
* Actual Result
* Status (Pass/Fail)

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## **Test Cases for Online Job Portal System**

### **Test Scenario 1: User Authentication**

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| **#** | **TEST CASE 1** |
| **Title** | User Registration Functionality |
| **Description** | Test the registration functionality of the online recruitment system. |

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| **Test ID** | **Description** | **Input** | **Expected Output** | **Pass/Fail** |
| REG001 | Verify that users can successfully register with valid information. | Name, password, Email, Mobile No., Aadhar No. | Registration Successful. | Pass |
| REG002 | Confirm that registration confirmation emails are sent promptly. | E-mail ID | Confirmation Email received by the user. | Pass |
| REG003 | Test for the handling of incorrect login attempts, including password resets. | Too many incorrect login attempts and password resets. | Error message: “Too many incorrect attempts, please try again later”. | Pass |
| REG004 | Check for multi-factor authentication. | Multi-factor Authentication | Authentication Successful. | Pass |

### **Test Scenario 2: Job Search and Application**

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| **#** | **TEST CASE 2** |
| **Title** | Job Application Process |
| **Description** | Test whether a user can successfully submit a job application. |

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| **Test ID** | **Description** | **Input** | **Expected Output** | **Pass/Fail** |
| JA001 | Verify that users can upload their resumes and cover letters. | PDFs containing resume and cover letters. | Documents uploaded Successfully. | Pass |
| JA002 | Ensure that confirmation emails are sent to applicants. | E-mail ID | Confirmation Email sent successfully. | Pass |
| JA003 | Test the application status tracking for users (e.g., pending, rejected, hired). | Application Status. | Application pending/rejected/accepted. | Pass |
| JA004 | Confirm that users can withdraw job applications if needed. | Withdraw Application. | Job application removed. | Pass |

### **Test Scenario 3: Job Posting by Company**

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| **#** | **TEST CASE 3** |
| **Title** | Company Interaction |
| **Description** | Verify that a company can successfully post a job. |

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| **Test ID** | **Description** | **Input** | **Expected Output** | **Pass/Fail** |
| CI001 | Verify that a company can create and post a new job successfully. | Job title, description, requirements, and location entered. | Job post is successfully created and visible to job seekers. | Pass |
| CI002 | Confirm that job posts can be edited after they have been published. | Edit existing job details (title, description, etc.). | Changes are saved and updated in the job listing. | Pass |
| CI003 | Test if a company can close or remove a job posting once the position is filled. | Select an active job posting to close. | Job posting is no longer visible to job seekers. | Pass |
| CI004 | Ensure the company receives applications submitted for a posted job. | Job seekers apply to the job. | Company receives candidate applications in the dashboard. | Pass |
| CI005 | Verify that a company can view and filter applications based on criteria (e.g., skills, experience). | View job applicants and apply filters. | List of applicants is filtered based on the selected criteria. | Pass |

* **Test Scenario 4: Skill test Integration**

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| **#** | **TEST CASE 4** |
| **Title** | Candidate Assessment |
| **Description** | Test the integration of skill tests during the recruitment process. |

### **Conclusion**

These test cases ensure the smooth and error-free functioning of the Online Job Portal System. Comprehensive testing reduces the risk of failures, enhances system reliability, and delivers a better

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| --- | --- | --- | --- | --- |
| **Test ID** | **Description** | **Input** | **Expected Output** | **Pass/Fail** |
| SKT001 | Verify that users can access and complete skill tests after applying for a job. | Job application followed by skill test attempt. | User can access and complete the skill test successfully. | Pass |
| SKT002 | Confirm that skill test results are correctly submitted and recorded. | Completed skill test with answers submitted. | Results are recorded in the system and visible to the employer. | Pass |
| SKT003 | Test if users receive a notification to complete the skill test after applying for a job. | Job application submitted. | Notification sent to the user’s email or dashboard to complete the skill test. | Pass |
| SKT004 | Check the ability to retake the skill test if the user fails or experiences technical issues. | Failed skill test or reported issue. | User can retake the skill test within the allowed time frame. | Pass |
| SKT005 | Ensure skill test scoring is accurate and reflects candidate performance. | Completed skill test with answers. | System calculates the score correctly and presents it to the candidate and employer. | Pass |