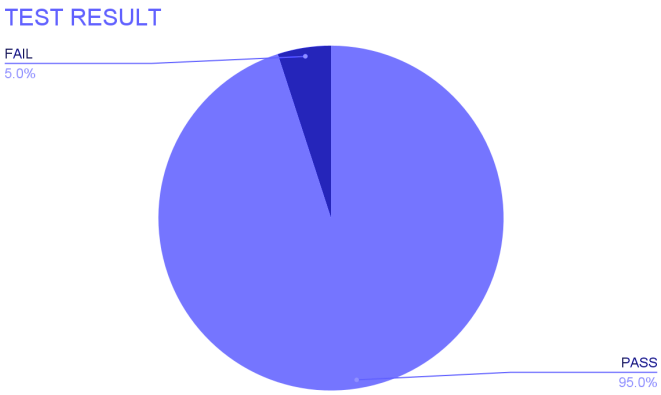
Test Report: Workplace Search Functionality



Test Case planned	Test Case executed	Test Case passed	Test Case failed
22	22	20	22

Defect & Severity Status

	Critical	**Major**	**Minor**	**Cosmetic**
Open	0	0	2	0
Closed	2	0	0	0

Test Objective –

The primary objective of this testing task is to analyze the requirements provided and design an optimal set of test data and test cases for the web-form used to search available workplaces. The goal is to ensure the functionality of the system

meets the specified criteria, and the testing approach is efficient and effective in terms of time and effort.

Areas Covered –

Web-Form Attributes:

- Date Attribute:
  - Valid date formats.
  - Handling of invalid date inputs.
  - Boundary conditions for dates.
- Floor Attribute:
  - Valid floor numbers.
  - Handling of invalid floor inputs.
  - Boundary conditions for floor numbers.
- Equipment Attribute:
  - Valid selection of equipment.
  - Handling of empty or minimal equipment selections.
  - Testing for multiple equipment selections.
- Smoking Restrictions Attribute:
  - Validation of smoking restrictions options.
  - Confirming system behavior based on selected smoking restrictions.

Search Functionality:

- Valid Search Criteria:

        - Testing various valid combinations of date, floor, equipment, and smoking restrictions.
        - Ensuring accurate and relevant search results.
    - Minimal Search Criteria:
        - Handling of searches with minimal or no criteria.
        - Confirmation of system response and result set.
    - Invalid Search Criteria:
        - Testing the system's behavior when encountering invalid or non-existent attributes.
        - Ensuring appropriate error handling and messaging.

Efficiency and Effectiveness:

- Coverage Assessment:
    - Evaluate the efficiency of the testing approach by achieving comprehensive coverage with a reasonable number of test cases.
    - Identify areas of redundancy or gaps in coverage.
- Effectiveness of Test Cases:
    - Assess the effectiveness of test cases in identifying potential issues or deviations from the requirements.
    - Verify that each test case contributes meaningfully to the overall coverage.

Optimization:

- Test Data and Cases Optimization:

        - Optimize test data and cases to achieve thorough coverage without unnecessary redundancy.
        - Streamline the testing approach for maximum effectiveness.

Assumptions and Dependencies:

- Assumption Verification:
    - Verify assumptions, including the accuracy of the provided mockup and the correct interaction between the web-form and the backend system.

Review and Approval:

- Stakeholder Review:
    - Subject the test objective to review and approval by relevant stakeholders.

Areas Not Covered –

Integration Testing:

- Testing interactions with external systems or databases.
- Verifying the seamless integration of the web form with the entire system.

Testing Approach –

The testing approach focused on requirements analysis and coverage of a workplace search web-form, involves a systematic process to ensure comprehensive testing. The approach includes the following key steps:

Requirements Understanding:

- Thoroughly review the provided requirements, including the mockup and description of the workplace search web-form.
- Seek clarification on any ambiguities or uncertainties in the requirements.

Test Data Identification:

- Identify relevant and diverse test scenarios based on the attributes of the workplace, such as date, floor, equipment, and smoking restrictions.
- Consider positive, negative, and boundary test cases to cover a wide range of conditions.

Test Case Design:

- Created detailed test cases for each identified scenario, outlining the input data, expected results, and steps to execute the test.
- Structure test cases to cover different aspects of the workplace search functionality.

Boundary Value Analysis:

- Applied boundary value analysis to test scenarios with limits, ensuring that the system behaves correctly at the edges of acceptable ranges.

Equivalence Partitioning:

- Applied equivalence partitioning to group input conditions and design test cases that represent each partition.

Error Guessing:

- Applied an error guessing technique to anticipate potential errors or issues based on the nature of the workplace search functionality.

Traceability Matrix:

- Created a traceability matrix to establish a clear mapping between test cases and the corresponding requirements, ensuring comprehensive coverage.

Assumptions and Constraints:

- Clearly documented any assumptions made during the test design process.
- Identify constraints, such as limitations in access to certain functionalities.

Test Environment Setup:

- Prepared the test environment with the necessary configurations to simulate the workplace search web-form.

Execution and Validation:

- Executed the designed test cases in the test environment.
- Validated the actual results against the expected results.

Defect Reporting:

- Report any discrepancies or defects found during the testing process, providing detailed information for developers to address issues.

Platform Details :

Tested on multiple browser like chrome , firefox and mozilla

Bad Requirements :

- System shall allow searching only for the date range that is not in the past

  User should get option to search past date also

- System shall provide search results without delay.

  A delay of 5 sec 10 sec is common if there is a big data being returned into the result . A minimum time is required to fetch data from the server.

Overall Summary –The testing initiative focused on a systematic analysis of workplace search requirements, ensuring comprehensive coverage through diverse test scenarios.

Key highlights include:

- Thorough understanding of requirements and mockup.
- Identification of relevant test scenarios and data.
- Detailed test case design using various testing techniques.
- Traceability matrix for clear mapping of test cases to requirements.
- Peer reviews for feedback and gap identification.
- Assumptions and constraints documented.
- Test environment set up with necessary configurations.
- Execution, validation, and defect reporting.
- Comprehensive documentation maintained for future reference.
- Feedback loop established for continuous improvement.

This approach ensures the reliability and quality of the workplace search functionality, contributing to overall system robustness.