

ASSESSMENT OF MANUAL TESTING

TASK2: ROUGH Estimation with WBS for Test Activities of TASK1 and TASK2

Version: 2.0

➤ **Test Planning and control:**

a. Test objectives:

1. Search web-form is used for searching of available workplaces in an organization. Each workplace has the following attributes: date, floor, list of equipment and smoking restrictions. These attributes are also used as search criteria.
2. The new increment of an application described in previous task will contain many new features that will extend already existing functionality. The following features are added to the project plan for a new version:
 - User registration
 - Booking of the office place
 - User roles (user and office manager roles) - Native mobile application

b. Scope of Testing:

- Search Workplaces
- Booking a Workplace
- Canceling workplace
- User Registration
- Mobile Application Usage
- Managing Work Places
- Managing Work Places
- Creating New Work Places

c. Testing Types and Tools:

- Unit Testing
- Smoke testing
- Functional testing
- Integration Testing
- System Testing
- User Acceptance testing
- Regression Testing
- API testing

Operating systems: Windows, Android

Browsers: Chrome, Firefox, Safari

Database systems: SQL Server

Tools: Postman, Jmeter

d. Estimate resource requirements for Testing.

e. Duration: 25 hours.

➤ **Analysis and design:** Analyze Requirement and create test scenarios, test data and test cases for:

- Search Workplaces
- Booking a Workplace
- Canceling workplace
- User Registration
- Mobile Application Usage
- Managing Work Places
- Managing Work Places
- Creating New Work Places

Duration: 45 hours

➤ **Implementation and execution:**

- Prepare test environment with required configurations for QA.
- Execute Test Cases
- Find Bug and report bug in reporting tool

Duration: 75 hours

➤ **Evaluating Exit Criteria and Reporting:**

- Execute test cases and record results.
- Test case execution report
- Defect Report and Tracking Sheet
- Test Summary Report
- Test Progress report
- Test Coverage Report

Duration: 40 hours

➤ **Test Closure:**

1. Conduct a final review of testing activities to ensure that all requirements have been met.
2. Obtain sign-off from stakeholders indicating acceptance of the tested features.
3. Document lessons learned and recommendations for future testing efforts.

Customer Benefits:

- Clear understanding of the system's search functionality, newly added Workplace Management features and its adherence to requirements.
- Identification and resolution of any defects or issues prior to deployment.
- Assurance of a user-friendly and efficient search interface.

By following this approach, we can efficiently and effectively test the functionality of the web-form for searching available workplaces and newly added features for Workplace management, ensuring that it meets the specified requirements and delivers a satisfactory user experience.

Use Cases of User Stories for User in Task2

1. Booking Working Places:

As a user, I want to book available working places for the future so that nobody could take the place.

Use Cases:

- A. Users should be able to view available working places.
- B. Users should be able to select a specific date and time for booking.
- C. Users should receive confirmation upon successful booking.

2. Canceling Booking:

As a user, I want to have the ability to cancel booking so that another user could book it instead.

Use Cases:

- A. Users should be able to view their booked working places.
- B. Users should be able to cancel a booking.
- C. Upon cancellation, the working place should become available for booking again.

3. User Registration:

As a user, I want to register into the system so that I can view working places I have booked.

Use Cases:

- A. Users should be able to register with unique credentials.
- B. Registered users should have access to view their booked working places.

4. Mobile Application Usage:

As a user, I want to use the mobile application for system usage so that I can do it anytime.

Use Cases:

- A. The system should have a native mobile application.
- B. Users should be able to perform all functionalities seamlessly on the mobile application.

5. Managing Working Places:

As an office manager, I want to manage working places so that the system provides valid up-to-date information to system users.

Use Cases:

- A. Office managers should have access to add, edit, or remove working places.
- B. Changes made by office managers should reflect immediately in the system.

6. Creating New Working Places:

As an office manager, I want to create new working places so that users could have the ability to find and book them.

Use Cases:

- A. Office managers should be able to add new working places with relevant details.
- B. Newly created working places should be visible and bookable by users.

TASK 3: Complex Reporting

Structured Report:

➤ **Test Activities Summary:**

- User Registration Testing
- Booking of the Office Place Testing
- User Roles Testing
- Native Mobile Application Testing
- Workplace Search Testing
- Security Testing

➤ **Test Results Summary:**

- All test cases executed
- Defects found and logged
- Regression testing performed
- Usability testing conducted for the mobile application

- Workplace search functionality validated
- Security vulnerabilities identified and addressed

➤ **Key Metrics:**

- **Test Coverage:** Percentage of features and functionalities tested.
- **Defect Metrics:** Number of defects found, categorized by severity.
- **Test Execution Time:** Time taken to execute all test activities.

➤ **Conclusion:**

- The testing process ensured thorough validation of the new features, meeting quality expectations and ensuring a reliable release to the customer.
- This structured report covers all aspects of the testing activities performed, providing clear insights into the results achieved.