**Test Plan**

**Web Form**

**Overview**

As a part of the project test few functionalities of this web application.

**Scope**

The web-form below 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.

1. System shall allow use to perform search, set search criteria and filter workplaces, and also to sort and navigate by search results.
2. System shall allow searching without setting search parameters.
3. System shall allow searching workplaces by provided parameters.
4. System shall allow searching only for the date range that is not in the past.
5. System shall allow sorting search results by all available fields.
6. System shall validate provided data before search.
7. System shall provide search results without delay.
8. System shall provide flexible navigation between results.
9. System shall provide user friendly interface.
10. Search result table shall be read only

**New features that added in 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

User Stories the following set of user stories were received from the Customer as description of planned features:

1. As a user, I want to book available working places for future so that nobody could take the place.
2. As a user, I want to have ability to cancel booking so that another user could book it instead.
3. As a user, I want to register into the system so that I can view working places I have booked.
4. As a user, I want to use mobile application for system usage so that I can do it any time.
5. As an office manager, I want to manage working places so that system provide valid up-to-date information to system users.
6. As an office manager, I want to create new working places so that users could have ability to find and book them.

**Suggestions**

1. If user enters date with past date and search then there should be one error message to understand user we cannot search for past dates
2. No search field is marked (\*) as mandatory
3. There is no such button to move directly to last or first page at single click
4. After click on calendar icon there should be clear option to clear selected date
5. After click on calendar icontoday option should present to select directly todays date

**Test environments**

Chrome

Firefox

Microsoft Edge

**Test Strategy**

We need to perform functional testing of all functionalities mentioned in above scope section

Creation of test scenarios and test cases for the different features

* We will apply several Test Designing techniques while creating Test Cases
* We also use our expertise in creating Test Cases by applying the below:
  + Error Guessing
  + Exploratory Testing

Our Testing process, when we get an Application for Testing

* Firstly, we will perform Smoke Testing to check whether the different and important functionalities of the application are working.
* We reject the build, if the Smoke Testing fails and will wait for the stable build before performing in depth testing of the application functionalities.
* Once we receive a stable build, which passes Smoke Testing, we perform in depth testing using the Test Cases created.
* Multiple Test Resources will be testing the same Application on Multiple Supported Environments simultaneously.
* We then report the defects in defect tracking tool and send dev. management the defect found on that day in a status end of the day email.
* As part of the Testing, we will perform the below types of Testing:
  + Smoke Testing and Sanity Testing
  + Regression Testing and Retesting
  + Usability Testing, Functionality & UI Testing
* We repeat Test Cycles until we get the quality product.

We will follow the below best practices to make our Testing better

* Shift Left Testing – We will start testing from the beginning stages of the development itself, instead of waiting for the stable build.
* Exploratory Testing – Using our expertise we will perform Exploratory Testing, apart from the normal execution of the Test cases.
* End to End Flow Testing – We will test the end-to-end scenario which involve multiple functionalities to simulate the end user flows.

**Bug Reporting Procedure:**

During the test execution -

* Any deviation from expected behavior by the application will be noted. If it can’t be reported as a bug, it’d be reported as an observation/issue or posed as a question.
* Any usability issues will also be reported.
* After discovery of a bug, it will be retested to verify reproducibility of the bug. Screenshots with steps to reproduce are documented.
* Every day, at the end of the test execution, bug encountered will be sent along with the observations.

Note:

* Bug will be documented in order to excel.
* Test scenarios and Test cases will be documented in an excel document.

**Test Schedule**

Following is the test schedule planned for the project According to SDLC –

|  |  |
| --- | --- |
| Task | Time Duration |
| * Analysis | 2 Days |
| * Design/Creating Test Plan | 2 Days |
| * Coding/Development/ Test Case Creation | 10 Days |
| * Test Case Execution( * Days varies between defect found) | 4 Days- 8 Days |
| * Summary Reports Submission | 2 Days |

Note:

* According to test plan our work estimated completed in 20-24 working Days
* Test plan may be varies based on critical defect we found & requirement changes.

**Entry and Exit Criteria**

The below are the entry and exit criteria for every phases :

### Requirement Analysis

Entry Criteria:

* Once the testing team receives the Requirements Documents or details about the Project

Exit Criteria:

* List of Requirements are explored and understood by the Testing team
* Doubts are cleared

### Test Planning

Entry Criteria:

* Testable Requirements derived from the given Requirements Documents or Project details Doubts are cleared

Exit Criteria:

* Test Plan document (includes Test Strategy) is signed-off by the Client

### Test Designing/ Test case preparation

Entry Criteria:

* Test Plan Document is signed-off by the Client Exit Criteria:
* Test Scenarios and Test Cases Documents are signed-off by the Client

### Test Execution

Entry Criteria:

* Test Scenarios and Test Cases Documents are signed-off by the Client
* Application is ready for Testing Exit Criteria:
* Test Case Reports, Bug Reports are ready

### Test Closure

Entry Criteria:

* Test Case Reports, Bug Reports are ready Exit Criteria:
* Test Summary Reports

# **Tools**

The following are the list of Tools we will be using in this Project:

* JIRA Bug Tracking Tool
* Snipping Screenshot Tool
* Word and Excel documents

# **Risks and Mitigations**

The following are the list of risks possible and the ways to mitigate them: Risk: Non-Availability of a Resource

Mitigation: Backup Resource Planning Risk Build URL is not working

Mitigation: Resources will work on other tasks Risk: Less time for Testing

# **Approvals**

Team will send different types of documents for Client Approval like below:

* Test Plan
* Test Scenarios
* Test Cases
* Reports

Testing will only continue to the next steps once these approvals are done.