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Batch: A2

Experiment No. 7

Aim: Design test scenarios and test cases for your SRS.

Performance:

1. Create test scenario and test cases for your case study
2. Use the following template for the Test Scenario

| Test scenario ID | Requirement-reference document index | Test scenario description | Importance | No. of test cases |
|------------------|--------------------------------------|---|------------|-------------------|
| TS_MI | Section 3, Page 3 | validate if the user is able to enter the MindPrep system with a successful User account | High | 2 |
| TS_PI | 3.1.2 | Validate if the user can upload an assignment from the site of the format (jpg, doc, pdf) | Medium | 3 |
| TS_SI | 4.1 | validate if the system is compatible with Internet Explorer 4, 5 and 5.5, and with Firefox 4-6, as well as Google Chrome 4.0 and later. Also validate if it is applicable with Android 7.0. | Medium | 4 |

Column #1: Test scenario ID

Every entity in our testing process has to be uniquely identifiable. So, every test scenario has to be assigned an ID. The rules to follow while assigning this ID have to be defined. For the sake of this article we are going to follow the naming convention as: TS(prefix that stands for Test Scenario) followed by ‘_’, module name MI(my Info module of the Orange HRM project) followed by ‘_’ and then the sub section (eg: MIM for My info module, P for photograph and so on) followed by a serial number. An example would be: “TS_MI_MIM_01”.

Column #2: Requirement

It helps that when we create a test scenario we should be able to map it back to the section of the SRS document where we picked it from. If the requirements have IDs we could use that. If not section numbers or even page numbers of the SRS document from where we identified a testable requirement will do.

Column #3: Test scenario description

A one liner specifying 'what to test'. We would also refer to it as test objective.

Column #4: Importance

This is to give an idea about how important certain functionality is for the AUT. Values like high, medium and low can be assigned to this field. You could also choose a point system, like 1-5, 5 being most important, 1 being less important. Whatever the value this field can take, it has to be pre-decided.

Column #5: No. of Test cases

A rough estimate on how many individual test cases we might end up writing that one test scenario. **For example:** To test the login- we include these situations: Correct username and password. Correct username and wrong password. Correct password and wrong username. So, validating the login functionality will result in 3 test cases.

3. Use the following template for the Test Cases

| Test case ID | Test Objective | Precondition | Steps: | Test data | Expected result | Post-condition |
|--------------|---|--|---|---|---|---|
| TC_MI_01 | Successful Employee login to OrangeHRM portal | 1. A valid ESS-User account to login to be available 2. MindPrep system is launched on a compatible browser, android application | 1. In the login Panel, enter the username | "A valid username" Enter the actual data : password:-- MindPrep0014 | The user is logged in successfully. | For first time users personal information is displayed. |
| | | | 2. Enter the Password for the ESS-User account in the password field | "A valid Password"-- Xyzesw@13# | | |
| | | | 3. Click "Login" button | | | |
| TC_MI_02 | Error message on unsuccessful Employee login to MindPrep system | 1. A User name to login to be available 2. MindPrep system is launched on a compatible browser, android application | 1. In the login Panel, enter the username | "A valid username" | An Error message is displayed and the user is not logged in to the Orange HRM portal. "<Exact Error Message>" | |
| | | | 2. Enter the Password for the User account in the password field | "A invalid Password" | | |
| | | | 3. Click "Login" button | | | |
| TC_PI_01 | Check the upload of a format pdf file as Assignment | 1. MindPrep site/application is launched on a compatible device and a User account holder is logged in to the system 2. A assignment to upload that is pdf in format in size is available | Click on the assignment button displayed at the top left corner of the page | | The "assignment screen" will be displayed | This page will contain options to select and upload assignments |

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|----------|---|--|---|--|--|--|
| | | on the local machine a location | | | | |
| | | | Click on "Choose a file" button | | You will be able to browse your local machine for pdf | |
| | | | Choose a pdf file of type "assignment" | Name of the assignment Location-path on the machine | The file name is selected in the "Choose a file" box | |
| | | | Click on upload | | The file gets uploaded and the older image is replaced | It takes 2-5 depending on the size of the image for this change to complete and the page to refresh with the assignment. |
| TC_PI_02 | Check the upload of format image as assignment | 1. MindPrep site/application is launched on a compatible device and a User account holder is logged in to the system 2. A assignment to upload that is pdf in format in size is available on the local machine a location | Click on the assignment button displayed at the top left corner of the page | | The "assignment screen" will be displayed | This page will contain options to select and upload pictures. |
| | | | Click on "Choose a file" button | | You will be able to browse your local machine for images | |
| | | | Choose a image file of type "assignment" | Name of the assignment Location-path on the machine | The file name is selected in the "Choose a file" box | |
| | | | Click on upload | | The file gets uploaded and the older image is replaced | It takes 2-5 depending on the size of the image for this change to complete and the page to refresh with the new image. |
| TC_PI_03 | Check the upload of format Document as assignment | 1. MindPrep site/application is launched on a compatible device and a User account holder is logged in to the system 2. A assignment to upload that is pdf in format in size is available on the local machine a location | Click on the assignment button displayed at the top left corner of the page | | The "assignment screen" will be displayed | This page will contain options to select and upload pictures. |

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|----------|--|--|---|--|---|--|
| | | | Click on "Choose a file" button | | You will be able to browse your local machine for images | |
| | | | Choose a document file of type "assignment" | Name of the assignment Location-path on the machine | The file name is selected in the "Choose a file" box | |
| | | | Click on upload | | The file gets uploaded and the older document is replaced | It takes 2-5 depending on the size of the document for this change to complete and the page to refresh with the new image. |
| TC_SI_01 | Check the Compatibility of MindPrep with browser Internet explorer | 1. Installation of browser internet explorer on the device | MindPrep is loaded on the browser | | MindPrep system will be loaded successfully | MindPrep system will be displayed on screen |
| | | | Elements(buttons,forms,menus) are visible | | | |
| | | | Elements are clickable | | Elements can be used by clicking on it | |
| | | | Content of pages are visible | | Content,text are readable | |
| | | | All the plugins supported | The name of the Plugin to be used | Plugins can be used on the browser | |
| TC_SI_02 | Check the Compatibility of MindPrep with browser Google | 1. Installation of browser Google Chrome on the device | MindPrep is loaded on the browser | | MindPrep system will be loaded successfully | MindPrep system will be displayed on screen |
| | | | Elements(buttons,forms,menus) are visible | | | |
| | | | Elements are clickable | | Elements can be used by clicking on it | |
| | | | Content of pages are visible | | Content,text are readable | |
| | | | All the plugins supported | The name of the Plugin to be used | Plugins can be used on the browser | |
| TC_SI_03 | Check the Compatibility of MindPrep with browser Firefox | 1. Installation of browser Firefox on the device | MindPrep is loaded on the browser | | MindPrep system will be loaded successfully | MindPrep system will be displayed on screen |
| | | | Elements(buttons,forms,menus) are visible | | | |
| | | | Elements are clickable | | Elements can be used by clicking on it | |
| | | | Content of pages are visible | | Content,text are readable | |
| | | | All the plugins supported | The name of the Plugin to be used | Plugins can be used on the browser | |
| TC_SI_04 | Check the Compatibility of MindPrep with Android | 1. Installation of Android on the device | MindPrep is loaded on the browser | | MindPrep system will be loaded successfully | MindPrep system will be displayed on screen |

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| | | | Elements(buttons,forms,menus) are visible | | | |
| | | | Elements are clickable | | Elements can be used by clicking on it | |
| | | | Content of pages are visible | | Content,text are readable | |
| | | | All the plugins supported | The name of the Plugin to be used | Plugins can be used on the browser | |

Test case ID: Unique ID for each test case. Follow some convention to indicate types of test. E.g. 'TC_UI_1' indicating 'user interface test case #1'.

Test Objective: Describe what the test case is actually going to test.

Pre-condition: Any prerequisite that must be fulfilled before execution of this test case. List all pre-conditions in order to successfully execute this test case.

Dependencies: Mention any dependencies on other test cases or test requirement.

Test Steps: List all test execution steps in detail. Write test steps in the order in which these should be executed. Make sure to provide as much details as you can. Tip – to efficiently manage test case with lesser number of fields use this field to describe test conditions, test data and user roles for running test.

Test Data: Use of test data as an input for this test case. You can provide different data sets with exact values to be used as an input.

Expected Result: What should be the system output after test execution? Describe the expected result in detail including message/error that should be displayed on screen.

Post-condition: What should be the state of the system after executing this test case?

Actual result: Actual test result should be filled after test execution. Describe system behavior after test execution.

Conclusion:

Thus, we are able to create test scenarios and test cases for our case study.