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# CHAPTER 6

# TESTING

## 6.1 Alpha Testing

This is the earliest stage of testing, where the portion or segments of the system that was finished developed is tested “in house”, which means the testers were the members from the development team itself. It is actually an ongoing process rather than a one-off at the end of development because errors were discovered throughout the development process and was immediately fixed. Although some bugs did slipped through the cracks, there’s another round of testing after the development concluded. The tests that were conducted revolved around two major category: user interface testing and backend functionality testing. This report will touch on the user interface testing that is further breakdown into several parts, while the backend functionality testing will be discussed by the other team member.

## 6.2 User Interface Testing

Because it is conducted by the development team, the purpose for this user interface testing is not to ensure the usability and user satisfaction, instead the main objective of this testing is to ensure that every single component that exists on the user interface functions as intended. It involved running the system on the actual web browser to ensure that the interface is rendered correctly. In this case the browsers that were used in testing are: Google Chrome, Mozilla Firefox, and Internet Explorer, which was later replaced by the Microsoft Edge browser after the author switched to Windows 10 once it was launched at the end of July this year.

Also tested was how the webpages were rendered on different screen sizes, and the way this was simulated was by resizing the web browser to mimic different type of screen size: large screens, wide screens, standard ones, tablet screen, or mobile screen. Finally the third component of this testing is the proofreading, and the purpose of doing it was to ensure that all the wording, including the smallest button text, was grammatically correct, and also consistent throughout the website, meaning two buttons with same functionality won’t have two different type of wording, and thus maintaining consistency.

The following section will be devoted to elaborate the user interface testing, and they are organized according to the type of users, because each type will be able to see different sets of webpages, and of course there’s one common page that all of them will see, the login page. These user type are: Site Admin, Conference Admins, Participants, and Reviewers.

## 6.2.1 Login Page

|  |  |
| --- | --- |
| **Test Case #1** | **Click “Login” button with blank username AND password** |
| Expected Result | Error message showing username AND password is required. |
| Status | Pass |
| Screenshots |  |
| **Test Case #2** | **Click “Login” button with correct username BUT blank password** |
| Expected Result | Error message showing only password is required. |
| Status | Pass |
| Screenshots |  |
| **Test Case #3** | **Click “Login” button with correct username BUT wrong password** |
| Expected Result | Error message showing incorrect username/password entered |
| Status | Pass |
| Screenshots |  |
| **Test Case #4** | **Click “Login” button with correct SITE ADMIN username AND correct password** |
| Expected Result | Will be redirected to main page for site admin |
| Status | Pass |
| Screenshots |  |
| **Test Case #5** | **Click “Login” button with correct CONFERENCE ADMIN username AND correct password** |
| Expected Result | Will be redirected to main page for conference admins |
| Status | Pass |
| Screenshots |  |
| **Test Case #6** | **Click “Login” button with correct PARTICIPANT username AND correct password** |
| Expected Result | Will be redirected to main page for participants |
| Status | Pass |
| Screenshots |  |
| **Test Case #7** | **Click Register Button** |
| Expected Result | Will be redirected to registration page |
| Status | Pass |
| Screenshots |  |

## 6.2.2 Registration Page

|  |  |
| --- | --- |
| **Test Case #1** | **Click Register Button with ALL empty fields** |
| Expected Result | Error messages for required fields will pop up |
| Status | Pass |
| Screenshots |  |
| **Test Case #2** | **Click Register Button with ONLY email entered but incorrect email format** |
| Expected Result | Error messages for wrong email format will be shown as well as other required fields |
| Status | Pass |
| Screenshots |  |
| **Test Case #3** | **Click Register Button with ONLY email with correct format entered** |
| Expected Result | No error message at email row but other required field will have error messages |
| Status | Pass |
| Screenshots |  |
| **Test Case #4** | **Click Register Button with correct email but incorrect username format** |
| Expected Result | No error message at email row but other required field will have error messages, and the message with correct username format will be shown at username row |
| Status | Pass |
| Screenshots |  |
| **Test Case #4** | **Click Register Button with correct email but incorrect username format** |
| Expected Result | No error message at email row but other required field will have error messages, and the message with correct username format will be shown at username row |
| Status | Pass |
| Screenshots |  |
| **Test Case #5** | **Click Register Button with correct email and correct username format** |
| Expected Result | No error message at email and username row but other required field will have error messages |
| Status | Pass |
| Screenshots |  |
| **Test Case #6** | **Click register button with incorrect password format – less than 6 characters (continuation from previous test case)** |
| Expected Result | No error message at email and username row but other required field will have error messages, and error message with correct password format is shown at password row. |
| Status | Pass |
| Screenshots |  |
| **Test Case #7** | **Click register button with incorrect password format – more than 6 characters but only numbers or alphabets(continuation from previous test case)** |
| Expected Result | No error message at email and username row but other required field will have error messages, and error message with correct password format is shown at password row. |
| Status | Pass |
| Screenshots |  |
| **Test Case #8** | **Click register button with correct password format (continuation from previous test case)** |
| Expected Result | No error message at email, password and username row but other required field will have error messages. |
| Status | Pass |
| Screenshots |  |
| **Test Case #9** | **Click register button with unmatched passwords from password and confirm password row (continuation from previous test case)** |
| Expected Result | No error message at email, password and username row but other required field will have error messages, and the unmatched message will be shown at the confirm password row. |
| Status | Pass |
| Screenshots |  |
| **Test Case #10** | **Click register button with matched passwords from password and confirm password row (continuation from previous test case)** |
| Expected Result | No error message at email, password, confirm password and username row but other required field will have error messages. |
| Status | Pass |
| Screenshots |  |
| **Test Case #11** | **Click register button with full name entered (continuation from previous test case)** |
| Expected Result | No error message at email, password, confirm password, full name and username row but other required field will have error messages. |
| Status | Pass |
| Screenshots |  |
| **Test Case #12** | **Click register button with institution entered (continuation from previous test case)** |
| Expected Result | No error message at email, password, confirm password, full name, institution and username row but other required field will have error messages. |
| Status | Pass |
| Screenshots |  |
| **Test Case #13** | **Click register button with address entered (continuation from previous test case)** |
| Expected Result | No error message at email, password, confirm password, full name, institution, address and username row but other required field will have error messages. |
| Status | Pass |
| Screenshots |  |
| **Test Case #14** | **Click register button with state entered (continuation from previous test case)** |
| Expected Result | No error message at email, password, confirm password, full name, institution, address, state and username row but other required field will have error messages. |
| Status | Pass |
| Screenshots |  |
| **Test Case #15** | **Click register button with postcode entered (continuation from previous test case)** |
| Expected Result | No error message at all required field |
| Status | Pass |
| Screenshots |  |
| **Test Case #16** | **Click register button with none of the drop down list item selected (continuation from previous test case)** |
| Expected Result | No error message at all required field, error message at drop down lists and captcha field |
| Status | Pass |
| Screenshots |  |
| **Test Case #17** | **Click register button with all of the drop down list item selected (continuation from previous test case)** |
| Expected Result | No error message at all required field and drop down lists, error message at captcha field |
| Status | Pass |
| Screenshots |  |
| **Test Case #18** | **Click register button with matching captcha input (continuation from previous test case)** |
| Expected Result | Successfully registered and redirects to user main page |
| Status | Pass |
| Screenshots |  |

## 6.2.3 Site Admin Pages

|  |  |
| --- | --- |
| **Test Case #1** | **Click edit button** |
| Expected Result | Redirects to edit detail page |
| Status | Pass |
| Screenshots |  |
| **Test Case #2** | **Click edit button for notification email** |
| Expected Result | Redirects to notification email page |
| Status | Pass |
| Screenshots |  |
| **Test Case #3** | **Switching between different tabs for the notification emails** |
| Expected Result | Word editors changes accordingly with each selected tab |
| Status | Pass |
| Screenshots |  |
| **Test Case #4** | **Navigation Testing – select edit user on the breadcrumb** |
| Expected Result | Redirects to edit detail page |
| Status | Pass |
| Screenshots |  |
| **Test Case #5** | **Navigation Testing – select home on the breadcrumb** |
| Expected Result | Redirects to site admin main page |
| Status | Pass |
| Screenshots |  |
| **Test Case #6** | **Navigation Testing – select go back button at the bottom** |
| Expected Result | Redirects to edit detail page |
| Status | Pass |
| Screenshots |  |
| **Test Case #7** | **Click Save button on notification email templates** |
| Expected Result | Changes is saved and redirects to edit detail page |
| Status | Pass |
| Screenshots |  |
| **Test Case #8** | **Click edit button on fees** |
| Expected Result | Redirects to fees page |
| Status | Pass |
| Screenshots |  |
| **Test Case #9** | **Click edit button on action column** |
| Expected Result | Redirects to edit fees page |
| Status | Pass |
| Screenshots |  |
| **Test Case #10** | **Click save button with any columns empty** |
| Expected Result | Appropriate error message will be show at that empty column |
| Status | Pass |
| Screenshots |  |
| **Test Case #11** | **Enter non-numerical values for bottom 2 text fields** |
| Expected Result | Error message of only numeric value will be shown at appropriate row |
| Status | Pass |
| Screenshots |  |
| **Test Case #12** | **Click save button with all field fill out** |
| Expected Result | Changes is saved and redirects to edit fees page which will display the changed values |
| Status | Pass |
| Screenshots |  |
| **Test Case #13** | **Click delete button on action column** |
| Expected Result | Redirects to delete fees page |
| Status | Pass |
| Screenshots |  |
| **Test Case #14** | **Click delete button at the bottom (continuous from previous test case)** |
| Expected Result | Item deleted, redirects to fee detail page, and the changes is displayed |
| Status | Pass |
| Screenshots |  |
| **Test Case #15** | **Click create new button at the bottom (continuous from previous test case)** |
| Expected Result | Redirects to create new fees page |
| Status | Pass |
| Screenshots |  |
| **Test Case #16** | **Click create button at the bottom with all empty fields (continuous from previous test case)** |
| Expected Result | Appropriate error message will appear at each row |
| Status | Pass |
| Screenshots |  |
| **Test Case #17** | **Click create button at the bottom with non-numerical value at the bottom two rows (continuous from previous test case)** |
| Expected Result | No error message at top two rows that have valid values, but with error messages at the bottom two rows. |
| Status | Pass |
| Screenshots |  |
| **Test Case #18** | **Click create button at the bottom with all valid values** |
| Expected Result | New fees created and redirects to fees page, and new row will be displayed. |
| Status | Pass |
| Screenshots |  |
| **Test Case #19** | **Navigation testing - breadcrumb** |
| Expected Result | Select appropriate links on breadcrumbs will redirect users to the page described. |
| Status | Pass |
| Screenshots |  |
| **Test Case #20** | **Navigation Testing – Go back to admin edit page button** |
| Expected Result | Redirects to the edit detail page |
| Status | Pass |
| Screenshots |  |
| **Test Case #21** | **Click Save Button (continuous from previous test case)** |
| Expected Result | Changes saved and redirects to admin main page |
| Status | Pass |
| Screenshots |  |
| **Test Case #22** | **Click Delete Button (continuous from previous test case)** |
| Expected Result | Item is deleted and redirects to admin main page |
| Status | Pass |
| Screenshots |  |
| **Test Case #23** | **Click Create Button** |
| Expected Result | Redirect to create new conference admin page |
| Status | Pass |
| Screenshots |  |
| **Test Case #24** | **Validation Testings** |
| Expected Result | Test each input fields for validation similar to previous sections, where error messages will be shown if an essential field is left blank or the constraint for input is not met. |
| Status | Pass |
| Screenshots |  |
| **Test Case #25** | **Navigation testing – Breadcrumbs and go back buttons** |
| Expected Result | Test each links in the breadcrumb to ensure it redirects to appropriate page, and also the go back button at the bottom left to ensure it go back to the parent page. |
| Status | Pass |
| Screenshots |  |
| **Test Case #26** | **Click on links at conference name column** |
| Expected Result | Redirects to details of that link. |
| Status | Pass |
| Screenshots |  |
| **Test Case #27** | **Navigation testing – breadcrumb, go back button, edit button (continuation from previous test case)** |
| Expected Result | Test links of each breadcrumb to ensure it redirects to appropriate links, click go back list button to go back to parent page, click edit button to go to the edit detail page. |
| Status | Pass |
| Screenshots |  |

## 6.2.4 Conference Admin Pages