## IULOGO

**Final Year Project Defense**

**Project Title**

**Cooking Recipe Portal**

**Submitted by**

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**6. Chapter 6 RESULT ANALYSIS and TESTING**

**6.1. Introduction**

In this chapter, we have designed test cases for the system. In section 6.2, we have designed test cases for the Front-End design of our cooking recipe portal with which the user interacts. In section 6.3, we have designed test cases for the Back End of our cooking recipe portal. In section 6.4 discussed usability testing. Finally, in section 6.5, we have summarized this chapter.

**6.2. Front End Design Testing:**

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| Requirement Reference | 1 | Project Name | Cooking Recipe Portal |
| Test Case Id | 1.1 | **Test Type** | GUI |
| Test Case Description | Test that there should have a menu bar on Home Page showing Add recipe, Recipe list, Recipe details and Login button. | | |
| Test Steps | 1. Open the cooking recipe portal 2. Show menu bar and button properly. | | |
| Expected Result | Application will be opened and menu bar will show properly. | | |
| Actual Result | Menu bar show properly. | | |
| Pass/Fail | Pass | | |
| Date Prepared | 05/02/2022 | | |
| Date Run | 20/02/2022 | | |
| Prepared By | Saadat Hussain | | |
| Tested By | Saadat Hussain | | |

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| Requirement Reference | 2 | Project Name | Cooking Recipe Portal |
| Test Case Id | 1.2 | **Test Type** | GUI |
| Test Case Description | Test that all the spellings on the home page are correct. | | |
| Test Steps | Click on the home button. | | |
| Expected Result | All spellings on the home page should be correct. | | |
| Actual Result | All spellings are correct. | | |
| Pass/Fail | Pass | | |
| Date Prepared | 05/02/2022 | | |
| Date Run | 20/02/2022 | | |
| Prepared By | Saadat Hussain | | |
| Tested By | Saadat Hussain | | |

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| Requirement Reference | 3 | Project Name | Cooking Recipe Portal |
| Test Case Id | 1.3 | **Test Type** | GUI |
| Test Case Description | Test that menu bar should have Add Recipe, Recipe list, Recipe Detail and Login button. | | |
| Test Steps | 1. Click on the home button. | | |
| Expected Result | There should has a menu bar with Add Recipe, Recipe list, Recipe detail and login button. | | |
|  | Menu bar shows properly with Add Recipe, Recipe list, Recipe detail and Login button. | | |
| Pass/Fail | Pass | | |
| Date Prepared | 05/02/2022 | | |
| Date Run | 20/02/2022 | | |
| Prepared By | Saadat Hussain | | |
| Tested By | Saadat Hussain | | |

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| Requirement Reference | 4 | Project Name | Cooking Recipe Portal |
| Test Case Id | 1.4 | **Test Type** | GUI |
| Test Case Description | Test that Add Recipe page should have two fields i.e. Recipe name with text box, recipe with text area. | | |
| Test Steps | 1. Click on Add Recipe. | | |
| Expected Result | Add Recipe page should have two labels. | | |
| Actual Result | Add recipe page have two labels namely recipe name, recipe and a category list. | | |
| Pass/Fail | Pass | | |
| Date Prepared | 05/02/2022 | | |
| Date Run | 20/02/2022 | | |
| Prepared By | Saadat Hussain | | |
| Tested By | Saadat Hussain | | |

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| Requirement Reference | 5 | Project Name | Cooking Recipe Portal |
| Test Case Id | 1.5 | **Test Type** | Functionality |
| Test Case Description | Test that text box for recipe name should be editable. | | |
| Test Steps | 1. Attempt to enter recipe name in the text field. | | |
| Expected Result | Text field should allow user to enter the recipe name. | | |
| Actual Result | Text field allow user to enter the recipe name. | | |
| Pass/Fail | Pass | | |
| Date Prepared | 05/02/2022 | | |
| Date Run | 20/02/2022 | | |
| Prepared By | Saadat Hussain | | |
| Tested By | Saadat Hussain | | |

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| Requirement Reference | 6 | Project Name | Cooking Recipe Portal |
| Test Case Id | 1.6 | **Test Type** | Functionality |
| Test Case Description | Test that text area for recipe detail should be editable. | | |
| Test Steps | 1. Attempt to enter recipe in the rich text box. | | |
| Expected Result | Text area should allow user to enter the recipe. | | |
| Actual Result | Text area allow user to enter the recipe. | | |
| Pass/Fail | Pass | | |
| Date Prepared | 05/02/2022 | | |
| Date Run | 20/02/2022 | | |
| Prepared By | Saadat Hussain | | |
| Tested By | Saadat Hussain | | |

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| Requirement Reference | 7 | Project Name | Cooking Recipe Portal |
| Test Case Id | 1.7 | **Test Type** | Functionality |
| Test Case Description | Test that combo box for category work properly | | |
| Test Steps | 1. Click on the combo box. 2. Select any category | | |
| Expected Result | Combo box should work properly. | | |
| Actual Result | Combo box works properly. | | |
| Pass/Fail | Pass | | |
| Date Prepared | 05/02/2022 | | |
| Date Run | 20/02/2022 | | |
| Prepared By | Saadat Hussain | | |
| Tested By | Saadat Hussain | | |

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| Requirement Reference | 8 | Project Name | Cooking Recipe Portal |
| Test Case Id | 1.8 | **Test Type** | Functionality |
| Test Case Description | To test that system should allow string data type in the text box. | | |
| Test Steps | 1. Enter recipe name. | | |
| Expected Result | System should allow user to enter only string data type. | | |
| Actual Result | System allows user to enter only string data type. | | |
| Pass/Fail | Pass | | |
| Date Prepared | 05/02/2022 | | |
| Date Run | 20/02/2022 | | |
| Prepared By | Saadat Hussain | | |
| Tested By | Saadat Hussain | | |

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| Requirement Reference | 9 | Project Name | Cooking Recipe Portal |
| Test Case Id | 1.9 | **Test Type** | Functionality |
| Test Case Description | To test that system should have a login page | | |
| Test Steps | 1. Click on the login button. | | |
| Expected Result | System should have a login page. | | |
| Actual Result | Login screen displayed. | | |
| Pass/Fail | Pass | | |
| Date Prepared | 05/02/2022 | | |
| Date Run | 20/02/2022 | | |
| Prepared By | Saadat Hussain | | |
| Tested By | Saadat Hussain | | |

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| Requirement Reference | 10 | Project Name | Cooking Recipe Portal |
| Test Case Id | 1.10 | **Test Type** | Functionality |
| Test Case Description | To test that system should have two fields for username, password and a sign in button. | | |
| Test Steps | 1. Click on the login button on the menu bar. | | |
| Expected Result | Login page should have fields for username and password and a sign in button. | | |
| Actual Result | Login page have fields for username and password and a sign in button. | | |
| Pass/Fail | Pass | | |
| Date Prepared | 05/02/2022 | | |
| Date Run | 20/02/2022 | | |
| Prepared By | Saadat Hussain | | |
| Tested By | Saadat Hussain | | |

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| Requirement Reference | 11 | Project Name | Cooking Recipe Portal |
| Test Case Id | 1.11 | **Test Type** | Functionality |
| Test Case Description | To test that system should set the user login on providing valid username and password and then click on sign in button. | | |
| Test Steps | 1. Click on the login button on the menu bar. 2. Enter valid username and password. 3. Click on the sign in button. | | |
| Expected Result | System should set the user login. | | |
| Actual Result | System set the user login. | | |
| Pass/Fail | Pass | | |
| Date Prepared | 05/02/2022 | | |
| Date Run | 20/02/2022 | | |
| Prepared By | Saadat Hussain | | |
| Tested By | Saadat Hussain | | |
| Requirement Reference | 12 | Project Name | Cooking Recipe Portal |
| Test Case Id | 1.12 | **Test Type** | Functionality |
| Test Case Description | To test that system should not set the user login on providing invalid username but valid password and then click on sign in button. | | |
| Test Steps | 1. Click on the login button on the menu bar. 2. Enter invalid username but valid password. 3. Click on sign in button. | | |
| Expected Result | System should not set the user login. | | |
| Actual Result | System not set the user login.  System shows an error message. | | |
| Pass/Fail | Pass | | |
| Date Prepared | 05/02/2022 | | |
| Date Run | 20/02/2022 | | |
| Prepared By | Saadat Hussain | | |
| Tested By | Saadat Hussain | | |
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| Requirement Reference | 13 | **Project Name** | Cooking Recipe Portal |
| Test Case Id | 1.13 | **Test Type** | Functionality |
| Test Case Description | To test that system should not set the user login on providing valid username but invalid password and then click on sign in button. | | |
| Test Steps | 1. Click on the login button on the menu bar. 2. Enter valid username but invalid password. 3. Click on sign in button. | | |
| Expected Result | System should not set the user login. | | |
| Actual Result | System not set the user login.  System shows an error message. | | |
| Pass/Fail | Pass | | |
| Date Prepared | 05/02/2022 | | |
| Date Run | 20/02/2022 | | |
| Prepared By | Saadat Hussain | | |
| Tested By | Saadat Hussain | | |

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| Requirement Reference | 14 | Project Name | Cooking Recipe Portal |
| Test Case Id | 1.14 | **Test Type** | Functionality |
| Test Case Description | To test that system should not set the user login on providing invalid username and invalid password and then click on sign in button. | | |
| Test Steps | 1. Click on the login button on the menu bar. 2. Enter invalid username and invalid password. 3. Click on sign in button. | | |
| Expected Result | System should not set the user login. | | |
| Actual Result | System not set the user login.  System shows an error message. | | |
| Pass/Fail | Pass | | |
| Date Prepared | 05/02/2022 | | |
| Date Run | 20/02/2022 | | |
| Prepared By | Saadat Hussain | | |
| Tested By | Saadat Hussain | | |

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| Requirement Reference | 15 | Project Name | Cooking Recipe Portal |
| Test Case Id | 1.15 | **Test Type** | GUI |
| Test Case Description | To test that login page should have a sign up option. | | |
| Test Steps | 1. Click on the login button on menu bar. | | |
| Expected Result | Login page should have a signup option. | | |
| Actual Result | Login page have a signup option. | | |
| Pass/Fail | Pass | | |
| Date Prepared | 05/02/2022 | | |
| Date Run | 20/02/2022 | | |
| Prepared By | Saadat Hussain | | |
| Tested By | Saadat Hussain | | |

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| Requirement Reference | 15 | Project Name | Cooking Recipe Portal |
| Test Case Id | 1.15 | **Test Type** | GUI |
| Test Case Description | To test that login page should have a forgot password option. | | |
| Test Steps | 1. Click on the login button on menu bar. | | |
| Expected Result | Login page should have a signup option. | | |
| Actual Result | Login page has a signup option. | | |
| Pass/Fail | Pass | | |
| Date Prepared | 05/02/2022 | | |
| Date Run | 20/02/2022 | | |
| Prepared By | Saadat Hussain | | |
| Tested By | Saadat Hussain | | |

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| Requirement Reference | 16 | Project Name | Cooking Recipe Portal |
| Test Case Id | 1.16 | **Test Type** | Functionality |
| Test Case Description |  | | |
| Test Steps |  | | |
| Expected Result |  | | |
| Actual Result |  | | |
| Pass/Fail | Pass | | |
| Date Prepared | 05/02/2022 | | |
| Date Run | 20/02/2022 | | |
| Prepared By | Saadat Hussain | | |
| Tested By | Saadat Hussain | | |

**6.3. Back-End Testing:**

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| Requirement Reference |  | Project Name | Cooking Recipe Portal |
| Test Case Id | 1.0 | **Test Type** |  |
| Test Case Description | To test the loading time of the webpage | | |
| Test Steps | 1. Enter valid Login Id and Password. 2. Click on the SIGN IN button. | | |
| Expected Result | System should set the user login.  Fast loading. | | |
| Actual Result | Loaded | | |
| Pass/Fail | Pass | | |
| Date Prepared | 05/02/2022 | | |
| Date Run | 20/02/2022 | | |
| Prepared By | Saadat Hussain | | |
| Tested By | Saadat Hussain | | |

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| Requirement Reference |  | Project Name | Cooking Recipe Portal |
| Test Case Id | 1.0 | **Test Type** |  |
| Test Case Description | To test that system will add the recipe by clicking on the add button. | | |
| Test Steps | 1. Enter recipe name, detail and select category. 2. Click on the Add button. | | |
| Expected Result | System should add the recipe. | | |
| Actual Result | Systems add the recipe. | | |
| Pass/Fail | Pass | | |
| Date Prepared | 05/02/2022 | | |
| Date Run | 20/02/2022 | | |
| Prepared By | Saadat Hussain | | |
| Tested By | Saadat Hussain | | |

**6.4. Usability Testing**

1) How old are you?  
I am 34 years old.  
2) What is the highest academic achievement you have attained?  
Intermediate.  
3) What is the main reason to use this portal?  
I am very fond of cooking food and searched many websites for different recipes.   
4) Were you able to load the portal quickly?  
Yes, it loaded quickly.  
5) Did the home screen appear?  
Yes, the home page of the portal appeared  
6) Is the color combination used is, ok?  
Yes, the theme is perfect.  
7) Is our portal easy to use?  
Yes.  
8) Are all the buttons clickable?  
Yes, they were.  
9) On clicking the menu item, are you able to navigate to the correct page?  
Yes.  
10) What cannot you find on the portal?  
Everything is there.  
11) Are the pictures used in the recipes attractive?  
Yes, they are perfect.  
12) Does the recipe you searched appear on the screen?  
Yes, the recipes are displayed properly.  
13) Is there a way to improve the user's motivation by giving them an option in the portal?  
Yes, you will add more categories.  
13) Is the recipe that appeared on the search will be helpful to make food?  
Yes, it is very helpful for me to make the food.  
15) Is there any feedback and reinforcement in the recipe portal?  
Yes, the feedback is given in the form of comments.  
16) Is it simple or challenging for you to understand the whole recipe website?  
Website is very user-friendly and simple to use.  
17) Are recipes explained in detail?  
Yes all the instructions are explained in detail.  
18) Are you reviewing any recipes?  
Yes.  
19) What did you like the least in the recipe portal?  
Everything was ok.  
20) Did you like the pictures?  
Yes.  
21) What, if anything, caused you a frustration?  
I logged on to the portal to add or delete recipes which caused me frustrated.  
22) Would you use our recipe portal again?  
Obviously yes.  
23) How can we improve our recipe portal?  
By adding more categories.  
24) How would you describe your overall experience with our portal?  
Overall experience was outstanding.  
1. The webpages are loaded quickly  
2. The theme of the portal was perfect  
3. Searched recipes are simple to make.  
4. Overall the portal is user-friendly.  
5. I added the recipe which is very interesting.  
25) How would you compare our recipe portal to competitors?  
All the recipe portals are best at their way. However, all game's storylines are somehow different  
and are different in their aspects.

**6.5. Summary**

This chapter is about testing the design and development of our Project. In this chapter, we have designed test cases for testing our Project and designed the front end on its basis where we can evaluate a set of actions executed to verify a particular feature or functionality of our portal. A Test Case is a set of test processes, data, and pre-and post-conditioning created for specific test situations to check game requirements. The test case contains specific variables or conditions that we use to compare predicted and actual results to establish whether a software product meets the customer's needs. Also, we have designed test cases for the backend of our Project. After that, we have done usability testing of our Project, i.e., User Experience (UX) testing, for measuring how easy and user-friendly our portal is. A small set of target end-users have our portal used to expose usability defects. In usability testing, we have mainly focused on the user's ease of using the portal, the flexibility of the portal to handle controls, and the portal's ability to meet its objectives.