
SYSTEM TESTING

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6.1 Introduction

Testing of the system is carried out as a parallel activity together with system development and implementation. Each web page formed a module in the code model of this application. Therefore, each page, which is written in C# code, had to be tested in isolation. When the pages are strung together integration. Testing was also carried out to ensure that the outputs of one web page is compatible and consistent with the inputs required by another related web page written in C# code. Therefore, module testing and integration are carried out during system testing of the MLL.

A test plan is designed by defining the input and the output required and comparing it with the actual output. This approach is also known as the Black Box Testing technique.

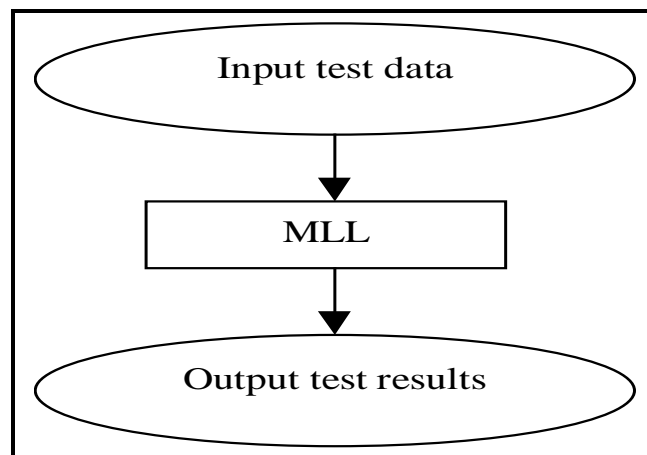


Figure 6.1– Black Box Testing

6.2 Methodology

The testing (i.e. test plan) of entire system from the software developer perspective, can be broken down to unit, module and system testing and therefore the test plan for the entire MLL can be broken down to the following components:

- Testing of the Process
 - Subscriber login
 - Navigation
 - Click events
 - Sound file download
- Code Testing
 - According to the guide line documentation
 - Database objects
- System Test
 - According to the SRS / Administration Part

Test Plan

The test strategy consists of a series of different tests that will fully exercise the MLL. The primary purpose of these tests is to uncover the systems limitations and measure its full capabilities. A list of the various planned tests and a brief explanation of them follows below.

System Test

The system tests were focused on the behaviour of the system. User scenarios were executed against the system as well as screen mapping and error message testing. Overall, the system tests test the integrated system and verify that it meets the requirements defined in the requirements document.

Performance Test

Performance test was conducted to ensure that the system's response times meet the user expectations and does not exceed the specified performance criteria.

During these tests, response times were measured under heavy stress and/or volume.

Security Test

Security tests determined how secure the MLL is. The tests verified that an unauthorized user access to confidential data is prevented. Allowing different users to log in and verify the available user options with the user rights list did this.

Following format is used to measure the system output in Black Box testing.

Test Case No	01			
FORM	Login Form			
FUNCTIONAL SPECIFICATION:	User Authentication			
TEST OBJECTIVE	To check whether the entered User name and Password are valid or Invalid			
TEST DATA	USER Name: PASSWORD:			
Step No	Steps	Data	Expected Results	Actual Results
1				
2				
3				
4				
5				

Table 6.1– Test Document Format

User Acceptance Test

Once the MLL is ready for implementation, subscribers can logon to the system and browse lessons.

6.3 Results

Actual Test Results

Test Case No	01			
FORM	Login Form			
FUNCTIONAL SPECIFICATION:	User Authentication			
TEST OBJECTIVE	To check whether the entered User name and Password are valid or Invalid			
TEST DATA	USER Name: KG0045 PASSWORD: q12			
Step No	Steps	Data	Expected Results	Actual Results
1	Enter User Name and press LOGIN Button	User Name= A001	Should Display Message "User not recognize"	Display Message "User not recognize"
2	Enter Password and press LOGIN Button	Password= test	Should Display Message "User not recognize"	Display Message "User not recognize"
3	Enter user Name and Password and press LOGIN Button	USER = A001 AND Password = test1	Should Display Message "User not recognize"	Display Message "User not recognize"
4	Enter user Name and Password and press LOGIN Button	USER = XYX AND Password = COES	Should Display Warning Message Box "Invalid User name or Password"	Display Warning Message Box "Invalid User name or Password"
5	Enter user Name and Password and press LOGIN Button	USER = XYZ AND Password = XYZ	Should Display Warning Message Box "Invalid User name or Password"	Display Warning Message Box "Invalid User name or Password"
6	Enter user Name and Password and press LOGIN Button	USER = " " AND Password = " "	Should Display Warning Message Box "Enter User ID and Password"	Display Warning Message Box "Enter User ID and Password"
7	Enter User Name and Password and press LOGIN Button	USER = A001 AND Password =test	Should navigate to lanselect.aspx page.	Navigate to lanselect.aspx page.

Test Case No	02			
FORM	Language Select Form			
FUNCTIONAL SPECIFICATION:	User Can Select Option			

TEST OBJECTIVE	To check whether the User can select desired language			
TEST DATA	Select any Option			
Step No	Steps	Data	Expected Results	Actual Results
1	Press the Go button without selecting a option	Default selection will be English	Should Display lvlselect.aspx for English	Display lvlselect.aspx for English
2	Press the GO button After selecting a language option	Select a option	Should Display lvlselect.aspx for selected language	Display lvlselect.aspx for selected language

Test Case No	03			
FORM	Manu Form			
FUNCTIONAL SPECIFICATION:	User Selection of the desired lesson			
TEST OBJECTIVE	To check whether the User can go forward by clicking the menu items			
TEST DATA	Click on menu items			
Step No	Steps	Data	Expected Results	Actual Results
1	Select option "Lesson One"	Select option	Should Display the Lesson One with Download option for sound file and Move Next Lesson option	Display the Lesson1.aspx file with options
1	Select option "Language Menu"	Select option	Move backward to the Language selection page (lanselect.aspx)	Move backward to the lanselect.aspx
2	Select option "Back"	Select option	Should navigate to the lvlselect.aspx for selection for level	Move backward to the lvlselect.aspx.

Chapter Summary

Chapter – Six discussed testing following functions of the system. Display of information, security features, error messages and admin functions.