FACULTY OF COMPUTER SYSTEMS & SOFTWARE ENGINEERING

BCS3323 - SOFTWARE TESTING & MAINTENANCE

Test Procedure Specification

DOOR ACCESS SYSTEM VIA FINGERPRINT WITH GSM
(RESMART)
Independence Verification and Validation

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1.0 Introduction

1.1 Purpose

i. To identify the sources of the information used to prepare the test plan.
ii. To analyze the activities required to prepare for and conduct the system test.
iii. To communicate to all responsible parties the tasks that they are perform and the schedule to be followed.

1.2 Scope

The test procedure specification covers all the features developed in RESMART.

1.3 References

The following IEEE standards have been referenced in preparation of this document:
i. IEEE 829-2008 Standard for Software and System Test Documentation

The following documents provide the test basis for this test design:
i. RESMART Software Requirement Specifications (RESMART_SRS_1.0)
ii. RESMART System Design Specifications (RESMART_SDS_1.0)

2.0 Test Procedure

2.1 Login Test Procedure

Prior to execution of the following test procedures, these special requirements must be prepared:

i. ReSMART must be in "On" state.

Test Procedure ID	TP-01-001
Objective	Check the login page interface
Test Cases To Be Executed	TC-01-001, TC-01-006
Set Up	1. Open login page 2. Click button login 3. Check mandatory symbol appear or not.
Wrap Up	None

Table 2.1.1 Login page interface test procedure

Test Procedure ID	TP-01-002
Objective	Verify password field must be encrypted.
Test Cases To Be Executed	TC-01-002
Set Up	1. Enter password " 12345"
Wrap Up	None

Table 2.1.2 Password field encryption test procedure

Test Procedure ID	TP-01-003
Objective	Verify password must be number.
Test Cases To Be Executed	TC-01-005
Set Up	1. Enter password " 765pah"
Wrap Up	None

Table 2.1.3 Password case sensitive test procedure

Test Procedure ID	TP-01-004
Objective	Leave the password field blank.
Test Cases To Be Executed	TC-01-010
Set Up	1. Do not input the password in password field.
Wrap Up	None

Table 2.1.4 Password field is blank test procedure

Test Procedure ID	TP-01-005
Objective	Verify valid password.
Test Cases To Be Executed	TC-01-004
Set Up	1. Enter valid password "12345" 2. Allow the manager to proceed.
Wrap Up	None

Table 2.1.5 Verify valid password test procedure

Test Procedure ID	TP-01-006
Objective	Click forgot password
Test Cases To Be Executed	TC-01-007
Set Up	1. Click forgot password 2. Manager receive email forgot password.
Wrap Up	None

Table 2.1.6 Forgot password test procedure

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Test Procedure ID	TP-01-007
Objective	Enter invalid password
Test Cases To Be Executed	TC-01-003,TC-01-008,TC-01-009
Set Up	1. Enter "AFIFAH" for first invalid password. 2. Enter "765432" for second invalid password. 3. Enter "6523488" for third invalid password.
Wrap Up	None

Table 2.1.7 Login alternate flow- Invalid password test procedure

2.2 Add User Test Procedure

Prior to execution of the following test procedures, these special requirements must be prepared:

i. ResMART must be in "On" state.

ii. ResMART must be in "user" menu

Test Procedure ID	TP-02-001
Objective	Add user interface
Test Cases To Be Executed	TC-02-002, TC-02-005, TC-02-008
Set Up	Input valid staff ID Input valid full name [TC-02-002] Input valid short name[TC-02-005] Input valid phone num [TC-02-008] Input valid access door
Wrap Up	Press "add fingerprint" button

Table 2.2.1 Add User Test Procedure

Test Procedure ID	TP-02-002
Objective	Add user Alternate flow- Invalid full name, Invalid short name, Invalid phone number
Test Cases To Be Executed	TC-06-006, TC-06-007, TC-06-008
Set Up	Input invalid full name [TC-02-003] Input invalid short name[TC-02-006] Input invalid phone num[TC-02-009]
Wrap Up	None

Table 2.2.3 Add user Alternate flow- Invalid full name, invalid short name, invalid phone number Test Procedure

2.3 Search Existing User Test Procedure

Prior to execution of the following test procedures, these special requirements must be prepared:

i. System must be in "On" state.

ii. Manager must log in to the system.

Test Procedure ID	TP-03-001
Objective	Verify Staff ID
Test Cases To Be Executed	TC-03-001, TC-03-002, TC-03-003, TC-03-004, TC-03-005, TC-03-006, TC-03-007
Set Up	Input 0 to input invalid staff ID. [TC-03-001] Input 1 to input valid staff ID. [TC-03-002] Input 250 to input valid staff ID. [TC-03-003] Input 251 to input invalid staff ID. [TC-03-004] Input 1234 to input invalid staff ID. [TC-03-005] Input 211 to input valid staff ID. [TC-03-006] Input 49 to input valid staff ID. [TC-03-007]
Wrap Up	None

Table 2.3.1 Verify staff ID procedure

Test Procedure ID	TP-03-002
Objective	Session verification Staff ID Main flow, Session verification Alternate flow- Search Invalid Staff ID, Session verification Alternate flow- Search Wrong Staff ID
Test Cases To Be Executed	TC-03-008, TC-03-009, TC-03-010
Set Up	1. Manager key-in staff ID in the text box provided. 2. Enter invalid staff ID "599" to search staff information. [TC-03-009] 3. Execute step 1. [TC-03-008] 4. Enter wrong staff ID "234" to search staff information. [TC-03-010] 5. Display error message "No match found".
Wrap Up	None

Table 2.3.2 Staff ID main flow and alternate flow test procedure

2.4 Delete Existing User Test Procedure

Prior to execution of the following test procedures, these special requirements must be prepared:

i. ReSMART must be in "On" state.

ii. Manager is logged in to the system.

Test Procedure ID	TP-05-001
Objective	Verify Staff ID
Test Cases To Be Executed	TC-06-001, TC-06-002, TC-06-003, TC-06-004, TC-06-005, TC-06-006, TC-06-007
Set Up	Input 0 to input invalid staff ID [TC-06-001] Input 1 to input valid staff ID [TC-06-002] Input 250 to input valid staff ID [TC-06-003] Input 251 to input invalid staff ID [TC-06-004] Input 500 to input invalid staff ID [TC-06-005] Input 175 to input valid staff ID [TC-06-006] Input 499 to input invalid staff ID [TC-06-007]
Wrap Up	None

Table 2.4.1 Verify Staff ID test procedure

TEST PROCEDURE SPECIFICATION

Test Procedure ID	TP-05-002
Objective	Delete Existing User Main flow, Delete Existing User Alternate flow-Valid Staff ID, Delete Existing User Alternate flow- Invalid Staff ID
Test Cases To Be Executed	TC-05-008, TC-05-009, TC-05-010
Set Up	1. Choose staff from staff list view to be deleted. 2. Presses "Delete User" button to delete user. 3. Message box appears asking if manager really want to delete user, with choices of "Yes" and "Cancel" [TC-05-008] 4. "Yes" button is clicked. 5. Execute deletion of staff from database and PIC [TC-05-009] 6. "Cancel" button is clicked. 7. System displays main screen [TC-05-010]
Wrap Up	Press "Cancel" button to cancel deletion

Table 2.4.2 Staff ID Main Flow and Alternative Flow test procedure

2.5 Change Password Test Procedure

Prior to execution of the following test procedures, these special requirements must be prepared:

i. Manager should be logged in to the system.

ii. System must be in Change Password Page.

Test Procedure ID	TP-08-001
Objective	Verify Password
Test Cases To Be Executed	TC-08-001, TC-08-002, TC-08-003, TC-08-004, TC-08-005, TC-08-006, TC-08-007
Set Up	Press "Change Password Now" to input 0 digit password. [TC-08-001] Input 15 (2 digits) to input password. [TC-08-002] Input 116 (3 digits) to input password. [TC-08-003] Input 12345 (5 digits) to input valid password. [TC-08-004] Input 123456 (6 digits) to input password. [TC-08-005] Input 123456789 (9 digits) to input password. [TC-08-006] Input 1234567890 (10 digits) to input password. [TC-08-007]
Wrap Up	Press "Cancel" button

Table 2.5.1 Verify Password Test Procedure

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Test Procedure ID	TP-08-002
Objective	Change Password Main Flow, Change Password Alternate Flow – Unmatched Password
Test Cases To Be Executed	TC-08-008, TC-08-009
Set Up	1. Manager inserts three fields which is old password, new password and re-enter new password. 2. Manager clicks on "Change Password Now" button. 3. System displays the messages "Password Not Matched!" [TC-08-009] 4. System requests to fill in the fields. 5. Execute step 1 and 2. 6. System displays the messages "Password Updated!" [TC-08-008]
Wrap Up	None

Table 2.5.2 Change Password Main Flow and Change Password Alternate Flow – Unmatched Password Test Procedure

Test Procedure ID	**TP-08-003**
Objective	Change Password Main Flow, Change Password Alternate Flow – Unfilled field
Test Cases To Be Executed	TC-08-008, TC-08-010
Set Up	1. Manager fill in two of the fields (e.g : old password and new password) 2. Manager clicks on "Change Password Now" button. 3. System displays the messages "Fill Up All Fields!" [TC-08-010] 4. System requests to fill in all the fields. 5. Manager inserts three fields which is old password, new password and re-enter new password. 6. Manager clicks on "Change Password Now" button. 7. System displays the messages "Password Updated!" [TC-08-008]
Wrap Up	None

Table 2.5.3 Change Password Main Flow and Change Password Alternate Flow – Unfilled Field Test Procedure