

COLLEGE OF COMPUTER SCIENCE AND INFORMATION TECHNOLOGY

CSEB424 Software Testing

Test Case Specification

Automated Teller Machine System (ATMS)
Withdrawal

Version: 1.0.0

Date: 03/12/2017

Document Control

Document Name	ATMS Test Case Specification (Iteration 1)	
Reference Number	ATMS_TCS_1	
Version	1.0.0	
Project Code	XYZ_ATMS	
Status	In-Use	
Date Released	3/12/2017	

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Version History

Version	Release Date	Section	Amendments
1.0.0	3/12/2017	All	Original Document

Distribution List

Version	Release Date	Controlled Copy No	Recipient Name	Department	Issue Date	Return Date
1.0.0	3/12/2017	01		ATM Co.	3/12/2017	
				QA Dept.		
1.0.0	3/12/2017	02		ATM Co.	3/12/2017	
1.0.0	3/12/2017	02		Test Team	3/12/2017	
1.0.0	3/12/2017	03		XYZ Bank	3/12/2017	

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1.0 Introduction

1.1 Purpose

This test case specification supports the following objective:

i. To detail the test case derived from test coverage in Test Design Specification

1.2 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 document provide the test basis for this test design:

- i. ATMS Software Requirement Specification, ATMS_SRS_1.0
- ii. ATMS System Design Specification, ATMS_SDS_1.0
- iii. ATMS Test Design Specification, ATMS_TDS_1_1.0.0

2.0 Test Cases

2.1 Environment

Atms tests will be run using dummy accounts where tested transaction will not involve actual monetary transaction. Test shall be performed on actual ATM with the following specification.:

Hardware Name	CINEO C2040
Manufacturer	Wincor Nixdorf
Keyboard	EPP V6(ZKA & PCI 1.x/2.x certified)
Card Processor	Hybrid motorized - EMV 4.x Level 1 certified

Table 2.1 ATM Hardware Requirements

The following dummy ATM cards are needed for testing purposes:

Card Number	Validity	Available Account	Account Balance
0	Invalid	N/A	N/A
_	V 1: 1	1	100
1	Valid	2	1000
		1	100
2	Valid	3	5000
		1	100
3	Valid	2	1000
		3	5000

Table 2.1 Required Dummy ATM Cards

2.2 Test Case

2.2.3 Withdrawal

Test Case ID	TC-05-001				
Related Feature ID	005	005			
Objective	Account Type=0				
Covered Test Coverage	TCOV-05-001, TCOV-05-007	7			
Items					
Input	Expected Result	Special Procedural	Intercase		
		Requirements	Dependency		
Account Type=0	System displays error message "Invalid account selected. Please reselect your account."	Card 1	None		

2.2.3.1 Account Type=0 Test Case

	7 1			
Test Case ID	TC-05-002			
Related Feature ID	005			
Objective	Account Type=1			
Covered Test Coverage	TCOV-05-002, TCOV-05-008			
Items				
Input	Expected Result	Special Procedural Requirements	Intercase Dependency	
Account Type=1	System will display the transaction menu and wait for user's transaction request.	Card 1	None	

2.2.3.2 Account Type=1 Test Case

Test Case ID	TC-05-003				
Related Feature ID	005	005			
Objective	Account Type=2				
Covered Test Coverage	TCOV-05-002, TCOV-05-00	TCOV-05-002, TCOV-05-009			
Items					
Input	Expected Result	Special Procedural	Intercase		
		Requirements	Dependency		
Account Type=2	System will display the transaction menu and	Card 1	None		
	wait for user's				
	transaction request.				

2.2.3.3 Account Type=2 Test Case

Test Case ID	TC-05-004				
Related Feature ID	005	005			
Objective	Account Type=3				
Covered Test Coverage	TCOV-05-002, TCOV-05-01	.0			
Items					
Input	Expected Result	Special Procedural Requirements	Intercase Dependency		
Account Type=3	System will display the transaction menu and wait for user's transaction request.	Card 1	None		

2.2.3.4 Account Type=3 Test Case

Test Case ID	TC-05-005				
Related Feature ID	005	005			
Objective	Account Type=4				
Covered Test Coverage	TCOV-05-003, TCOV-05-01	11			
Items					
Input	Expected Result	Special Procedural	Intercase		
		Requirements	Dependency		
Account Type=4	System displays error message "Invalid account selected. Please reselect your account."	Card 1	None		

2.2.3.5 Account Type=4 Test Case

Test Case ID	TC-05-006			
Related Feature ID	005			
Objective	Amount Withdrawal=0			
Covered Test Coverage	TCOV-05-004, TCOV-05-012			
Items	Items			
Input	Expected Result	Special Procedural	Intercase	
		Requirements	Dependency	
Amount Withdrawal=0	System displays error	Card 1	None	
	message "Invalid			
	amount selected.			
	Please enter valid			
	amount."			

2.2.3.6 Amount Withdrawal=0 Test Case

Test Case ID	TC-05-007			
Related Feature ID	005			
Objective	Amount Withdrawal=1			
Covered Test Coverage	TCOV-05-005, TCOV-05-013			
Items	Items			
Input	Expected Result	Special Procedural Requirements	Intercase Dependency	
Amount Withdrawal=1	System reads the input by user and performs dispensation of cash.	Card 1	None	

2.2.3.7 Amount Withdrawal=1 Test Case

005		
Amount Withdrawal=2		
TCOV-05-005, TCOV-05-014		
Expected Result	Special Procedural	Intercase
	Requirements	Dependency
System reads the input	Card 1	None
by user and performs		
dispensation of cash.		
	Amount Withdrawal=2 TCOV-05-005, TCOV-05-014 Expected Result System reads the input by user and performs	Amount Withdrawal=2 TCOV-05-005, TCOV-05-014 Expected Result Special Procedural Requirements System reads the input by user and performs Card 1

2.2.3.8 Amount Withdrawal=2 Test Case

Test Case ID	TC-05-009		
Related Feature ID	005		
Objective	Amount Withdrawal=4		
Covered Test Coverage	TCOV-05-005, TCOV-05-015		
Items			
Input	Expected Result	Special Procedural Requirements	Intercase Dependency
Amount Withdrawal=4	System reads the input by user and performs dispensation of cash.	Card 1	None

2.2.3.9 Amount Withdrawal=4 Test Case

	L.L.O.S Alliount Withara	wai-+ icst ousc		
Test Case ID	TC-05-010			
Related Feature ID	005			
Objective	Amount Withdrawal=5	Amount Withdrawal=5		
Covered Test Coverage	TCOV-05-005, TCOV-05-016	TCOV-05-005, TCOV-05-016		
Items				
Input	Expected Result	Special Procedural	Intercase	
		Requirements	Dependency	
Amount Withdrawal=5	System reads the input	Card 1	None	
	by user and performs			
	dispensation of cash.			

2.2.3.10 Amount Withdrawal=5 Test Case

Test Case ID	TC-05-011		
Related Feature ID	005		
Objective	Amount Withdrawal=6		
Covered Test Coverage	TCOV-05-006, TCOV-05-017		
Items			
Input	Expected Result	Special Procedural	Intercase
		Requirements	Dependency
Amount Withdrawal=6	System displays error message "Invalid amount	Card 1	None
	selected. Please enter		
	valid amount."		

2.2.3.11 Amount Withdrawal=6 Test Case

Te	st Case ID	TC-05-012		
Re	lated Feature ID	005		
Ok	jective	Withdrawal Main Flow		
Co	vered Test Coverage	TCOV-05-0018, TCOV-05-024, TCOV-05-0)26, TCOV-05-028, TCC	OV-05-030,
Ite	ms	TCOV-05-038		
#	Input	Expected Result	Special Procedural	Intercase
			Requirements	Dependency
1	Selecting "Withdrawal" transaction.	System verifies type of account to withdraw from.		
2	Choosing valid account type.	System verifies type of account and requests for amount to withdraw.	Card 1	None
3	Inserting valid amount.	System dispenses cash, records in log, prints receipt and asks whether user wants to perform another transaction.		
4	Selecting "No" option.	System terminates and ejects card.		

2.2.3.12 Withdrawal Main Flow Test Case

Te	st Case ID	TC-05-013		
Re	lated Feature ID	005		
Ob	jective	Withdrawal Alternate Flow – Invalid Account Type		
Co	vered Test Coverage	TCOV-05-025, TCOV-05-039		
Ite	ms			
#	Input	Expected Result Special Procedural Intercase		Intercase
			Requirements	Dependency
1	Selecting an Invalid	System displays error message	Card 1	None
	Account Type	"Invalid Account Type".		

2.2.3.13 Withdrawal Alternate Flow - Invalid Account Type

Te	st Case ID	TC-05-014			
Re	lated Feature ID	005			
Ok	jective	Withdrawal Alternate Flow – Cancel With	drawal At Account Type S	Selection	
Co	vered Test	TCOV-05-027, TCOV-05-040			
Co	verage Items				
#	Input	Expected Result	Special Procedural	Intercase	
		=xpcotca ricoant	Special Frocedural	interease	
			Requirements	Dependency	

2.2.3.14 Withdrawal Alternate Flow - Cancel Withdrawal At Account Type Selection

Te	st Case ID	TC-05-015				
Re	lated Feature ID	005				
Ob	ojective	Withdrawal Alternate Flow – Invalid Withdrawal Amount (Insufficient Balance in ATM)				
Co	vered Test	TCOV-05-019, TCOV-05-021, TCOV-05-031, TCOV-05-041				
Co	verage Items					
#	Input	Expected Result	Special Procedural	Intercase		
			Requirements	Dependency		
1	Selecting	System displays error message	Card 1	None		
	invalid	"Insufficient Cash" and requests to insert				
	amount.	amount again.				

2.2.3.15 Withdrawal Alternate Flow - Invalid Withdrawal Amount (Insufficient Balance in ATM)

Te	st Case ID	TC-05-016				
Re	lated Feature ID	005				
Ok	jective	Withdrawal Alternate Flow – Invalid Withd	drawal Amount (Insuffici	ent Balance in		
		Account)				
Co	vered Test	TCOV-05-019, TCOV-05-021, TCOV-05-031	, TCOV-05-042			
Co	verage Items					
#	Input	Expected Result	Special Procedural	Intercase		
			Requirements	Dependency		
1	Selecting	System displays error message	Card 1	None		
	invalid	"Insufficient Balance" and requests to				
	amount.	insert amount again.				

2.2.3.16 Withdrawal Alternate Flow - Invalid Withdrawal Amount (Insufficient Balance in Account)

Te	st Case ID	TC-05-017			
Re	lated Feature ID	005			
Ok	ojective	Withdrawal Alternate Flow – Invalid Withdrawal Amount (Daily Withdrawal Limit Reached)			
Co	vered Test	TCOV-05-043			
Co	verage Items				
#	Input	Expected Result	Special Procedural Requirements	Intercase Dependency	
1	Selecting invalid amount	System displays error message "Insufficient Balance" and requests to insert amount again.	Card 1	None	

2.2.3.17 Withdrawal Alternate Flow - Invalid Amount Withdrawal (Daily Withdrawal Limit Reached)

Test Case ID		TC-05-018				
Related Feature		005				
ID						
Objective		Withdrawal Alternate Flow – Cancel When Entering Withdrawal Amount				
Covered Test		TCOV-05-030, TCOV-05-044				
Coverage Items						
#	Input	Expected Result	Special Procedural	Intercase		
			Requirements	Dependency		
1	Press Cancel	System terminates withdrawal session	Card 1	None		
	button.	and asks whether user wants to perform				
		another transaction.				

2.2.3.18 Withdrawal Alternate Flow - Cancel When Entering Withdrawal Amount

Test Case ID		TC-05-019				
Related Feature		005				
ID						
Objective		Withdrawal Alternate Flow – Perform Another Transaction				
Covered Test		TCOV-05-045				
Coverage Items						
#	Input	Expected Result	Special Procedural	Intercase		
			Requirements	Dependency		
1		System displays transaction menu and	Card 1	None		
		waits for user's transaction request.				

2.2.3.19 Withdrawal Alternate Flow - Perform Another Transaction