

[DP-32] [EXP: Balance inquiry on Money Market triggers unknown error and unauthorized withdrawal](#) Created: 28/Jan/26 Updated: 28/Jan/26 Resolved: 28/Jan/26

Status:	Done
Project:	ENSF 438
Components:	None
Affects versions:	None
Fix versions:	1.0, 1.1

Type:	Bug	Priority:	Medium
Reporter:	Nitish Vinotha	Assignee:	Unassigned
Resolution:	Done	Votes:	0
Labels:	None		
Remaining Estimate:	Not Specified		
Time Spent:	Not Specified		
Original estimate:	Not Specified		

Rank:	0 i0007j:
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Description

Function Being Tested

Balance Inquiry (Money Market account)

Initial System State

ATM powered ON

User authenticated (valid card and PIN)

Money Market account available

Steps to Reproduce

1. Insert card
2. Enter correct PIN
3. Select Balance Inquiry
4. Select Money Market account

Expected Result

Balance inquiry should display the current Money Market balance only

No transaction should be executed

No cash should be dispensed

No receipt should indicate a withdrawal

Actual Result

System displays an “Unknown Error” message

A withdrawal of \$500 occurs without user authorization

Receipt displays the account balance as \$500 despite the withdrawal

Severity

Critical

Impact

Unauthorized withdrawal during a read-only operation. Severe financial correctness and security failure; violates fundamental ATM behavior and customer trust.

[DP-31] MFT-REG: Missing dollar sign for withdrawal amount \$60 Created:

28/Jan/26 Updated: 31/Jan/26

Status:	To Do
Project:	ENSF 438
Components:	None
Affects versions:	None
Fix versions:	1.1

Type:	Bug	Priority:	Medium
Reporter:	Nitish Vinotha	Assignee:	Unassigned
Resolution:	Unresolved	Votes:	0
Labels:	None		
Remaining Estimate:	Not Specified		
Time Spent:	Not Specified		
Original estimate:	Not Specified		

Rank:	0 i0007b:
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Description**Description**

Test Case: TC18 – System asks customer to choose a dollar amount to withdraw

Testing Phase: Regression Testing

Version Affected: 1.1

Function Being Tested

Withdrawal amount selection menu

Steps to Reproduce

1. Insert card and authenticate
2. Select Withdrawal
3. Select Checking account
4. Observe withdrawal amount options

Expected Result

All withdrawal options should be displayed with a dollar sign (e.g., \$20, \$40, \$60).

Actual Result

The option for 60 is displayed without a dollar sign (shown as “60”).

Severity

Low

Impact

Minor usability and presentation issue; inconsistent UI formatting.

[DP-30] MFT: Transfer receipt reflects incorrect transferred amount Created:

27/Jan/26 Updated: 31/Jan/26 Resolved: 27/Jan/26

Status:	Done
Project:	ENSF 438
Components:	None
Affects versions:	None
Fix versions:	1.0 , 1.1

Type:	Bug	Priority:	Medium
Reporter:	Prabhjodh Randhawa	Assignee:	Unassigned
Resolution:	Done	Votes:	0
Labels:	None		
Remaining Estimate:	Not Specified		
Time Spent:	Not Specified		
Original estimate:	Not Specified		

Rank:	0 i00073:
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Description**MFT BUG TEST CASE 29 - Transfer receipt displays incorrect amount****Environment**

ATM System – Lab 1 Version 1.0

Function Being Tested

Transfer (Checking to Savings)

Initial System State

ATM powered ON

User authenticated (Card #1, PIN 42)

Checking balance = \$100.00

Savings balance = \$1000.00

Steps to Reproduce

Insert Card #1

Enter PIN 42

Select **Transfer**

Select **Checking** as transfer-from account

Select **Savings** as transfer-to account

Enter transfer amount: **\$100**

Complete transfer

Take receipt

Expected Result

Receipt displays transfer amount of **\$100.00**

Checking balance decreases by **\$100.00**

Savings balance increases by **\$100.00**

Transaction log reflects the correct transfer amount

Actual Result

Receipt displays an incorrect transfer amount and reduces by \$0.50

Displayed amount does not match the value entered by the user

Severity

Medium

Impact

Customer receives incorrect confirmation of a completed transfer, leading to confusion and reduced trust in transaction accuracy, even if balances may update correctly.

[DP-25] MFT: Original transaction not clearly resumed after correct PIN re-entry Created: 27/Jan/26 Updated: 28/Jan/26 Resolved: 28/Jan/26

Status:	Done
Project:	ENSF 438
Components:	None
Affects versions:	None
Fix versions:	1.0 , 1.1

Type:	Bug	Priority:	Medium
Reporter:	Prabhjodh Randhawa	Assignee:	Unassigned
Resolution:	Done	Votes:	0
Labels:	None		
Remaining Estimate:	Not Specified		
Time Spent:	Not Specified		
Original estimate:	Not Specified		

Rank:	0 i0005z:
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Description

MFT BUG TEST CASE 37 - Original transaction not explicitly resumed after correct PIN re-entry

Function Being Tested

PIN retry flow / transaction continuity

Initial System State

ATM requesting PIN re-entry after incorrect attempt

Steps to Reproduce

1. Insert Card #1
2. Enter incorrect PIN
3. When prompted, enter correct PIN
4. Observe next system state

Expected Result

System should clearly resume or indicate continuation of the originally intended transaction.

Actual Result

System accepts the correct PIN but returns to the main transaction menu without explicitly indicating that the original transaction is being resumed.

Severity

Low

Impact

User may be uncertain whether the original transaction is continuing or has been cancelled, reducing clarity of transaction flow.

[DP-24] MFT: Inquiry attempt cannot be reached during Invalid PIN test case flow

Created: 27/Jan/26 Updated: 31/Jan/26 Resolved: 27/Jan/26

Status:	Done
Project:	ENSF 438
Components:	None
Affects versions:	None
Fix versions:	1.0 , 1.1

Type:	Bug	Priority:	Medium
Reporter:	Prabhjodh Randhawa	Assignee:	Unassigned
Resolution:	Done	Votes:	0
Labels:	None		
Remaining Estimate:	Not Specified		
Time Spent:	Not Specified		
Original estimate:	Not Specified		

Rank:	0 i0005r:
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Description**MFT BUG TEST CASE 36** - Inquiry attempt cannot be reached during Invalid PIN test case flow**Function Being Tested**

PIN validation / transaction gating

Initial System State

ATM powered ON

Card inserted

System prompting for PIN

Steps to Reproduce

1. Insert Card #1
2. Enter an incorrect PIN
3. Observe system behavior

Expected Result

System should block all transactions and request PIN re-entry before allowing any inquiry or transaction.

Actual Result

System correctly blocks access to all transactions until a valid PIN is entered. However, the test case wording implies an inquiry attempt during this state, which is not reachable in the UI.

Severity

Low

Impact

Test case behavior is not directly verifiable through the system UI. This creates ambiguity during scripted testing, though system behavior aligns with ATM security expectations.

[DP-11] MFT: Savings account not available in inquiry account selection menu

Created: 27/Jan/26 Updated: 31/Jan/26 Resolved: 27/Jan/26

Status:	Done
Project:	ENSF 438
Components:	None
Affects versions:	None
Fix versions:	1.0 , 1.1

Type:	Bug	Priority:	Medium
Reporter:	Prabhjodh Randhawa	Assignee:	Unassigned
Resolution:	Done	Votes:	0
Labels:	None		
Remaining Estimate:	Not Specified		
Time Spent:	Not Specified		
Original estimate:	Not Specified		

Rank:	0 i0002v:
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Description

MFT BUG TEST CASE 33 — Savings account option missing during inquiry

Environment

ATM System – Lab 1 Version 1.0

Function Being Tested

Inquiry (Checking and Savings accounts)

Initial System State

ATM powered ON

User authenticated (Card #1, PIN 42)

Checking balance = \$100

Savings balance = \$1000

Steps to Reproduce

Insert card 1

Enter PIN 42

Select Inquiry

View account selection menu

Expected Result

Menu displays both Checking, Savings and Money Market account options

Actual Result

Savings account option is missing

Only Checking and Money Market accounts are available

Severity

Medium

Impact

Limits user access to account information and reduces system usability

[DP-8] MFT: Withdrawal amount selected does not match cash dispensed	Created: 26/Jan/26 Updated: 31/Jan/26 Resolved: 27/Jan/26
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Status:	Done
Project:	ENSF 438
Components:	None
Affects versions:	1.0 , 1.1
Fix versions:	1.0 , 1.1

Type:	Bug	Priority:	Medium
Reporter:	Prabhjodh Randhawa	Assignee:	Unassigned
Resolution:	Done	Votes:	0
Labels:	None		
Remaining Estimate:	Not Specified		
Time Spent:	Not Specified		
Original estimate:	Not Specified		

Rank:	0 i00027:
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Description

MFT BUG TEST CASE 14 — Incorrect cash dispensed for \$60 withdrawal

Environment

ATM System – Lab 1 Version 1.0

Function Being Tested

Withdrawal (Checking and Savings accounts)

Initial System State

ATM powered ON

ATM initialized with sufficient cash

User authenticated (Card #1, PIN 42)

Checking balance = \$100, Savings = \$1000

Steps to Reproduce

Insert card 1

Enter PIN 42

Select Withdrawal

Select Checking (or Savings)

Choose withdrawal amount:

Option 3) \$60

Expected Result

ATM dispenses \$60

Account balance decreases by \$60

Receipt and transaction log reflect \$60

Actual Result

ATM dispenses \$100 instead of \$60

Account balance and receipt reflect \$100

Severity

Critical

Impact

Financial correctness error; customer receives more cash than requested

[DP-29] MFT: Successful PIN entry on third attempt lacks confirmation	
Created: 27/Jan/26	Updated: 29/Jan/26

Status:	To Do
Project:	ENSF 438
Components:	None
Affects versions:	None
Fix versions:	1.0

Type:	Bug	Priority:	Medium
Reporter:	Prabhjodh Randhawa	Assignee:	Unassigned
Resolution:	Unresolved	Votes:	0
Labels:	None		
Remaining Estimate:	Not Specified		
Time Spent:	Not Specified		
Original estimate:	Not Specified		

Rank:	0 i0006v:
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Description

MFT BUG TEST CASE 40 - Successful PIN entry on third attempt lacks confirmation

Function Being Tested

PIN validation feedback

Initial System State

ATM prompting for PIN re-entry after two failed attempts

Steps to Reproduce

1. Insert Card #1
2. Enter incorrect PIN twice
3. Enter correct PIN on the third attempt
4. Observe system behavior

Expected Result

System should clearly confirm successful authentication and indicate that transactions may proceed.

Actual Result

System proceeds to the transaction menu without explicitly confirming successful authentication and error persists with two entries of the correct PIN required to move ahead.

Severity

Low

Impact

User uncertainty regarding authentication success, especially in a high-risk security context.

Comments

Comment by [Nitish Vinotha](#) [27/Jan/26]

Defect still exists in version 1.1

[DP-27] [MFT: PIN retry attempts lack clear feedback](#) Created: 27/Jan/26 Updated: 29/Jan/26

Status:	To Do
Project:	ENSF 438
Components:	None
Affects versions:	None
Fix versions:	1.0

Type:	Bug	Priority:	Medium
Reporter:	Prabhjodh Randhawa	Assignee:	Unassigned
Resolution:	Unresolved	Votes:	0
Labels:	None		
Remaining Estimate:	Not Specified		
Time Spent:	Not Specified		
Original estimate:	Not Specified		

Rank:	0 i0006f:
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Description

MFT BUG TEST CASE 39 - Multiple incorrect PIN attempts lack clear retry feedback

Function Being Tested

PIN retry feedback and messaging

Initial System State

ATM prompting for PIN re-entry

Steps to Reproduce

1. Insert Card #1
2. Enter incorrect PIN
3. Enter incorrect PIN again
4. Enter correct PIN

Expected Result

System should clearly indicate remaining attempts and confirm successful authentication.

Actual Result

System accepts the correct PIN but only on the second attempt and provides minimal feedback regarding retry count or authentication status.

Severity

Low

Impact

Reduced usability and unclear security feedback during authentication retries.

Comments

Comment by [Nitish Vinotha](#) [27/Jan/26]

Defect still exists in version 1.1

[DP-23] MFT: Balance inquiry displays incorrect savings balance after transfer

Created: 27/Jan/26 Updated: 27/Jan/26

Status:	To Do
Project:	ENSF 438
Components:	None
Affects versions:	None
Fix versions:	1.0

Type:	Bug	Priority:	Medium
Reporter:	Prabhjodh Randhawa	Assignee:	Unassigned
Resolution:	Unresolved	Votes:	0
Labels:	None		
Remaining Estimate:	Not Specified		
Time Spent:	Not Specified		
Original estimate:	Not Specified		

Rank:	0 i0005j:
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Description

MFT BUG TEST CASE 34 - Inquiry displays incorrect balance due to prior transfer calculation error

Function Being Tested

Balance Inquiry (post-transfer)

Initial System State

ATM powered ON

User authenticated (Card #1, PIN 42)

Checking balance = \$100.00

Savings balance = \$1000.00

Steps to Reproduce

1. Perform a transfer of \$50 from Checking to Savings
2. Observe transfer completion
3. Select Balance Inquiry
4. Select Savings account
5. Take receipt

Expected Result

Savings balance should reflect an increase of \$50.00 from the transfer.
Inquiry receipt should display the correct updated balance.

Actual Result

Savings balance reflects an increase of only \$49.50 due to transfer calculation error.
Inquiry receipt displays this incorrect balance as if it were correct.

Severity

Medium

Impact

Balance inquiry propagates incorrect financial data caused by an earlier transfer defect.
Customers receive misleading information even though the inquiry itself appears to function correctly.

Comments

Comment by [Nitish Vinotha](#) [27/Jan/26]

Defect still exists in version 1.1

[DP-10] MFT: Deposit receipt reflects incorrect dollar amount	Created: 27/Jan/26 Updated: 31/Jan/26
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Status:	To Do
Project:	ENSF 438
Components:	None
Affects versions:	None
Fix versions:	1.0

Type:	Bug	Priority:	Medium
Reporter:	Prabhjodh Randhawa	Assignee:	Unassigned
Resolution:	Unresolved	Votes:	0
Labels:	None		
Remaining Estimate:	Not Specified		
Time Spent:	Not Specified		
Original estimate:	Not Specified		

Rank:	0 i0002n:
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Description

MFT BUG TEST CASE 22 — Receipt shows incorrect deposited amount

Environment

ATM System – Lab 1 Version 1.0

Function Being Tested

Deposit (Checking and Savings accounts)

Initial System State

ATM powered ON

User authenticated (Card #1, PIN 42)

Checking balance = \$100

Steps to Reproduce

Insert card 1

Enter PIN 42

Select Deposit

Select Checking

Enter deposit amount: \$100

Insert envelope

Expected Result

Receipt shows deposit of \$100

Account balance increases by \$100

Transaction log records correct amount

Actual Result

Receipt displays an incorrect deposit amount by reducing \$10 and deposits \$90 in this scenario

Account balance does not match the entered value

Severity

High

Impact

Causes customer confusion and incorrect financial records

Comments

Comment by [Nitish Vinotha](#) [27/Jan/26]

Defect still exists in version 1.1

[DP-18] EXP: UI text typo “Wood you like to do another transaction?”	Created: 27/Jan/26 Updated: 31/Jan/26 Resolved: 27/Jan/26
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Status:	Done
Project:	ENSF 438
Components:	None
Affects versions:	None
Fix versions:	1.0 , 1.1

Type:	Bug	Priority:	Medium
Reporter:	Thanishque Harshaa	Assignee:	Unassigned
Resolution:	Done	Votes:	0
Labels:	None		
Remaining Estimate:	Not Specified		
Time Spent:	Not Specified		
Original estimate:	Not Specified		

Rank:	0 i0004f:
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Description
Environment
ATM System – Lab 1 Version 1.0
Function Being Tested
User interface text
Steps to Reproduce
<ol style="list-style-type: none"> 1. Complete any transaction 2. Observe prompt asking for another transaction
Expected Result
<ul style="list-style-type: none"> • Message should read: “Would you like to do another transaction?”
Actual Result

- Message reads:
“Wood you like to do another transaction?”

Severity

Low

Impact

Professionalism and usability issue

[DP-17] [EXP: ATM crashes with ArrayIndexOutOfBoundsException during withdrawal](#) Created: 27/Jan/26 Updated: 31/Jan/26 Resolved: 27/Jan/26

Status:	Done
Project:	ENSF 438
Components:	None
Affects versions:	None
Fix versions:	1.0, 1.1

Type:	Bug	Priority:	Medium
Reporter:	Thanishque Harshaa	Assignee:	Unassigned
Resolution:	Done	Votes:	0
Labels:	None		
Remaining Estimate:	Not Specified		
Time Spent:	Not Specified		
Original estimate:	Not Specified		

Rank:	0 i00047:
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Description

Environment

ATM System – Lab 1 Version 1.0

Function Being Tested

Withdrawal input handling

Initial System State

- ATM ON
- User authenticated

Steps to Reproduce

1. Navigate to withdrawal amount selection
2. Rapidly press numeric keys repeatedly
3. Observe application behavior

Expected Result

- ATM should handle input safely
- No crash should occur

Actual Result

- ATM crashes

Terminal shows:

```
java.lang.ArrayIndexOutOfBoundsException
```

Severity

Critical

Impact

System crash; ATM becomes unusable

[DP-16] **[EXP: Insufficient cash available error after first withdrawal, leading to further withdrawal being blocked](#)** Created: 27/Jan/26 Updated: 31/Jan/26 Resolved: 27/Jan/26

Status:	Done
Project:	ENSF 438
Components:	None
Affects versions:	None
Fix versions:	1.0, 1.1

Type:	Bug	Priority:	Medium
Reporter:	Thanishque Harshaa	Assignee:	Unassigned
Resolution:	Done	Votes:	0
Labels:	None		
Remaining Estimate:	Not Specified		
Time Spent:	Not Specified		
Original estimate:	Not Specified		

Rank:	0 i0003z:
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Description

Environment

- ATM System – Lab 1 Version 1.0

Function Being Tested

Withdrawal cash availability and state handling

Initial System State

- ATM powered ON
- ATM initialized with limited cash
- User authenticated (Card #1, PIN 42)
- Checking balance = \$100.00

Steps to Reproduce

1. Select Withdrawal
2. Select Checking
3. Attempt to withdraw an amount greater than ATM cash on hand

4. Observe “insufficient cash available” message
5. Select Withdrawal again
6. Select Checking
7. Choose a valid amount that the ATM should be able to dispense
8. Observe system behavior

Expected Result

- ATM should reject only the invalid withdrawal request
- After rejection, ATM should allow a valid withdrawal amount
- Withdrawal options should correctly reflect remaining ATM cash
- System should recover cleanly from the insufficient-cash condition

Actual Result

- After the insufficient cash condition is triggered once:
 - ATM does not dispense cash even for valid withdrawal amounts
 - Withdrawal options become inconsistent or misleading
 - ATM remains stuck in an invalid internal state
- User is unable to complete any further withdrawals during the session

Severity

High

Impact

Financial integrity and availability issue. Once an insufficient cash condition occurs, the ATM fails to recover correctly, preventing legitimate withdrawals and leaving the system in an unusable state until reset.

[DP-12] EXP: Incorrect cash dispensed for selected withdrawal amount	
Created: 27/Jan/26 Updated: 31/Jan/26 Resolved: 27/Jan/26	

Status:	Done
Project:	ENSF 438
Components:	None
Affects versions:	None
Fix versions:	1.0 , 1.1

Type:	Bug	Priority:	Medium
Reporter:	Thanishque Harshaa	Assignee:	Unassigned
Resolution:	Done	Votes:	0
Labels:	None		
Remaining Estimate:	Not Specified		
Time Spent:	Not Specified		
Original estimate:	Not Specified		

Rank:	0 i00033:
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Description
Environment
<ul style="list-style-type: none"> ATM System – Lab 1 Version 1.0
Function Being Tested
Withdrawal (Checking and Savings accounts)
Initial System State
<ul style="list-style-type: none"> ATM powered ON ATM initialized with sufficient cash User authenticated (Card #1, PIN 42) Checking balance = \$100, Savings = \$1000
Steps to Reproduce
<ol style="list-style-type: none"> Insert card 1 Enter PIN 42 Select Withdrawal Select Checking (or Savings)

5. Choose withdrawal amount:

- Option 1) \$20, or
- Option 3) \$60, or
- Option 5) \$200

Expected Result

- ATM dispenses the exact amount selected
- Account balance decreases by that amount
- Receipt and log reflect the selected amount

Actual Result

- Selecting \$20 dispenses \$40
- Selecting \$60 dispenses \$100
- Selecting \$200 dispenses \$20
- Account balances and receipts reflect incorrect values

Severity

Critical

Impact

Severe financial correctness error; ATM dispenses incorrect cash amounts

[DP-33] [EXP-REG: Balance inquiry for Savings account fails with “Unknown error” and incorrect balance display](#) Created: 29/Jan/26 Updated: 31/Jan/26

Status:	To Do
Project:	ENSF 438
Components:	None
Affects versions:	None
Fix versions:	1.0

Type:	Bug	Priority:	Medium
Reporter:	Thanishque Harshaa	Assignee:	Unassigned
Resolution:	Unresolved	Votes:	0
Labels:	None		
Remaining Estimate:	Not Specified		
Time Spent:	Not Specified		
Original estimate:	Not Specified		

Rank:	0 i0007r:
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Description
Environment
<ul style="list-style-type: none"> ATM System – Lab 1 Version 1.1
Function Being Tested
Inquiry (Savings account)
Initial System State
<ul style="list-style-type: none"> ATM powered ON User authenticated (Card #1, PIN 42) Savings account contains deposited funds
Steps to Reproduce
<ol style="list-style-type: none"> Insert Card #1 Enter PIN 42 Select Inquiry Select Savings

Expected Result

- System displays the correct Savings balance
- Receipt shows correct balance
- No error message is shown

Actual Result

- Screen displays “Unknown error”
- A value of \$500 flashes briefly
- Inquiry transaction does not complete properly

Severity

High

Impact

Regression defect affecting a core banking function. Customers cannot reliably view Savings balances, indicating that v1.1 introduced a failure in previously expected behavior.

[DP-28] [EXP: Entering a very large deposit amount causes the ATM UI to freeze and become unresponsive](#) Created: 27/Jan/26 Updated: 31/Jan/26

Status:	To Do
Project:	ENSF 438
Components:	None
Affects versions:	None
Fix versions:	1.0

Type:	Bug	Priority:	Medium
Reporter:	Thanishque Harshaa	Assignee:	Unassigned
Resolution:	Unresolved	Votes:	0
Labels:	None		
Remaining Estimate:	Not Specified		
Time Spent:	Not Specified		
Original estimate:	Not Specified		

Rank:	0 i0006n:
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Description

Environment

- ATM System – Lab 1 Version 1.0

Function Being Tested

Deposit amount input handling / validation (large numeric values)

Initial System State

- ATM powered ON
- User authenticated (Card #1, PIN 42)
- User navigated to Deposit flow (any account)

Steps to Reproduce

1. Insert Card #1
2. Enter PIN 42
3. Select Deposit
4. Select an account (e.g., Checking)

5. Enter deposit amount: 99999999.99
6. Press ENTER

Expected Result

System should validate the input and either:

- accept it and proceed normally, or
- reject it with a clear “amount too large/invalid” message
- UI remains responsive and user can continue or cancel

Actual Result

- ATM becomes unresponsive / appears frozen
- UI remains stuck on the ATM simulation screen and does not proceed
- No error message is shown
- Requires restarting the application to recover

Severity

High

Impact

Denial-of-service style failure: a single large input can freeze the ATM simulation, preventing further use and requiring restart. Also indicates missing input bounds / potential numeric overflow issues.

[DP-26] **EXP: ATM allows a transfer of \$0.00 to be processed and recorded as a transaction** Created: 27/Jan/26 Updated: 31/Jan/26

Status:	To Do
Project:	ENSF 438
Components:	None
Affects versions:	None
Fix versions:	1.0

Type:	Bug	Priority:	Medium
Reporter:	Thanishque Harshaa	Assignee:	Unassigned
Resolution:	Unresolved	Votes:	0
Labels:	None		
Remaining Estimate:	Not Specified		
Time Spent:	Not Specified		
Original estimate:	Not Specified		

Rank:	0 i00067:
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Description

Environment

- ATM System – Lab 1 Version 1.0

Function Being Tested

Transfer input validation (Checking ↔ Savings)

Initial System State

- ATM powered ON
- User authenticated (Card #1, PIN 42)
- Checking and Savings accounts available for transfer

Steps to Reproduce

1. Insert Card #1
2. Enter PIN 42
3. Select Transfer
4. Choose From: Checking

5. Choose To: Savings
6. Enter transfer amount: 0
7. Press ENTER / Confirm
8. Take receipt

Expected Result

- System rejects \$0 transfers (must be a positive amount)
- No “successful transfer” receipt should be generated
- No balances should change

Actual Result

ATM processes the transfer and prints a receipt showing:

AMOUNT: \$-0.50

- Transaction is recorded as if it were valid (TRANS #1)

Severity

Medium

Impact

Invalid transactions are allowed, cluttering transaction logs/receipts and undermining input validation. This can confuse customers and complicate auditing.

[DP-22] [EXP: ATM accepts a \\$0.00 deposit and decreases account total balance by \\$10.00](#) Created: 27/Jan/26 Updated: 31/Jan/26

Status:	To Do
Project:	ENSF 438
Components:	None
Affects versions:	None
Fix versions:	1.0

Type:	Bug	Priority:	Medium
Reporter:	Thanishque Harshaa	Assignee:	Unassigned
Resolution:	Unresolved	Votes:	0
Labels:	None		
Remaining Estimate:	Not Specified		
Time Spent:	Not Specified		
Original estimate:	Not Specified		

Rank:	0 i0005b:
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Description

Environment

- ATM System – Lab 1 Version 1.0

Function Being Tested

Deposit input validation (Checking)

Initial System State

- ATM powered ON
- User authenticated (Card #1, PIN 42)
- Checking balance = \$100.00

Steps to Reproduce

1. Insert Card #1
2. Enter PIN 42
3. Select Deposit
4. Select Checking

5. Enter deposit amount: 0
6. Press ENTER
7. Take receipt

Expected Result

- System rejects \$0 deposits (must be a positive amount)
- No receipt indicating a successful deposit
- Checking balance remains unchanged

Actual Result

Receipt shows:

AMOUNT: \$0.00

TOTAL BAL: \$90.00

AVAILABLE: \$100.00

- ATM accepts a \$0 deposit
- Total balance decreases by \$10.00 despite no money deposited
- Total and available balances become inconsistent

Severity

High

Impact

Financial correctness error: invalid transactions are allowed and account balances are modified incorrectly, creating reconciliation and trust issues.

**[DP-20] EXP: Transfer receipt displays incorrect source/destination accounts
(shows SVGS→CHKG when balances reflect CHKG→SVGS)**

Created: 27/Jan/26 Updated:

31/Jan/26

Status:	To Do
Project:	ENSF 438
Components:	None
Affects versions:	None
Fix versions:	1.0

Type:	Bug	Priority:	Medium
Reporter:	Thanishque Harshaa	Assignee:	Unassigned
Resolution:	Unresolved	Votes:	0
Labels:	None		
Remaining Estimate:	Not Specified		
Time Spent:	Not Specified		
Original estimate:	Not Specified		

Rank:	0 i0004v:
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Description

Environment

- ATM System – Lab 1 Version 1.0

Function Being Tested

Transfer between Checking and Savings (receipt + transaction reporting)

Initial System State

- ATM powered ON
- User authenticated (Card #1, PIN 42)
- Checking balance = \$100.00
- Savings balance = \$1000.00

Steps to Reproduce

1. Insert Card #1
2. Enter PIN 42

3. Select Transfer
4. Perform a \$40 transfer between Checking and Savings
5. Take receipt
6. Perform Balance Inquiry for Checking
7. Perform Balance Inquiry for Savings

Expected Result

Receipt correctly states the transfer direction (FROM account and TO account)
Balances match the direction shown on the receipt

- If receipt says SVGS → CHKG, then Savings should decrease and Checking should increase
- If receipt says CHKG → SVGS, then Checking should decrease and Savings should increase

Actual Result

Transfer receipt shows: TRANSFER FROM: SVGS TO: CHKG, AMOUNT: \$40.00
Immediately after, balance inquiries show:

- Checking = \$60.00
 - Savings = \$1040.00
- These balances indicate \$40 moved from Checking → Savings, which contradicts the receipt direction

Severity

Medium

Impact

Audit/reconciliation issue: transaction records are misleading. Customers and bank staff cannot trust receipts to confirm where funds actually moved.

[DP-19] [EXP: Deposit to Checking account produces incorrect total and available balances](#) Created: 27/Jan/26 Updated: 31/Jan/26

Status:	To Do
Project:	ENSF 438
Components:	None
Affects versions:	None
Fix versions:	1.0

Type:	Bug	Priority:	Medium
Reporter:	Thanishque Harshaa	Assignee:	Unassigned
Resolution:	Unresolved	Votes:	0
Labels:	None		
Remaining Estimate:	Not Specified		
Time Spent:	Not Specified		
Original estimate:	Not Specified		

Rank:	0 i0004n:
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Description

Environment

- ATM System – Lab 1 Version 1.0

Function Being Tested

Deposit (Checking account)

Initial System State

ATM powered ON

User authenticated (Card #1, PIN 42)

Checking balance = \$100.00

Savings balance unchanged

Steps to Reproduce

1. Insert Card #1
2. Enter PIN 42
3. Select **Deposit**
4. Select **Checking**
5. Enter deposit amount: **\$500**
6. Press **ENTER**
7. Insert deposit envelope
8. Take receipt

Expected Result

- Checking balance increases by \$500
- Total balance becomes \$600.00
- Available balance reflects correct updated amount
- Receipt values are internally consistent

Actual Result

Receipt shows:

- **Deposit Amount:** \$500.00
- **Total Balance:** \$599.90
- **Available Balance:** \$100.00
 - Total balance is incorrect
 - Available balance does not update after deposit
 - Deposit calculation appears inconsistent

Severity

High

Impact

Incorrect financial reporting; customer balances are inaccurate after deposit, leading to loss of trust and potential reconciliation errors.

[DP-15] EXP: DEPOSITED amount to SAVINGS account is incorrect	
Created: 27/Jan/26	Updated: 31/Jan/26

Status:	To Do
Project:	ENSF 438
Components:	None
Affects versions:	None
Fix versions:	1.0

Type:	Bug	Priority:	Medium
Reporter:	Thanishque Harshaa	Assignee:	Unassigned
Resolution:	Unresolved	Votes:	0
Labels:	None		
Remaining Estimate:	Not Specified		
Time Spent:	Not Specified		
Original estimate:	Not Specified		

Rank:	0 i0003r:
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Description
Environment
ATM System – Lab 1 Version 1.0
Function Being Tested
Deposit amount input handling
Initial System State
<ul style="list-style-type: none"> • ATM ON • Savings balance = \$1000 • User authenticated (Card #1, PIN 42)
Steps to Reproduce
<ol style="list-style-type: none"> 1. Select Deposit 2. Select Savings 3. Enter 20 4. Press ENTER 5. Insert envelope

6. Take receipt

Expected Result

- Deposit amount = \$20
- Savings balance becomes \$1020

Actual Result

- Receipt shows deposit of \$20
- Savings balance becomes \$1010
- Internal input not fully cleared

Severity

High

Impact

Incorrect financial transaction due to stale input buffer

[DP-14] EXP: Receipt displays incorrect card number Created: 27/Jan/26 Updated: 31/Jan/26

Status:	To Do
Project:	ENSF 438
Components:	None
Affects versions:	None
Fix versions:	1.0

Type:	Bug	Priority:	Medium
Reporter:	Thanishque Harshaa	Assignee:	Unassigned
Resolution:	Unresolved	Votes:	0
Labels:	None		
Remaining Estimate:	Not Specified		
Time Spent:	Not Specified		
Original estimate:	Not Specified		

Rank:	0 i0003j:
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Description**Initial System State**

- ATM ON
- User logged in with Card #1 (PIN 42)

Steps to Reproduce

1. Insert card 1
2. Enter PIN 42
3. Perform a withdrawal or inquiry
4. Take receipt

Expected Result

- Receipt shows CARD 1

Actual Result

- Receipt displays CARD 2
- ATM log later shows correct card number

Severity

Medium

Impact

Audit and traceability error; incorrect customer identification

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