[ASBT-21] EXP: Can't check Money Market Balance Created: 03/Feb/25 Updated: 03/Feb/25 Resolved: 03/Feb/25

Status:	Resolved
Project:	ATM System Bug Tracker
Components:	None
Affects versions:	1.0
Fix versions:	1.1

Type:	Bug	**Priority:**	High
Reporter:	Mohammad Abu Saleh	**Assignee:**	Mohammad Abu Saleh
Resolution:	Done	**Votes:**	0
Labels:	None		
Remaining Estimate:	Not Specified		
Time Spent:	Not Specified		
Original estimate:	Not Specified		

Function being tested:	Balance Inquiry - Check balance for linked accounts - Money Market
Initial State:	Enter Card # 2 and PIN # 1234 > ATM is asking "Please choose transaction type"
Steps to reproduce:	- Select "4) Balance Inquiry" - Select "2) Money Market"
Expected outcome:	ATM displays Money Market balance
Acutal outcome:	ATM displayed Error message "Invalid account type"

Description

Case 18: Balance Inquiry - Check balance for linked accounts - Money Market

- Initial State:
    - Click to insert card
    - Enter Card # 2 and PIN # 1234
    - ATM is asking "Please choose transaction type"
- Steps:
    - Select "4) Balance Inquiry"
    - Select "2) Money Market"
- Expected Outcome: ATM displays Money Market balance
- Actual Outcome: ATM displayed Error message "Invalid account type"
- Bug Description: Can't check Money Market Balance
- Severity of the Bug: High
- SUT Version: 1.0
- Regression Testing Results for V1.1 : Bug fixed, Money Market balance is displayed

Comments

Comment by Mohammad Abu Saleh [03/Feb/25]

Regression Testing Results for V1.1 : Bug fixed, Money Market balance is displayed

[ASBT-20] EXP: ATM dispenses $500 when checking balance Created: 03/Feb/25 Updated: 03/Feb/25

Status:	In Progress
Project:	ATM System Bug Tracker
Components:	None
Affects versions:	1.0
Fix versions:	None

Type:	Bug	Priority:	Highest
Reporter:	Mohammad Abu Saleh	Assignee:	Mohammad Abu Saleh
Resolution:	Unresolved	Votes:	0
Labels:	None		
Remaining Estimate:	Not Specified		
Time Spent:	Not Specified		
Original estimate:	Not Specified		

Function being tested:	Balance Inquiry - Check balance for linked accounts - Savings
Initial State:	Enter Card # 1 and PIN # 42 > ATM is asking "Please choose transaction type"
Steps to reproduce:	- Select "4) Balance Inquiry" - Select "2) Money Market"
Expected outcome:	ATM Displays error message "Invalid account type"
Acutal outcome:	ATM displays error message "Unknown Error" and thn ATM dispenses $500

Description

Case 16: Balance Inquiry - Check balance for linked accounts - Savings

- Initial State:
    - Click to insert card
    - Enter Card # 1 and PIN # 42
    - ATM is asking "Please choose transaction type"
- Steps:
    - Select "4) Balance Inquiry"
    - Select "2) Money Market"
- Expected Outcome: ATM Displays error message "Invalid account type"
- Actual Outcome:
    - ATM displays error message "Unknown Error"
    - ATM displays Savings account balance
    - ATM dispenses $500
- Bug Description:
    - ATM displays error message "Unknown Error"
    - ATM dispenses $500 when checking balance
- Severity of the Bug: Very High
- SUT Version: 1.0
- Regression Testing Results for V1.1 : Bug still exists
    - ATM displays error message "Unknown Error"
    - ATM dispenses $500 when checking balance

Comments

Comment by Mohammad Abu Saleh [03/Feb/25]

- Regression Testing Results for V1.1 : Bug still exists
    - ATM displays error message "Unknown Error"
    - ATM dispenses $500 when checking balance

[ASBT-19] EXP: No Savings Account in Balance Inquiry list Created: 03/Feb/25 Updated: 03/Feb/25 Resolved: 03/Feb/25

Status:	Resolved
Project:	ATM System Bug Tracker
Components:	None
Affects versions:	1.0
Fix versions:	1.1

Type:	Bug	**Priority:**	High
Reporter:	Mohammad Abu Saleh	**Assignee:**	Mohammad Abu Saleh
Resolution:	Done	**Votes:**	0
Labels:	None		
Remaining Estimate:	Not Specified		
Time Spent:	Not Specified		
Original estimate:	Not Specified		

Function being tested:	Balance Inquiry - Check balance for linked accounts - Savings
Initial State:	Enter Card # 1 and PIN # 42 > ATM is asking "Please choose transaction type"
Steps to reproduce:	• Select "4) Balance Inquiry"
Expected outcome:	ATM Display option for Savings account
Acutal outcome:	No Savings Account in Balance Inquiry list

Comments

Comment by Mohammad Abu Saleh [03/Feb/25]
Regression Testing Results for V1.1 : Bug fixed, Savings account is now in the list

[ASBT-18] EXP: ATM asks for amount to Deposit even if account type is invalid Created: 03/Feb/25 Updated: 03/Feb/25

Status:	In Progress
Project:	ATM System Bug Tracker
Components:	None
Affects versions:	1.0
Fix versions:	1.1

Type:	Bug	Priority:	Low
Reporter:	Mohammad Abu Saleh	Assignee:	Mohammad Abu Saleh
Resolution:	Unresolved	Votes:	0
Labels:	None		
Remaining Estimate:	Not Specified		
Time Spent:	Not Specified		
Original estimate:	Not Specified		

Function being tested:	Deposit Transactions - Invalid Account Type
Initial State:	ATM is asking "Please choose transaction type"
Steps to reproduce:	- Select "2) Deposit" - Select "2) Saving" - Enter "Amount to deposit" $40 - Bug Description: ATM asks for amount even if account type is invalid
Expected outcome:	ATM displays Error message Invalid Account type before amount is requested
Acutal outcome:	ATM displayed Error message Invalid Account type after amount is requested

Description

Case: Deposit Transactions - Invalid Account Type

- Initial State:
  - Click to insert card
  - Enter Card # 2 and PIN # 1234
  - ATM is asking "Please choose transaction type"
- Steps:
  - Select "2) Deposit"
  - Select "2) Saving"
  - Enter "Amount to deposit" $40
  - Click to insert envelope
- Expected Outcome: ATM displays Error message Invalid Account type
- Actual Outcome: ATM displayed Error message Invalid Account type
- Bug Description: ATM asks for envelope even if account type is invalid
- Severity of the Bug: Medium
- SUT Version: 1.0
- Regression Testing Results for V1.1 : Bug fixed

Comments

Comment by Mohammad Abu Saleh [03/Feb/25]

- Regression Testing Results for V1.1 : Bug still exist

[ASBT-17] EXP: ATM dispenses $20 when selecting any invalid option in any screen Created: 03/Feb/25 Updated: 03/Feb/25

Status:	In Progress
Project:	ATM System Bug Tracker
Components:	None
Affects versions:	1.0
Fix versions:	1.0

Type:	Bug	**Priority:**	Highest
Reporter:	Mohammad Abu Saleh	**Assignee:**	Mohammad Abu Saleh
Resolution:	Unresolved	**Votes:**	0
Labels:	None		
Remaining Estimate:	Not Specified		
Time Spent:	Not Specified		
Original estimate:	Not Specified		

Function being tested:	Cash Withdrawal - Withdraw invalid Option
Initial State:	Card 1 is entered and machine asking "Please choose transaction type"
Steps to reproduce:	- Select "1) Withdrawal" - Select "2) Checking" - Select "6" - Bug Description: - ATM dispenses $20 without any transaction being made when selecting invalid withdrawal options - ATM dispenses $20 when selecting any invalid option in any screen
Expected outcome:	Information Message to select valid option
Acutal outcome:	ATM Windraws $20

Description

Case 8: Cash Withdrawal - Withdraw invalid Option

- Initial State:
  - Card 1 is entered and machine asking "Please choose transaction type"
- Steps:
  - Select "1) Withdrawal"
  - Select "2) Checking"
  - Select "6"
- Expected Outcome: Information Message to select valid option
- Actual Outcome: ATM Windraws $20
- Bug Description:
  - ATM dispenses $20 without any transaction being made when selecting invalid withdrawal options
  - ATM dispenses $20 when selecting any invalid option in any screen
- Severity of the Bug: Very High
- SUT Version: 1.0
- Regression Testing Results for V1.1 : Bug still exists

Comments

Comment by Mohammad Abu Saleh [03/Feb/25]

Regression Testing Results for V1.1 : Bug still exists

[ASBT-16] EXP: ATM accepts duplicate cards after being retained by the ATM Created: 03/Feb/25 Updated: 03/Feb/25

Status:	In Progress
Project:	ATM System Bug Tracker
Components:	None
Affects versions:	1.0
Fix versions:	1.0

Type:	Bug	Priority:	Medium
Reporter:	Mohammad Abu Saleh	Assignee:	Mohammad Abu Saleh
Resolution:	Unresolved	Votes:	0
Labels:	None		
Remaining Estimate:	Not Specified		
Time Spent:	Not Specified		
Original estimate:	Not Specified		

Function being tested:	Authentication & Card Handling - Insert Retained Card
Initial State:	ATM retained Card # 1 and ATM is asking "Please insert your card"
Steps to reproduce:	- Click to insert card - Enter Card # 1 - Enter PIN # 42
Expected outcome:	The ATM shouldn't accept a duplicate card
Acutal outcome:	The ATM accepts a duplicate card

Description

- Initial State:
  - ATM retained Card # 1
  - ATM is asking "Please insert your card"
- Steps:
  - Click to insert card
  - Enter Card # 1
  - Enter PIN # 42
- Expected Outcome: The ATM shouldn't accept a duplicate card
- Actual Outcome: The ATM accepts a duplicate card
- Bug Description: ATM accepts duplicate cards after being retained by the ATM
- Severity of the Bug: Medium
- SUT Version: 1.0

Comments

Comment by Mohammad Abu Saleh [03/Feb/25]

Regression Testing Results for V1.1 : Bug still exists

[ASBT-15] MFT: ATM dispenses an incorrect amount Created: 03/Feb/25 Updated: 03/Feb/25 Resolved: 03/Feb/25

Status:	Resolved
Project:	ATM System Bug Tracker
Components:	None
Affects versions:	1.0
Fix versions:	1.1

Type:	Bug	**Priority:**	Highest
Reporter:	Ahmed Shehata	**Assignee:**	Ahmed Shehata
Resolution:	Done	**Votes:**	0
Labels:	None		
Remaining Estimate:	Not Specified		
Time Spent:	Not Specified		
Original estimate:	Not Specified		

Function being tested:	System performs a legitimate withdrawal transaction properly
Initial State:	System is displaying the menu of withdrawal amounts
Steps to reproduce:	**Start the ATM system** *(V1.0)*. **Insert Card Number:** 1 and press **Enter**. - Enter **PIN: 42** and select **Withdrawal**. - Choose **Checking Account**. - Enter a valid withdrawal amount (e.g., **$20**). - Press **Enter**.
Expected outcome:	System dispenses this amount of cash; System prints a correct receipt showing amount and correct updated balance; System records transaction correctly in the log (showing both message to the bank and approval back)
Acutal outcome:	ATM dispenses an incorrect amount (e.g., user selects $20, but ATM gives $40). Incorrect balance deduction (e.g., balance reflect the wrong withdrawal amount). Transaction log contain incorrect values.

Description

When a user attempts to withdraw **a valid amount**, the ATM does not dispense the correct amount. In some cases, it **dispenses more than requested**, and in other cases, it **dispenses less**. This issue may be due to miscalculations in the withdrawal logic or a hardware/software malfunction in the cash dispenser module.

Comments

Comment by Ahmed Shehata [03/Feb/25]
Retested in ATM System Version 1.1. Bug is now fixed, withdrawals dispense the correct amount.
Comment by Muhammad Khalid [03/Feb/25]
Retested in Version 1.1. Issue is fixed. The ATM now properly displays an 'Insufficient Funds' message instead of withdrawing an incorrect amount.
Comment by Muhammad Khalid [03/Feb/25]
dispensing correct amount

[ASBT-14] MFT: Incorrect Deposit Amount Created: 03/Feb/25 Updated: 03/Feb/25 Resolved: 03/Feb/25

Status:	Resolved
Project:	ATM System Bug Tracker
Components:	None
Affects versions:	1.1
Fix versions:	1.1

Type:	Bug	**Priority:**	Highest
Reporter:	Mohammad Abu Saleh	**Assignee:**	Mohammad Abu Saleh
Resolution:	Duplicate	**Votes:**	0
Labels:	None		
Remaining Estimate:	Not Specified		
Time Spent:	Not Specified		
Original estimate:	Not Specified		

Function being tested:	System performs a legitimate deposit transaction properly
Initial State:	System is requesting that customer insert an envelope
Steps to reproduce:	Input: Insert an envelope Insert Card # 1 / PIN # 42 Select: Deposit > Select: Checking > Enter: $100 Receipt: Sun Feb 02 21:19:07 MST 2025 First National Bank of Podunk ATM #42 Gordon College CARD 2 TRANS #1 DEPOSIT TO: CHKG AMOUNT: $100.00 TOTAL BAL: $199.90 AVAILABLE: $100.00 Log: Message: INIT_DEP CARD# 1 TRANS# 1 NO FROM TO 0 $100.00 Response: SUCCESS Envelope: received Message: COMP_DEP CARD# 1 TRANS# 1 NO FROM TO 0 $100.00 Response: SUCCESS
Expected outcome:	System accepts envelope; System prints a correct receipt showing amount and correct updated balance; System records transaction correctly in the log (showing message to the bank, approval back, and acceptance of the envelope)
Acutal outcome:	Amount Deposited has $0.10 deducted

Description
Receipt: Sun Feb 02 21:19:07 MST 2025 First National Bank of Podunk ATM #42 Gordon College CARD 2 TRANS #1 DEPOSIT TO: CHKG AMOUNT: $100.00 TOTAL BAL: $199.90 AVAILABLE: $100.00 Log: Message: INIT_DEP CARD# 1 TRANS# 1 NO FROM TO 0 $100.00 Response: SUCCESS Envelope: received

Message: COMP_DEP CARD# 1 TRANS# 1 NO FROM TO 0 $100.00
Response: SUCCESS

[ASBT-13] MFT: Reciept Reverses the Order of Accounts in the Transfer Receipt Created: 03/Feb/25 Updated: 03/Feb/25

Status:	In Progress
Project:	ATM System Bug Tracker
Components:	None
Affects versions:	1.0
Fix versions:	1.0

Type:	Bug	Priority:	Low
Reporter:	Mohammad Abu Saleh	Assignee:	Mohammad Abu Saleh
Resolution:	Unresolved	Votes:	0
Labels:	None		
Remaining Estimate:	Not Specified		
Time Spent:	Not Specified		
Original estimate:	Not Specified		

Function being tested:	System performs a legitimate transfer transaction properly
Initial State:	System is displaying a request for the customer to type a dollar amount
Steps to reproduce:	Card # 1 / PIN # 24 Select: Transfer - From: Checking - To: Saving Input: Enter a legitimate dollar amount / 100$
Expected outcome:	System prints a correct receipt showing amount and correct updated balance; System records transaction correctly in the log (showing both message to the bank and approval back)
Acutal outcome:	Reciept reverses the order of accounts in the transfer "TRANSFER FROM: SVGS TO: CHKG"

Description

Use Case: Card # 1 / PIN # 42 - Transfer from Checking to Saving Account

Function Being Tested: System performs a legitimate transfer transaction properly

Initial System State: System is displaying a request for the customer to type a dollar amount

Input: Enter a legitimate dollar amount

Expected Output: System prints a correct receipt showing amount and correct updated balance; System records transaction correctly in the log (showing both message to the bank and approval back)

Actual Output: Receipt reverses the order of accounts in the transfer "TRANSFER FROM: SVGS TO: CHKG"

Comments

Comment by Mohammad Abu Saleh [03/Feb/25]

Regression Testing Results for V1.1 : Bug fixed

Select: Transfer > Select From: Checking > Select To: Saving > Input: $100

Receipt:
Sun Feb 02 21:32:49 MST 2025
First National Bank of Podunk
ATM #42 Gordon College
CARD 2 TRANS #7
TRANSFER FROM: SVGS TO: CHKG
AMOUNT: $100.00
TOTAL BAL: $1100.00
AVAILABLE: $1100.00

Log:
Message: TRANSFER CARD# 1 TRANS# 7 FROM 0 TO 1 $100.00
Response: SUCCESS

[ASBT-10] MFT: Correct re-entry of PIN on the second try is asked to enter PIN again Created: 03/Feb/25 Updated: 03/Feb/25

Status:	In Progress
Project:	ATM System Bug Tracker
Components:	None
Affects versions:	1.0
Fix versions:	None

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

Function being tested:	Correct re-entry of PIN on the second try is accepted
Initial State:	Request to re-enter is being displayed
Steps to reproduce:	1. insert card 2. enter card number 1 3. enter an incorrect PIN 4. enter an incorrect PIN again 5. enter a correct PIN
Expected outcome:	System should display transaction types
Acutal outcome:	System asks to enter PIN

Comments

Comment by Jinyu Wang [03/Feb/25]
Defect still exists in version 1.1

[ASBT-9] MFT: Correct re-entry of PIN is asked to enter the pin again Created: 03/Feb/25 Updated: 03/Feb/25

Status:	In Progress
Project:	ATM System Bug Tracker
Components:	None
Affects versions:	1.0
Fix versions:	None

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

Function being tested:	Invalid PIN extension
Initial State:	Request to re-enter is being displayed
Steps to reproduce:	1. Insert card 2. choose card number 1 3. enter an invalid pin 4. enter a correct pin
Expected outcome:	System should display transaction types
Acutal outcome:	System asks to enter PIN

Comments

Comment by Jinyu Wang [03/Feb/25]
Defect still exists in version 1.1

[ASBT-8] EXP: Transfer amount is reduced by $0.5 Created: 03/Feb/25 Updated: 03/Feb/25 Resolved: 03/Feb/25

Status:	Resolved
Project:	ATM System Bug Tracker
Components:	None
Affects versions:	1.0
Fix versions:	1.1

Type:	Bug	**Priority:**	High
Reporter:	Muhammad Khalid	**Assignee:**	Unassigned
Resolution:	Done	**Votes:**	0
Labels:	None		
Remaining Estimate:	Not Specified		
Time Spent:	Not Specified		
Original estimate:	Not Specified		

Function being tested:	Fund Transfer - Transfer between valid accounts linked to the card.
Initial State:	ATM is powered on, user logged in with Card 1
Steps to reproduce:	1. Insert **Card 1** → Enter PIN **42** 2. Select **Transfer** → **Money Market to Checking** 3. Enter **$20** 4. Check the updated balance
Expected outcome:	The balance should increase by $20
Acutal outcome:	Only $19.50 is added ($0.5 not transferred)

Description

When transferring $20 from Money Market to Checking, only $19.50 is credited to the Checking account. The system deducts 50 cents unexpectedly.

Comments

Comment by Mohammad Abu Saleh [03/Feb/25]

Issue fixed in V1.1:

Use Case: Transfer

Function Being Tested: System performs a legitimate transfer transaction properly

Initial System State: System is displaying a request for the customer to type a dollar amount

Input: Enter a legitimate dollar amount

Expected Output: System prints a correct receipt showing amount and correct updated balance; System records transaction correctly in the log (showing both message to the bank and approval back)

Actual Output: Amount transferred correctly

Select Transfer > From Checking > To Saving > Amount $100

Receipt:
Sun Feb 02 21:32:49 MST 2025
First National Bank of Podunk
ATM #42 Gordon College
CARD 2 TRANS #7
TRANSFER FROM: SVGS TO: CHKG
AMOUNT: $100.00
TOTAL BAL: $1100.00
AVAILABLE: $1100.

Log:
Message: TRANSFER CARD# 1 TRANS# 7 FROM 0 TO 1 $100.00
Response: SUCCESS

[ASBT-7] EXP: No option available to check balance for Savings Created: 03/Feb/25 Updated: 03/Feb/25 Resolved: 03/Feb/25

Status:	Resolved
Project:	ATM System Bug Tracker
Components:	None
Affects versions:	1.0
Fix versions:	1.0

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

Function being tested:	Balance Inquiry
Initial State:	ATM is powered on, user logged in with Card 1
Steps to reproduce:	**Steps to Reproduce:** 1. Insert **Card 1** → Enter PIN **42** 2. Select **Balance Inquiry** 3. Look for Savings account balance
Expected outcome:	Should display Savings Account balance
Acutal outcome:	No option available to check balance for Savings

Description

The ATM does not provide an option to check the Savings account balance, limiting users from verifying their funds.

Comments

Comment by Muhammad Khalid [03/Feb/25]

balance is shown but it is incorrect

[ASBT-6] EXP: Transfer from Checking to Savings shows "Invalid Account Type" Created: 03/Feb/25 Updated: 03/Feb/25

Status:	In Progress
Project:	ATM System Bug Tracker
Components:	None
Affects versions:	1.0
Fix versions:	1.0

Type:	Bug	Priority:	High
Reporter:	Muhammad Khalid	Assignee:	Muhammad Khalid
Resolution:	Unresolved	Votes:	0
Labels:	None		
Remaining Estimate:	Not Specified		
Time Spent:	Not Specified		
Original estimate:	Not Specified		

Function being tested:	Fund Transfer
Initial State:	ATM is powered on, user logged in with Card 1
Steps to reproduce:	**Steps to Reproduce:** 1. Insert **Card 1** → Enter PIN **42** 2. Select **Transfer** → **Checking to Savings** 3. Enter **$50**
Expected outcome:	The transfer should work without errors
Acutal outcome:	"Invalid Account Type" error appears

Description

Transferring money from Checking to Savings results in an "Invalid Account Type" error, preventing valid transactions.

[ASBT-5] EXP: ATM deducts $10 from deposit amounts Created: 03/Feb/25 Updated: 03/Feb/25

Status:	In Progress
Project:	ATM System Bug Tracker
Components:	None
Affects versions:	1.0
Fix versions:	1.0

Type:	Bug	**Priority:**	Highest
Reporter:	Muhammad Khalid	**Assignee:**	Muhammad Khalid
Resolution:	Unresolved	**Votes:**	0
Labels:	None		
Remaining Estimate:	Not Specified		
Time Spent:	Not Specified		
Original estimate:	Not Specified		

Function being tested:	Deposit Transactions - Valid Account Type
Initial State:	ATM is powered on, user logged in with Card 1, Checking Account balance is $40
Steps to reproduce:	**Steps to Reproduce:** 1. Insert **Card 1** → Enter PIN **42** 2. Select **Deposit** → **Checking** 3. Enter **$5000** 4. Click **Insert Envelope** 5. Check the updated balance
Expected outcome:	The balance should increase by $5000
Acutal outcome:	Balance only increased by $5030 (missing $10)

Description

When depositing $5000, the balance should increase by $5000. However, it only increases by $5030, meaning $10 is missing.

Comments

Comment by Mohammad Abu Saleh [03/Feb/25]

Regression Testing Results for V1.1 : Bug still exists, amount deposited deducted by $0.10 instead of $10

[ASBT-4] EXP: System crashes when entering a PIN longer than 9 digits Created: 03/Feb/25   Updated: 03/Feb/25

Status:	In Progress
Project:	ATM System Bug Tracker
Components:	None
Affects versions:	1.0
Fix versions:	None

Type:	Bug	Priority:	High
Reporter:	Ahmed Shehata	Assignee:	Muhammad Khalid
Resolution:	Unresolved	Votes:	0
Labels:	None		
Remaining Estimate:	Not Specified		
Time Spent:	Not Specified		
Original estimate:	Not Specified		

Function being tested:	User Authentication (PIN Entry)
Initial State:	ATM System is powered on and idle, waiting for card insertion.
Steps to reproduce:	**Start the ATM system** *(V1.0)*. **Insert Card Number:** 1 and press **Enter**. - When prompted for a PIN, enter **"1234567890"** *(10 digits or more)*. - Press **Enter**.
Expected outcome:	The system should display an error message: "Invalid PIN length". The user should be allowed to re-enter a valid PIN.
Acutal outcome:	The ATM system crashes immediately. No error message is displayed.

Description

When a user enters a PIN with more than 9 digits, the ATM system crashes instead of handling the invalid input gracefully. This issue may be caused by an integer overflow or input validation failure.

[ASBT-3] EXP: ATM deposit does not credit full amount Created: 03/Feb/25 Updated: 03/Feb/25 Resolved: 03/Feb/25

Status:	Resolved
Project:	ATM System Bug Tracker
Components:	None
Affects versions:	1.0
Fix versions:	1.0

Type:	Bug	**Priority:**	Medium
Reporter:	Muhammad Khalid	**Assignee:**	Muhammad Khalid
Resolution:	Duplicate	**Votes:**	0
Labels:	None		
Remaining Estimate:	Not Specified		
Time Spent:	Not Specified		
Original estimate:	Not Specified		

Function being tested:	Deposit Function
Initial State:	ATM is powered on, user logged in with Card 1
Steps to reproduce:	**Steps to Reproduce:** 1. Insert **Card 1** → Enter PIN **42** 2. Select **Deposit** → **Checking** 3. Enter **$50** 4. Click **Insert Envelope** 5. Check the updated balance
Expected outcome:	The balance should increase by $50
Acutal outcome:	Balance only increased by $40 (missing $10)

Description

When depositing $50 into the Checking account, only $40 is credited to the balance. The system deducts $10 without explanation.

[ASBT-2] EXP: ATM withdraws incorrect amounts when selecting withdrawal options Created: 03/Feb/25 Updated: 03/Feb/25

Resolved: 03/Feb/25

Status:	Resolved
Project:	ATM System Bug Tracker
Components:	None
Affects versions:	1.0
Fix versions:	None

Type:	Bug	**Priority:**	Highest
Reporter:	Muhammad Khalid	**Assignee:**	Unassigned
Resolution:	Done	**Votes:**	0
Labels:	None		
Remaining Estimate:	Not Specified		
Time Spent:	Not Specified		
Original estimate:	Not Specified		

Function being tested:	Withdraw Function
Initial State:	ATM is powered on, user logged in with Card 1
Steps to reproduce:	1. Insert **Card 1** → Enter PIN **42** 2. Select **Withdraw** → **Checking** 3. Choose **$40** when the balance is **$60** 4. **ATM withdraws $60 instead of $40** 5. Try withdrawing **$200 when balance is $100** → **ATM withdraws only $20 instead**
Expected outcome:	The ATM should withdraw only the selected amount
Acutal outcome:	ATM withdraws incorrect amounts, causing account balance errors - The ATM withdraws from the next option in the list instead of the selected option

Description

The ATM does not withdraw the selected amount. When attempting to withdraw $40, it withdraws $60 instead. When attempting to withdraw $200 with a $100 balance, it withdraws only $20.

Comments

Comment by Muhammad Khalid [03/Feb/25]

Retested in Version 1.1. Issue is fixed. The ATM now correctly withdraws the exact amount requested.

Generated at Mon Feb 03 23:46:13 GMT 2025 by Mohammad Abu Saleh using Jira 1001.0.0-SNAPSHOT#100278-
rev:ae82ef4bb57fe82cdd0c2959341b60c117b4af00.

Exploratory Testing

Testing Parameters:
There are two valid hard-coded card numbers and PINs:

      Card Number: 1 PIN: 42 Available Accounts: Checking and Savings

      Card Number: 2 PIN: 1234 Available Accounts: Checking and Money Market Note:

Both of these cards access the same checking account.

The initial balances are: Checking: $100 Savings: $1,000 Money Market: $5,000

Case 1: Authentication & Card Handling - Insert valid ATM card.
- Initial State:
  - Turn ATM "ON"
  - Enter 200 for bills amount
  - ATM is asking "Please insert your card"
- Steps:
  - Click to insert card
  - Enter Card # 1
- Expected Outcome: ATM asks for PIN
- Actual Outcome: ATM asked for PIN
- Bug Description: NA
- Severity of the Bug: NA
- SUT Version: 1.0

Case 2: Authentication & Card Handling - Insert invalid PIN.
- Initial State:
  - ATM is asking for Card # 1 PIN
- Steps:
  - Enter wrong PIN # 1234
  - Enter wrong PIN # 1478
  - Enter wrong PIN # 1234
- Expected Outcome: The ATM will retains the Card and displays information message
- Actual Outcome: The ATM retained the Card and displayed information message
- Bug Description: NA
- Severity of the Bug: NA
- SUT Version: 1.0

Case 3: Authentication & Card Handling - Insert Retained Card
- Initial State:
  - ATM retained Card # 1
  - ATM is asking "Please insert your card"
- Steps:
  - Click to insert card
  - Enter Card # 1
  - Enter PIN # 42

- Expected Outcome: The ATM shouldn't accept a duplicate card
- Actual Outcome: The ATM accepts a duplicate card
- Bug Description: ATM accepts duplicate cards after being retained by the ATM
- Severity of the Bug: Medium
- SUT Version: 1.0
- Regression Testing Results for V1.1 : Bug still exists

Case 4: Authentication & Card Handling - Insert invalid ATM card.
- Initial State:
    - ATM is asking "Please insert your card"
- Steps:
    - Click to insert card
    - Insert unavailable Card # 5
    - ATM asks "Please enter your PIN"
    - Enter any PIN # 55
- Expected Outcome: ATM ejects card and displays information message
- Actual Outcome: ATM ejected card and displayed information message "Failure invalid Card"
- Bug Description: NA
- Severity of the Bug: NA
- SUT Version: 1.0

Case 5: Cash Withdrawal - Withdraw Valid Option - Checking Account
- Initial State:
    - Card 1 is entered and machine asking "Please choose transaction type"
- Steps:
    - Select "1) Withdrawal"
    - Select "1) Checking"
    - Select "4) $100"
- Expected Outcome: Withdraws $100
- Actual Outcome: Error message "Insufficient available balance"
- Bug Description: ATM did not withdraw available $100 when balance was $100
- Severity of the Bug: High
- SUT Version: 1.0
- Regression Testing Results for V1.1 : Bug fixed

Case 6: Cash Withdrawal - Withdraw Valid Option - Savings Account
- Initial State:
    - Card 1 is entered and machine asking "Please choose transaction type"
- Steps:
    - Select "1) Withdrawal"
    - Select "2) Savnigs"
    - Select "2) $40"
- Expected Outcome: ATM Withdraws $40

- Actual Outcome: Machine withdraws $60
- Bug Description: ATM Withdrew $20 more than the expected amount - The ATM withdraws from the next option in the list instead of the selected option
- Severity of the Bug: High
- SUT Version: 1.0
- Regression Testing Results for V1.1 : Bug fixed

Case 7: Cash Withdrawal - Maximum limit set by the bank ($200)
- Initial State:
  - Card 1 is entered and machine asking "Please choose transaction type"
- Steps:
  - Select "1) Withdrawal"
  - Select "2) Savnigs"
  - Select "5) $200"
- Expected Outcome: ATM withdraws $200
- Actual Outcome: ATM Windrew $20
- Bug Description: ATM withdraws $20 instead of $200 when selecting the option- The ATM withdraws from the next option in the list instead of the selected option
- Severity of the Bug: High
- SUT Version: 1.0
- Regression Testing Results for V1.1 : Bug fixed

Case 8: Cash Withdrawal - Withdraw invalid Option
- Initial State:
  - Card 1 is entered and machine asking "Please choose transaction type"
- Steps:
  - Select "1) Withdrawal"
  - Select "2) Checking"
  - Select "6"
- Expected Outcome: Information Message to select valid option
- Actual Outcome: ATM Windraws $20
- Bug Description:
  - ATM dispenses $20 without any transaction being made when selecting invalid withdrawal options
  - ATM dispenses $20 when selecting any invalid option in any screen
- Severity of the Bug: Very High
- SUT Version: 1.0
- Regression Testing Results for V1.1 : Bug still exists

Case 9: Cash Withdrawal - Exceeding ATM Balance.
- Initial State:
  - Turn ATM "ON"
  - Enter 1 for bills amount
  - ATM is asking "Please insert your card"

- Steps:
  - Click to insert card
  - Enter Card # 1 and PIN # 42
  - Select "1) Withdrawal"
  - Select "2) Savings"
  - Select "5) $200" *ATM dispenses the only $20 bill
  - Select "1) Yes" to do another transactions
  - Select "1) Withdrawal"
  - Select "2) Savings"
  - Select "5) $200"
- Expected Outcome: ATM displays Information Message Insuficint cash available
- Actual Outcome: ATM displayed Information Message Insuficint cash available
- Bug Description: NA
- Severity of the Bug: NA
- SUT Version: 1.0

Case 10: Deposit Transactions - Valid Account Type
- Initial State:
  - Click to insert card
  - Enter Card # 2 and PIN # 1234
  - ATM is asking "Please choose transaction type"
- Steps:
  - Select "2) Deposit"
  - Select "1) Checking"
  - Enter "Amount to deposit" $40
  - Click to insert envelope
- Expected Outcome: New balance of $140
- Actual Outcome: New Balance of $130
- Bug Description: ATM deducts $10 from deposit amounts
- Severity of the Bug: Very High
- SUT Version: 1.0
- Regression Testing Results for V1.1 : Bug still exists, amount deposited deducted by $0.10 instead of $10

Case 11: Deposit Transactions - Invalid Account Type
- Initial State:
  - Click to insert card
  - Enter Card # 2 and PIN # 1234
  - ATM is asking "Please choose transaction type"
- Steps:
  - Select "2) Deposit"
  - Select "2) Saving"
  - Enter "Amount to deposit" $40
  - Click to insert envelope

- Expected Outcome: ATM displays Error message Invalid Account type before amount
- Actual Outcome: ATM displayed Error message Invalid Account type after amount
- Bug Description: ATM asks for amount even if account type is invalid
- Severity of the Bug: Medium
- SUT Version: 1.0
- Regression Testing Results for V1.1 : Bug still exist

Case 12: Fund Transfer - Transfer between valid accounts linked to the card.
- Initial State:
  - Click to insert card
  - Enter Card # 1 and PIN # 42
  - ATM is asking "Please choose transaction type"
- Steps:
  - Select "3) Transfer"
  - Select From "2) Saving"
  - Select To "1) Checking"
  - Enter "Amount to transfer" $100
- Expected Outcome: ATM Transfers $100 from Savings to Checking
- Actual Outcome: ATM Transfers $99.50 from Savings to Checking
- Bug Description:
  - Transfer amount is reduced by $0.5
  - Receipt reverses the order of the accounts "TRANSFER FROM: CHKG TO: SVGS"
- Severity of the Bug: High
- SUT Version: 1.0
- Regression Testing Results for V1.1 : Bug fixed: Transfer amount is not reduced by $0.5
  - Bug still exist: Receipt reverses the order of the accounts "TRANSFER FROM: CHKG TO: SVGS"

Case 13: Fund Transfer - Transfer To invalid accounts linked to the card.
- Initial State:
  - Click to insert card
  - Enter Card # 1 and PIN # 42
  - ATM is asking "Please choose transaction type"
- Steps:
  - Select "3) Transfer"
  - Select From "2) Saving"
  - Select To "3) Money Market"
  - Enter "Amount to transfer" $100
- Expected Outcome: ATM displays Error Message "Invalid to account type"
- Actual Outcome: ATM displayed Error Message "Invalid to account type"
- Bug Description: NA
- Severity of the Bug: NA
- SUT Version: 1.0

Case 14: Fund Transfer - Transfer To invalid accounts linked to the card.
Initial State:
- Click to insert card
    - Enter Card # 1 and PIN # 42
    - ATM is asking "Please choose transaction type"
- Steps:
    - Select "3) Transfer"
    - Select From "3) Money Market"
    - Select To "2) Saving"
    - Enter "Amount to transfer" $100
- Expected Outcome: ATM displays Error Message "Invalid from account type"
- Actual Outcome: ATM displayed Error Message "Invalid from account type"
- Bug Description: NA
- Severity of the Bug: NA
- SUT Version: 1.0

Case 15: Balance Inquiry - Check balance for linked accounts - Savings
- Initial State:
    - Click to insert card
    - Enter Card # 1 and PIN # 42
    - ATM is asking "Please choose transaction type"
- Steps:
    - Select "4) Balance Inquiry"
- Expected Outcome: ATM Display option for Savings account
- Actual Outcome: No Savings Account in Balance Inquiry list
- Bug Description: No Savings Account in Balance Inquiry list
- Severity of the Bug: High
- SUT Version: 1.0
- Regression Testing Results for V1.1 : Bug fixed, Savings account is now in the list

Case 16: Balance Inquiry - Check balance for linked accounts - Savings
- Initial State:
    - Click to insert card
    - Enter Card # 1 and PIN # 42
    - ATM is asking "Please choose transaction type"
- Steps:
    - Select "4) Balance Inquiry"
    - Select "2) Money Market"
- Expected Outcome: ATM Displays error message "Invalid account type"
- Actual Outcome:
    - ATM displays error message "Unknown Error"

- ○ ATM displays Savings account balance
- ○ ATM dispenses $500
- ● Bug Description:
  - ○ ATM displays error message "Unknown Error"
  - ○ ATM dispenses $500 when checking balance
- ● Severity of the Bug: Very High
- ● SUT Version: 1.0
- ● Regression Testing Results for V1.1 : Bug still exists
  - ○ ATM displays error message "Unknown Error"
  - ○ ATM dispenses $500 when checking balance

Case 17: Balance Inquiry - Check balance for linked accounts - Checking
- ● Initial State:
  - ○ Click to insert card
  - ○ Enter Card # 2 and PIN # 1234
  - ○ ATM is asking "Please choose transaction type"
- ● Steps:
  - ○ Select "4) Balance Inquiry"
  - ○ Select "1) Checking"
- ● Expected Outcome: ATM displays Checking account balance
- ● Actual Outcome: ATM displayed Checking account balance
- ● Bug Description: NA
- ● Severity of the Bug: NA
- ● SUT Version: 1.0

Case 18: Balance Inquiry - Check balance for linked accounts - Money Market
- ● Initial State:
  - ○ Click to insert card
  - ○ Enter Card # 2 and PIN # 1234
  - ○ ATM is asking "Please choose transaction type"
- ● Steps:
  - ○ Select "4) Balance Inquiry"
  - ○ Select "2) Money Market"
- ● Expected Outcome: ATM displays Money Market balance
- ● Actual Outcome: ATM displayed Error message "Invalid account type"
- ● Bug Description: Can't check Money Market Balance
- ● Severity of the Bug: High
- ● SUT Version: 1.0
- ● Regression Testing Results for V1.1 : Bug fixed, Money Market balance is displayed

Test Case #	V1.0 Manual Scripted Testing Actual Output	V1.1 (Regression Testing) Manual Scripted Testing
1	Pass	Pass
2	Pass	Pass
3	Pass	Pass
4	Pass	Pass
5	Pass	Pass
6	Pass	Pass
7	Pass	Pass
8	Pass	Pass
9	Pass	Pass
10	Pass	Pass
11	Pass	Pass
12	Pass	Pass
13	Pass	Pass
14	Bug: ATM dispenses an incorrect amount (e.g., user selects $20, but ATM gives $40). Incorrect balance deduction (e.g., balance reflect the wrong withdrawal amount). Transaction log contain incorrect values.	Pass
15	Pass	Pass
16	Pass	Pass
17	Pass	Pass
18	Pass	Pass
19	Pass	Pass
20	Pass	Pass
21	Pass	Pass
22	Bug: System deducts 10$ from deposit amount	Bug: Amount Deposited has $0.10 deducted
23	Pass	Pass
24	Pass	Pass
25	Pass	Pass
26	Pass	Pass
27	Pass	Pass
28	Pass	Pass
29	Bug: Reciept reverses the order of accounts in the transfer "TRANSFER FROM: SVGS TO: CHKG" / Bug: System deducts 0.5$ from the transfer amount	Bug: Receipt Reverses the order of accounts "TRANSFER FROM: SVGS TO: CHKG"
30	Pass	Pass
31	Pass	Pass
32	Pass	Pass
33	Pass	Pass
34	Pass	Pass
35	Pass	Pass
36	Pass	Pass
37	Bug: The system does not go to transactions menu	Bug: The system does not go to transactions menu
38	Pass	Pass
39	Bug: The system does not go to transactions menu	Bug: The system does not go to transactions menu
40	Pass	Pass