

Assignment 1 (SENG637-4)

 [SENG637-35] ATM shows withdrawal option even when cash is not available

Created: 06/Feb/24 Updated: 06/Feb/24

Status:	To Do		
Project:	SENG 637 ATM		
Components:	None		
Affects versions:	None		
Fix versions:	None		
Parent:	Assignment 1		

Type:	Bug	Priority:	Low
Reporter:	Sayan Nath	Assignee:	Unassigned
Resolution:	Unresolved	Votes:	0
Labels:	Withdrawal		
Remaining Estimate:	Not Specified		
Time Spent:	Not Specified		
Original estimate:	Not Specified		

Attachments:	 Screenshot 2024-02-05 at 5.27.05 PM.png  Screenshot 2024-02-05 at 5.29.25 PM.png		
Rank:	0ji0007z:		
SUT Version:	1.0, 1.1		
Function being Tested:	Withdrawal		
Test Type:	Exploratory Test		

Description

When the ATM does not have enough cash, it shows higher amount of withdrawal options.

Function under test: Withdrawal

Initial state of the system: The system prompts the amount of withdrawals.

Steps to reproduce:

1. Start the ATM system

2. For entering the number of bills, enter 1 which is about \$20.

3. Enter the card number for eg. 1 and its respective PIN

4. Select withdrawal from the transaction option.

5. Select Checking account.

Version 1.0

Expected Outcome

Ideally, the system should not show options of withdrawal if that amount of cash is not available.

Actual Outcome

System shows options of withdrawal as attached to the screenshot 1.

Version 1.1

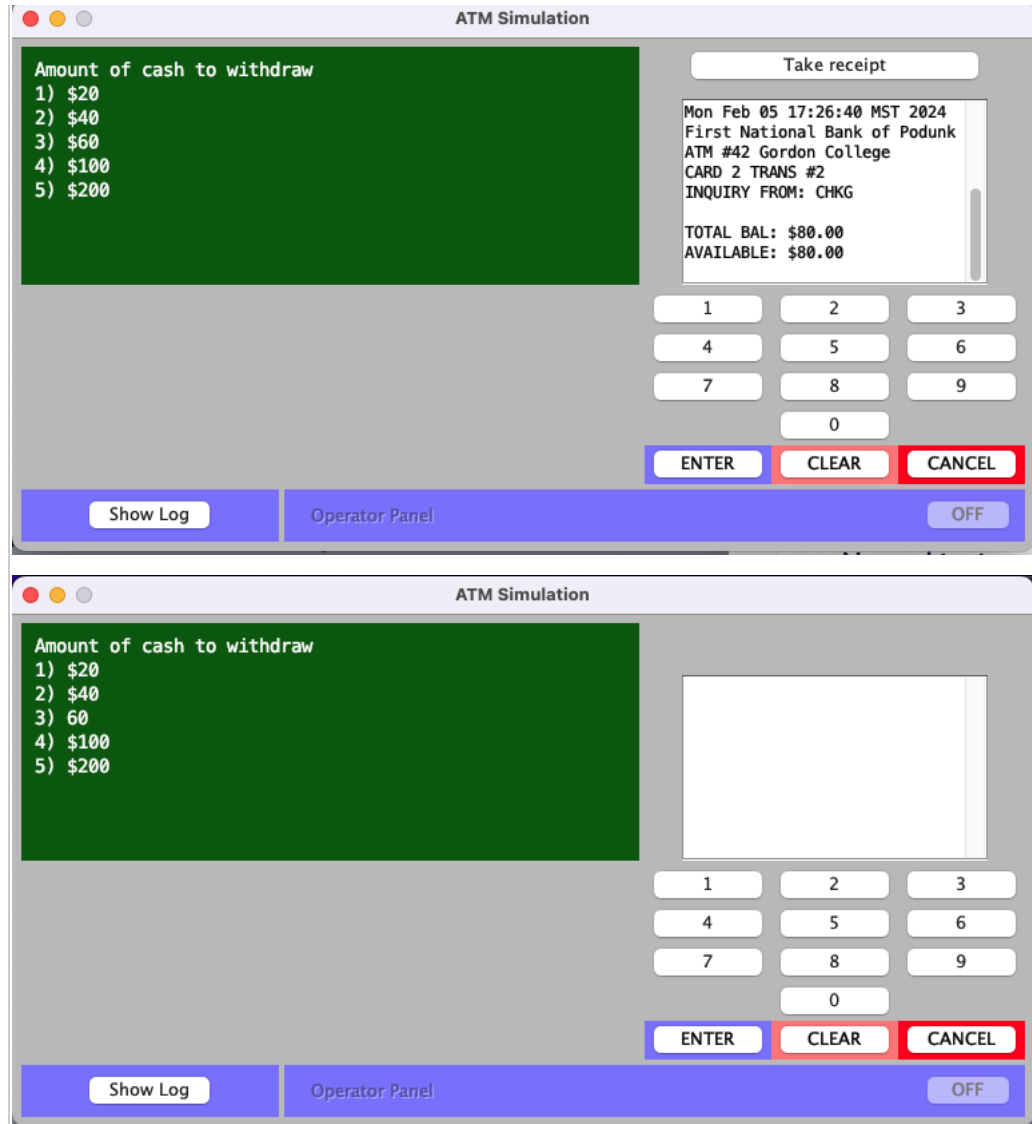
Expected Outcome

Ideally, the system should not show options of withdrawal if that amount of cash is not available.

Actual Outcome

System shows options of withdrawal as attached to the screenshot. 2

Screenshot



Assignment 1 <small>(SENG637-4)</small>			
[SENG637-34] ATM System withdraws incorrect amount occasionally <small>Created: 06/Feb/24 Updated: 06/Feb/24</small>			
Status:	In Progress		
Project:	SENG 637 ATM		
Components:	None		
Affects versions:	None		
Fix versions:	None		
Parent:	Assignment 1		
Type:	Bug	Priority:	High
Reporter:	Sayan Nath	Assignee:	Unassigned
Resolution:	Unresolved	Votes:	0
Labels:	Withdrawal		
Remaining Estimate:	Not Specified		
Time Spent:	Not Specified		
Original estimate:	Not Specified		

Attachments:	Screenshot 2024-02-05 at 5.02.19 PM.png
Rank:	0ji0007r:
SUT Version:	1.0
Function being Tested:	Withdrawal
Test Type:	Scripted Test

Description

When the ATM has low balance, selecting \$200 to withdraw leads to an withdrawal of \$20 incorrectly.

Function under test: Withdrawal

Initial state of the system: The system prompts the amount of withdrawals.

Steps to reproduce:

1. Start the ATM system

2. For entering the number of bills, enter 1.

3. Enter the card number for eg. 1 and its respective PIN

4. Select withdrawal from the transaction option.

5. Select \$200 option.

Version 1.0

Expected Outcome

System should prompt “Insufficient Bank Balance”.

Actual Outcome

System dispense 20\$ bill.

FIXED in Version 1.1

Screenshot

ATM Simulation

Wood you like to do another transaction?
1) Yes
2) No

Take receipt

Mon Feb 05 16:55:24 MST 2024
First National Bank of Podunk
ATM #42 Gordon College
CARD 2 TRANS #1
WITHDRAWAL FROM: CHKG
AMOUNT: \$20.00
TOTAL BAL: \$80.00
AVAILABLE: \$80.00

1234567890

ENTERCLEARCANCEL

Show Log


Operator Panel

OFF

Assignment 1 (SENG637-4)	
[SENG637-33] Withdrawal from Card 1 also draws money from Card 2 Created: 05/Feb/24 Updated: 06/Feb/24	
Status:	In Progress
Project:	SENG 637 ATM
Components:	None
Affects versions:	None
Fix versions:	None
Parent:	Assignment 1

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Type:	Bug	Priority:	Highest
Reporter:	Afif Al Mamun	Assignee:	Unassigned
Resolution:	Unresolved	Votes:	0
Labels:	Withdrawal		
Remaining Estimate:	Not Specified		
Time Spent:	Not Specified		
Original estimate:	Not Specified		

Attachments:	 image-20240205-232055.png
Rank:	0 j00023:
SUT Version:	1.0, 1.1
Function being Tested:	Withdrawal

Description

When a withdrawal happens in Card 1, the same amount of money is deducted from Card 2.

Function being tested: Withdrawal

Initial state of the system: System is ON

Steps to reproduce:

1. Turn the system ON

2. Insert a valid dollar bill

3. Click on “Click to insert card”

4. Insert the first card (Card number: 1, PIN: 42)

5. From the menu choose “Withdrawal”

6. Select “Checking” account

7. Provide a valid amount to withdraw and notice the receipt

8. Now log out from the system using the “Cancel” button

9. Repeat steps 1 - 4 for card 2 (Card number: 2, PIN: 1234)

10. Select “Balance Inquiry” from the menu

11. Choose “Checking” account

Version 1.0

Expected Outcome

The initial balance of \$100.00 should be available.

Actual Outcome

The transaction amount of card 2 has been deducted from card 2.

Version 1.1

Expected Outcome

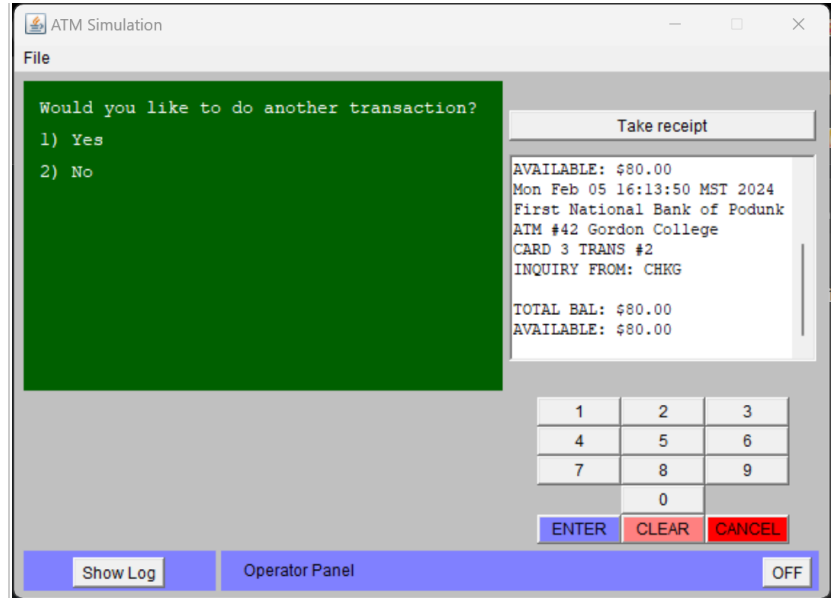
The initial balance of \$100.00 should be available.

Actual Outcome

The transaction amount of card 2 has been deducted from card 2.

Screenshot

This is the output of Card 2 for a transaction of \$20 from Card 1



Assignment 1 (SENG637-4)			
[SENG637-32] Receipt does not get cleared after ejecting card Created: 05/Feb/24 Updated: 06/Feb/24			
Status:	In Progress		
Project:	SENG 637 ATM		
Components:	None		
Affects versions:	None		
Fix versions:	None		
Parent:	Assignment 1		
Type:	Bug	Priority:	High
Reporter:	Afif Al Mamun	Assignee:	Unassigned
Resolution:	Unresolved	Votes:	0
Labels:	Session		
Remaining Estimate:	Not Specified		
Time Spent:	Not Specified		
Original estimate:	Not Specified		
Attachments:	image-20240205-230514.png		
Rank:	0 j00073:		
SUT Version:	1.0, 1.1		
Function being Tested:	Session		
Test Type:	Exploratory Test		

Description
The ATM system does not clear the receipt after a customer finishes their transaction which is a critical security issue.
Steps to reproduce:
1. Turn the system ON
2. Insert a valid dollar bill
3. Click on "Click to insert card"
4. Insert valid card details (Card number: 1, PIN: 42)
5. Select Balance Inquiry from the menu
6. Select Checking account
7. Once the balance is shown, click on the "Cancel" button to eject the card

Version 1.0

Expected Outcome

The receipt screen should be cleared.

Actual Outcome

The receipt from the previous log is still shown to the new user.

Version 1.1

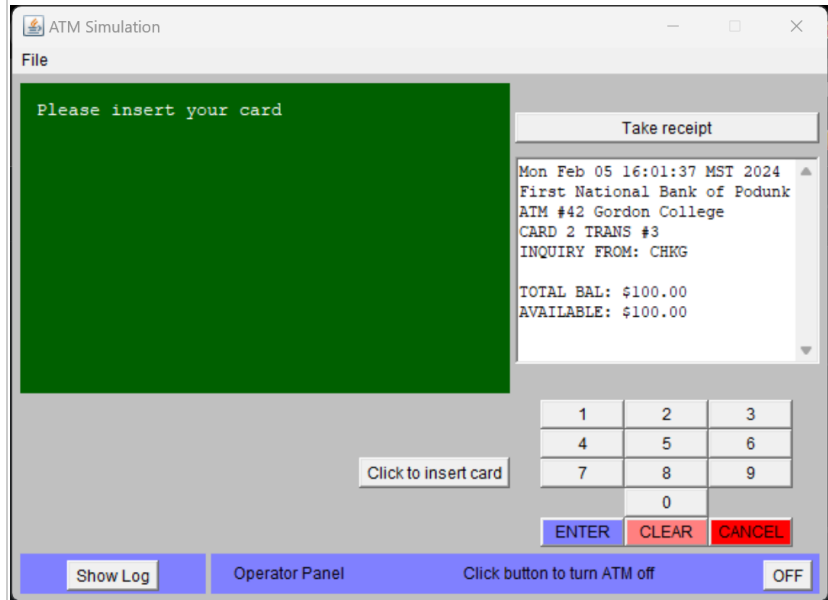
Expected Outcome

The receipt screen should be cleared.

Actual Outcome

The receipt from the previous log is still shown to the new user.

Screenshot



Assignment 1 (SENG637-4)

[SENG637-31] Incorrect log on deposit cancellation Created: 05/Feb/24 Updated: 06/Feb/24

Status:	To Do
Project:	SENG 637 ATM
Components:	None
Affects versions:	None
Fix versions:	None
Parent:	Assignment 1

Type:	Bug	Priority:	Medium
Reporter:	Aff Al Mamun	Assignee:	Unassigned
Resolution:	Unresolved	Votes:	0
Labels:	Deposit		
Remaining Estimate:	Not Specified		
Time Spent:	Not Specified		
Original estimate:	Not Specified		

Attachments:	image-20240205-225306.png
Rank:	0 i0006v:

SUT Version:	1.0, 1.1
Function being Tested:	Deposit
Test Type:	Exploratory Test

Description

When a deposit is canceled or the envelope is not inserted the system log incorrectly shows "SUCCESS".

Function being tested: System Log

Initial state of the system: System asks to insert the envelope during the deposit transaction.

Steps to reproduce:

- 1. Turn the system ON
- 2. Insert a valid dollar bill
- 3. Click on "Click to insert card"
- 4. Insert valid card details (Card number: 1, PIN: 42)
- 5. From the menu choose "Deposit"
- 6. Select Checking account
- 7. Insert a valid amount
- 8. Click on "ENTER" button
- 9. Wait for "Click to insert envelope" button to popup
- 10. Click on "CANCEL" button

Version 1.0

Expected Outcome

The transaction should be cancelled and proper logs should be written.

Actual Outcome

System Log
Message: INIT_DEP CARD# 1 TRANS# 1 NO FROM TO 0 \$10.00
Response: SUCCESS

Version 1.1

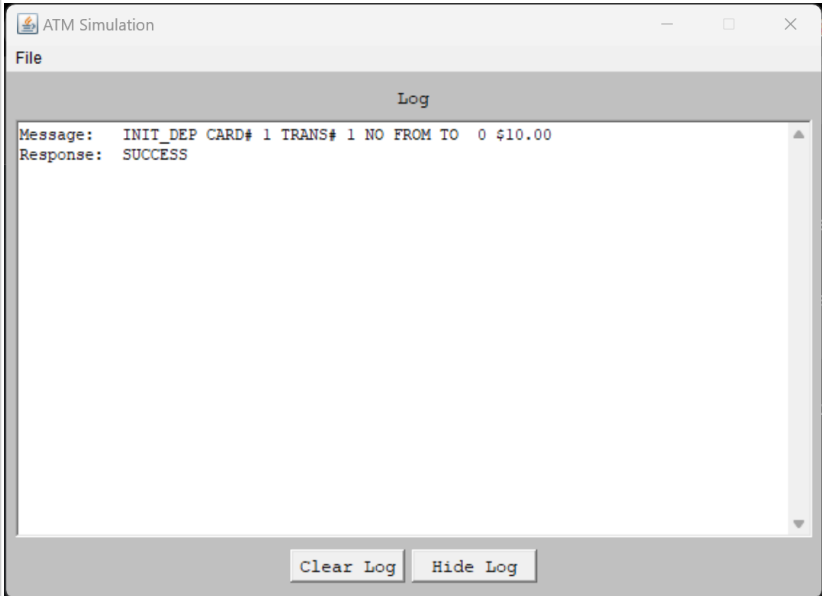
Expected Outcome

The transaction should be cancelled and proper logs should be written.

Actual Outcome

System Log
Message: INIT_DEP CARD# 1 TRANS# 1 NO FROM TO 0 \$10.00
Response: SUCCESS

Screenshot



Assignment 1 (SENG637-4)

[SENG637-30] Available balance never gets updated after deposit

Created: 05/Feb/24 Updated: 06/Feb/24

Status:

In Progress

Project:

SENG 637 ATM

Components:

None

Affects versions:

None

Fix versions:

None

Parent:

Assignment 1

Type:

Bug

Priority:

Highest

Reporter:

Afif Al Mamun

Assignee:

Unassigned

Resolution:

Unresolved

Votes:

0

Labels:

BalanceInquiry, Deposit

Remaining Estimate:

Not Specified

Time Spent:

Not Specified

Original estimate:

Not Specified

Attachments:

image-20240205-222432.png

Rank:

0|j0006n:

SUT Version:

1.0, 1.1

Function being Tested:

Balance Inquiry

Test Type:

Exploratory Test

Description

The ATM system never updates the available balance after a successful deposit. The system should add the deposited amount to available balance. For example, for card 1, the initial balance is \$100.00 and a deposit of \$10.00 should make it to \$110.00 but it does not.

Function being tested: Balance Inquiry

Initial state of the system: The system is ON and successfully logged in.

Steps to reproduce:

1. Turn the system ON
2. Insert a valid dollar bill
3. Click on "Click to insert card"
4. Insert valid card details (Card number: 1, PIN: 42)
5. Select Balance Inquiry from the menu
6. Make sure the available balance is \$100
7. Go back to the main menu
8. Choose 2) Deposit
9. Choose 1) Checking from the account menu
10. Insert an amount of \$10
11. Click on "Click to insert envelope" button
12. Check the available balance

Version 1.0

Expected Outcome

AVAILABLE: \$110.00

Actual Outcome

AVAILABLE: \$100.00

Version 1.1

Expected Outcome

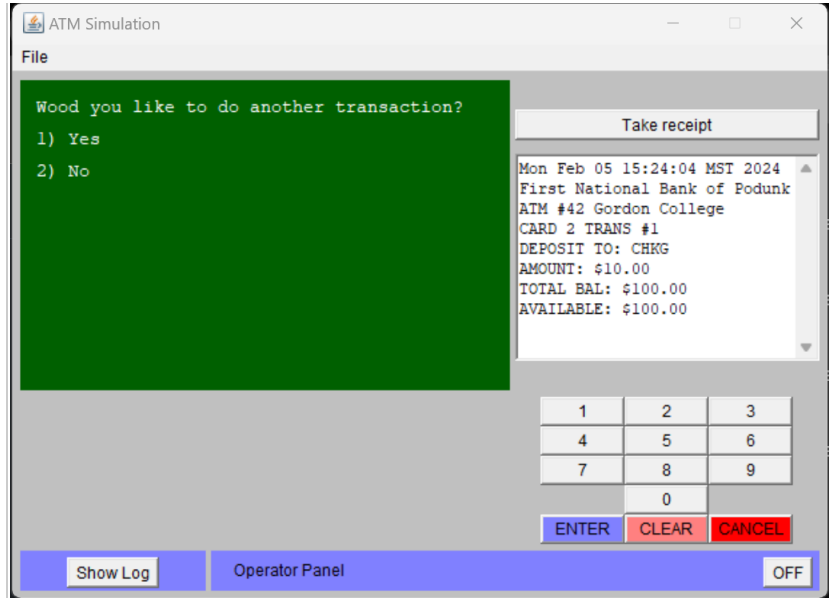
AVAILABLE: \$110.00

Actual Outcome

AVAILABLE: \$100.00

Screenshot

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Assignment 1 (SENG637-4)			
[SENG637-28] ATM System always displays "Checking to Savings" when transferring money from Savings to Checking Account			
Account Created: 05/Feb/24 Updated: 06/Feb/24			
Status:	In Progress		
Project:	SENG 637 ATM		
Components:	None		
Affects versions:	None		
Fix versions:	None		
Parent:	Assignment 1		
Type:	Bug	Priority:	Highest
Reporter:	ABHI CHOWDHURY	Assignee:	Unassigned
Resolution:	Unresolved	Votes:	0
Labels:	Transfer		
Remaining Estimate:	Not Specified		
Time Spent:	Not Specified		
Original estimate:	Not Specified		
Attachments:	SVGS TO CHKG 1.0.PNG SVGS to CHKG 1.1.PNG		
Rank:	0 i00067:		
SUT Version:	1.0, 1.1		
Function being Tested:	Transfer		
Test Type:	Exploratory Test		

Description	
ATM System always displays “Checking to Savings” on both versions when doing transfer from Savings to Checking Account.	
Function being tested: Transfer	
Initial state of the system: User does Transfer from Savings to Checking.	
Steps to reproduce:	
1. Turn on ATM and insert valid number of bills.	
2. Insert Card 1 and enter pin 42.	
3. Select Transfer.	

2/5/24, 6:41 PM

Jira

4. Select From Savings to Checking.

5. Provide any amount.

6. The system will always display CHKG to SVGS.

Version 1.0

Expected Outcome:

The ATM System should display “SVGS to CHKG”.

Actual Outcome:

The ATM System always display “CHKG to SVGS”.

Version 1.1

Expected Outcome

The ATM System should display “SVGS to CHKG”.

Actual Outcome

The ATM System always display “CHKG to SVGS”.

Screenshot

Assignment 1 (SENG637-4)

[SENG637-26] Missing \$ sign in ATM System Version 1.1 in \$60 Withdrawal

Created: 05/Feb/24 Updated: 06/Feb/24

Status:

To Do

Project:

SENG 637 ATM

Components:

None

Affects versions:

None

Fix versions:

None

Parent:

Assignment 1

Type:

Bug

Priority:

Low

Reporter:

ABHI CHOWDHURY

Assignee:

Unassigned

Resolution:

Unresolved

Votes:

0

Labels:

Session, Withdrawal

Remaining Estimate:

Not Specified

Time Spent:

Not Specified

Original estimate:

Not Specified

Attachments:

\$ Sign Missing on 1.1.PNG

Rank:

0|ji0005z:

SUT Version:

1.1

Function being Tested:

Withdrawal

Test Type:

Exploratory Test

Description

The ATM System Version 1.1 is missing the \$ sign for \$60 when the User selects Withdrawal \$60.

Function being tested: Withdrawal

Initial state of the system: Withdrawal is selected from the menu.

Steps to reproduce:

1. Turn on ATM Version 1.1 and insert valid number of bills.

2. Insert Card 1 and enter pin 42.

3. Select Withdrawal.



4. Select Checking.

5. Check \$60.

Version 1.0

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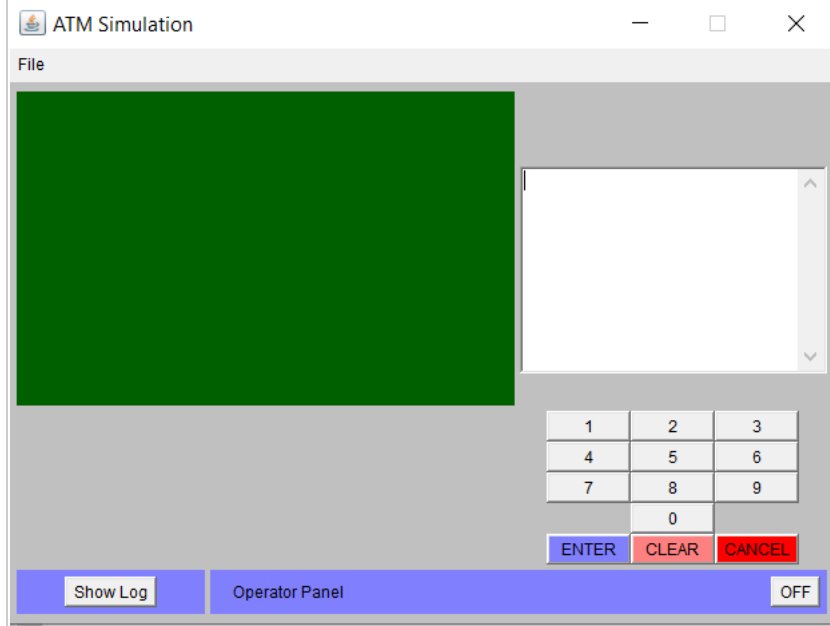
2/5/24, 6:41 PM	Jira
Expected Outcome:	
All the given amount options of Withdrawal has \$ signs before the amount value.	
Actual Outcome:	
All the given amount options of Withdrawal has \$ signs before the amount value. No issues.	
Version 1.1	
Expected Outcome	
All the given amount options of Withdrawal has \$ signs before the amount value.	
Actual Outcome	
The amount 60 doesn't have a dollar sign before the amount value.	
Missing \$ sign of Withdrawal in V1.1	
Screenshot	

Assignment 1 <small>(SENG637-4)</small>			
 [SENG637-23] ArrayIndexOutOfBoundsException on arbitrary card number input Created: 05/Feb/24 Updated: 06/Feb/24			
Status:	In Progress		
Project:	SENG 637 ATM		
Components:	None		
Affects versions:	None		
Fix versions:	None		
Parent:	Assignment 1		
Type:	Bug	Priority:	Highest
Reporter:	Afif Al Mamun	Assignee:	Afif Al Mamun
Resolution:	Unresolved	Votes:	0
Labels:	Session		
Remaining Estimate:	Not Specified		
Time Spent:	Not Specified		
Original estimate:	Not Specified		
Attachments:	 image-20240205-041543.png		
Rank:	0 j0005r:		
SUT Version:	1.0, 1.1		
Function being Tested:	Session		
Test Type:	Exploratory Test		

Description
When an arbitrary number “3” is inserted as the card number the system freezes and throwsArrayIndexOutOfBoundsException exception.
Function being tested: Session
Initial state of the system: System is asking to insert the card number.
Steps to reproduce: <div><div>1. Turn the system ON</div><div>2. Provide a valid number of 20 dollar bills</div><div>3. Insert Card 3.</div><div>4. Enter a random PIN.</div></div>
Expected outcome: Should display a proper authentication error message.
Actual outcome: The system freezes and throws exception in the console output.
Stack Trace

```
Exception in thread "Thread-2" java.lang.ArrayIndexOutOfBoundsException: 3
    at simulation.SimulatedBank.checkPIN(SimulatedBank.java:346)
    at atm.Session.performSession(Session.java:66)
    at atm.ATM.run(ATM.java:124)
    at java.lang.Thread.run(Unknown Source)
```

Screenshot



Assignment 1 (SENG637-4)

[SENG637-22] Can't deposit money in Money Market account Created: 05/Feb/24 Updated: 06/Feb/24

Status:	In Progress
Project:	SENG 637 ATM
Components:	None
Affects versions:	None
Fix versions:	None
Parent:	Assignment 1

Type:	Bug	Priority:	Highest
Reporter:	ABHI CHOWDHURY	Assignee:	Unassigned
Resolution:	Unresolved	Votes:	0
Labels:	Deposit		
Remaining Estimate:	Not Specified		
Time Spent:	Not Specified		
Original estimate:	Not Specified		

Attachments:	Invalid 1.0.PNG Invalid 1.1.PNG
Rank:	0 i0005j:
SUT Version:	1.0, 1.1
Function being Tested:	Deposit
Test Type:	Exploratory Test

Description

ATM displays Invalid account type on both versions when deposit money in Money Market.

Function being tested: Deposit

2/5/24, 6:41 PM

Jira

Initial state of the system: User does Deposit and selects any random amount.

Steps to reproduce:

1. Turn on ATM and insert valid number of bills.

2. Insert Card 1 and enter pin 42.

3. Select Deposit.

4. Select Money Market.

5. Select Amount.

Version 1.0

Expected Outcome:

The ATM should display the amount after deposit in Money Market.

Actual Outcome:

The ATM displays Invalid account type.

Version 1.1

Expected Outcome


The ATM should display the amount after deposit in Money Market.

Actual Outcome

The ATM displays Invalid account type.

Screenshot



Assignment 1 (SENG637-4)

 [SENG637-21] Typo "Wood" in repeat transaction prompt

Created: 05/Feb/24 Updated: 06/Feb/24 Resolved: 06/Feb/24

Status:	Done		
Project:	SENG 637 ATM		
Components:	None		
Affects versions:	None		
Fix versions:	None		
Parent:	Assignment 1		

Type:	Bug	Priority:	Low
Reporter:	Afif Al Mamun	Assignee:	Unassigned
Resolution:	Done	Votes:	0
Labels:	Session, Transaction		
Remaining Estimate:	Not Specified		
Time Spent:	Not Specified		
Original estimate:	Not Specified		

Attachments:	 Would.PNG  image-20240205-002706.png		
Rank:	0ji0005b:		
SUT Version:	1.0		
Function being Tested:	Session		
Test Type:	Exploratory Test		

Description

The system has a typo when asking for a new transaction.

Function being tested: Transaction

Initial state of the system: A transaction has just been completed or canceled and the system is prompting for another one.

Steps to reproduce:

1. Turn the system ON

2. Enter default card number and password (1 and 42 respectively)

3. Select any option from the available menu
4. Click on **Cancel** button

Version 1.0

Expected Outcome

Would you like to do another transaction?

Actual Outcome

Wood you like to do another transaction?

Version 1.1

Expected Outcome

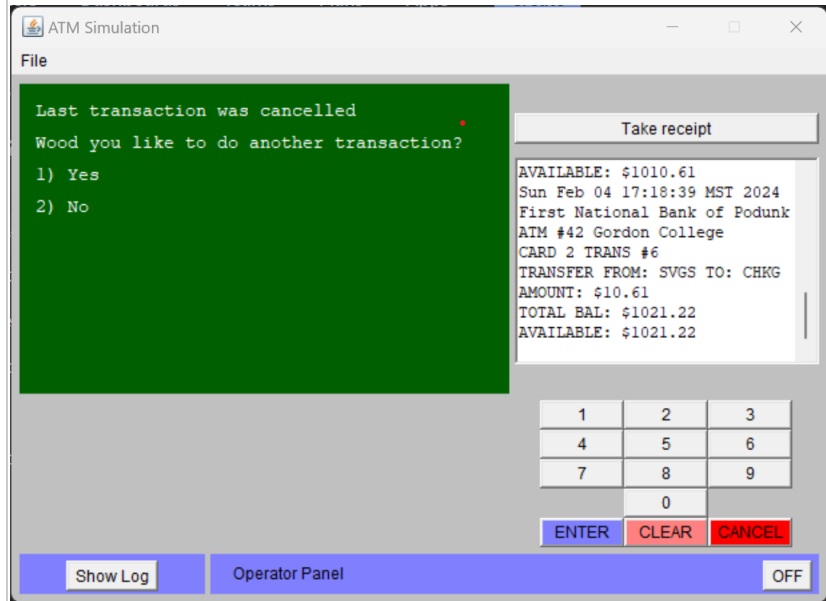
The ATM should display “Would you like to do another transaction?”

Actual Outcome

The ATM displays correctly “Would you like to do another transaction?”

FIXED in V1.1

Screenshot



Assignment 1 (SENG637-4)

[SENG637-19] Wrong Amount Displayed After Withdrawal

Created: 05/Feb/24 Updated: 06/Feb/24 Resolved: 06/Feb/24

Status:	Done		
Project:	SENG 637 ATM		
Components:	None		
Affects versions:	None		
Fix versions:	None		
Parent:	Assignment 1		
Type:	Bug	Priority:	High
Reporter:	ABHI CHOWDHURY	Assignee:	Unassigned
Resolution:	Done	Votes:	0
Labels:	Withdrawal		
Remaining Estimate:	Not Specified		
Time Spent:	Not Specified		
Original estimate:	Not Specified		

Attachments:	Fixed 1.1.PNG Incorrect Withdrawal 1.0.PNG
Rank:	0ji00053:
SUT Version:	1.0
Function being Tested:	Withdrawal
Test Type:	Exploratory Test

Description

ATM displays incorrect amount after every withdrawal. Function being tested: Withdrawal Initial state of the system: User withdraws from the Checking account and selects \$40. Steps to reproduce: <div>1. Turn on the ATM and insert a valid number of bills. 2. Insert Card 2 and enter pin 1234. 3. Select Withdrawal. 4. Select Checking. 5. Insert \$40. 6. Click "ENTER"</div> Version 1.0 Expected Outcome: The ATM should display the actual amount after withdrawal. Actual Outcome: The user selects to Withdraw \$40 but the ATM displays \$60. Version 1.1 Expected Outcome The ATM should display the actual amount after withdrawal. Actual Outcome The user selects to withdraw \$40 and the ATM displays \$40. FIXED in V1.1 Screenshot

Assignment 1 <small>(SENG637-4)</small>			
[SENG637-18] Savings account is missing in the Balance Inquiry menu Created: 05/Feb/24 Updated: 06/Feb/24 Resolved: 06/Feb/24			
Status:	Done		
Project:	SENG 637 ATM		
Components:	None		
Affects versions:	None		
Fix versions:	None		
Parent:	Assignment 1		
Type:	Bug	Priority:	Highest
Reporter:	Afif Al Mamun	Assignee:	Unassigned
Resolution:	Done	Votes:	0
Labels:	BalanceInquiry		
Remaining Estimate:	Not Specified		
Time Spent:	Not Specified		
Original estimate:	Not Specified		
Attachments:	image-20240205-000849.png		

Rank:	0ji0002h:
SUT Version:	1.0
Function being Tested:	Balance Inquiry
Test Type:	Scripted Test

Description

Savings Account is missing on the Balance Inquiry menu.

Function being tested: Balance Inquiry

Initial state of the system: A valid card is inserted and the system shows showing main menu for transactions.

Steps to reproduce:

- 1. Turn on the system and log in with the default card and password.
- 2. Choose option 4) **Balance Inquiry**

Version 1.0

Expected Outcome

Different account types including

- 1. Checking
- 2. Savings
- 3. Money Market

Actual Outcome

- 1. Checking
- 2. Money Market

Version 1.1

Expected Outcome

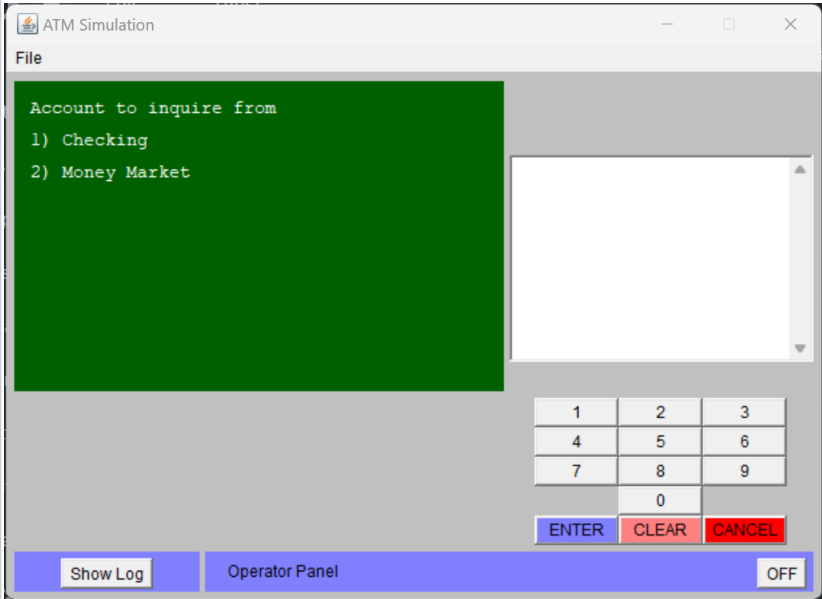
- 1. Checking
- 2. Savings
- 3. Money Market

Actual Outcome

- 1. Checking
- 2. Savings
- 3. Money Market

FIXED in V1.1

Screenshot





Assignment 1 (SENG637-4)

 [SENG637-17] Balance Inquiry does not work for Money Market Created: 04/Feb/24 Updated: 06/Feb/24

Status:	In Progress
Project:	SENG 637 ATM
Components:	None
Affects versions:	None
Fix versions:	None
Parent:	Assignment 1

Type:	Bug	Priority:	High
Reporter:	Afif Al Mamun	Assignee:	Unassigned
Resolution:	Unresolved	Votes:	0
Labels:	BalanceInquiry		
Remaining Estimate:	Not Specified		
Time Spent:	Not Specified		
Original estimate:	Not Specified		

Attachments:	 image-20240204-235920.png  image-20240205-000011.png
Rank:	0 i0004n:
SUT Version:	1.0, 1.1
Function being Tested:	Balance Inquiry
Test Type:	Exploratory Test

Description

The system goes into error when trying to inquire balance of the Money Market.

Function being tested: Balance Inquiry

Initial state of the system: A valid card is inserted and the system shows showing main menu for transactions.

Steps to reproduce:

1. Turn on the system and log in with the default card and password.
2. Choose option **4) Balance Inquiry**
3. Select option **Money Market**

Version 1.0

Expected Outcome
<p>1. The project will be completed within the budget and timeline.</p> <p>2. The project will result in a significant increase in the company's revenue.</p> <p>3. The project will improve the company's operational efficiency.</p> <p>4. The project will enhance the company's reputation and brand image.</p> <p>5. The project will create new jobs and opportunities for the community.</p>

Available balance of the money market.

Actual Outcome

Unknown error with a receipt of savings account.

Version 1.1

Expected Outcome
<p>1. The patient will be able to identify the signs and symptoms of a heart attack.</p> <p>2. The patient will be able to describe the risk factors for a heart attack.</p> <p>3. The patient will be able to explain the importance of a healthy diet and exercise.</p> <p>4. The patient will be able to identify the signs and symptoms of high blood pressure.</p> <p>5. The patient will be able to describe the risk factors for high blood pressure.</p> <p>6. The patient will be able to explain the importance of taking medications as prescribed.</p> <p>7. The patient will be able to identify the signs and symptoms of diabetes.</p> <p>8. The patient will be able to describe the risk factors for diabetes.</p> <p>9. The patient will be able to explain the importance of regular blood sugar monitoring.</p> <p>10. The patient will be able to identify the signs and symptoms of a stroke.</p> <p>11. The patient will be able to describe the risk factors for a stroke.</p> <p>12. The patient will be able to explain the importance of a healthy diet and exercise.</p>

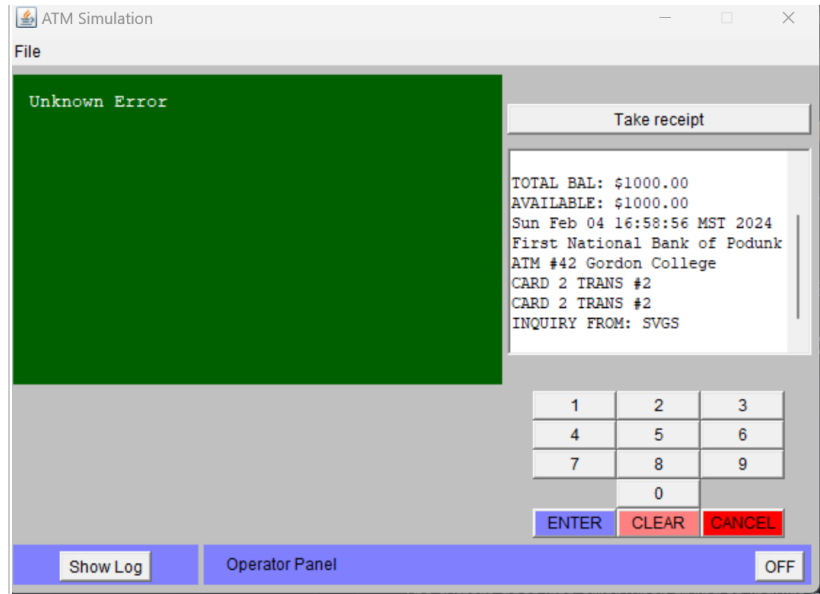
Available balance of the money market.

Actual Outcome

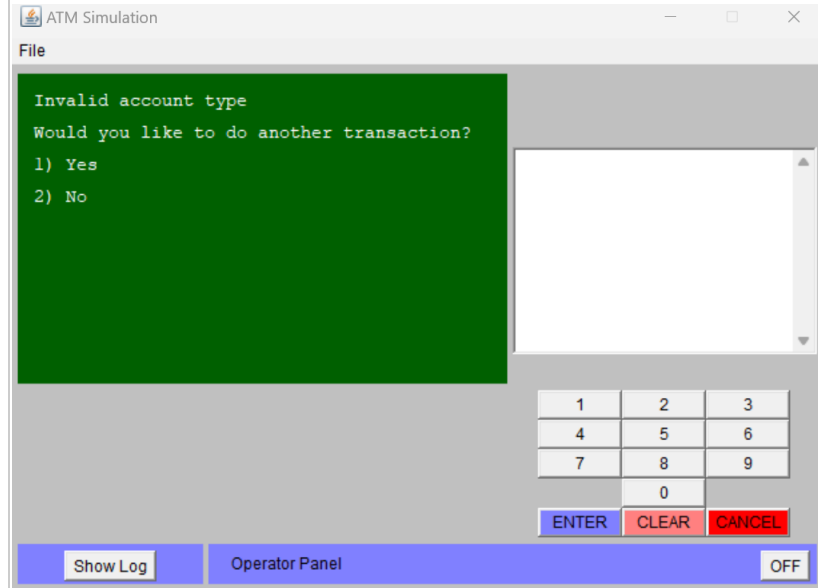
Invalid account type.

Screenshot

V1.0 outcome



V1.1 outcome



Assignment 1 (SENG637-4)			
[SENG637-16] ATM freezes when a card is blocked Created: 04/Feb/24 Updated: 06/Feb/24			
Status:	To Do		
Project:	SENG 637 ATM		
Components:	None		
Affects versions:	None		
Fix versions:	None		
Parent:	Assignment 1		
Type:	Bug	Priority:	Medium
Reporter:	Afif Al Mamun	Assignee:	Unassigned
Resolution:	Unresolved	Votes:	0
Labels:	Session		
Remaining Estimate:	Not Specified		

Time Spent:	Not Specified
Original estimate:	Not Specified

Attachments:	Screenshot 2024-02-05 at 4.23.27 PM.png
Rank:	0 j0007b:
SUT Version:	1.0, 1.1
Function being Tested:	Session
Test Type:	Exploratory Test

Description

When a card is blocked after three incorrect PIN attempts, the “Click to insert card” button although clickable, does not work till the display prompt message changes.

Function under test: Session

Initial state of the system: The system has retained card after 3 incorrect PIN attempts.

Steps to reproduce:

1. Start the ATM system
2. Provide valid bills
3. Insert default card 1 with a wrong PIN 3 times
4. When the system is showing “Your card has been retained” message, click on the “Click to insert card” again.

Version 1.0

Expected Outcome

System should prompt for a new card number.

Actual Outcome

System freezes and doesn’t work till the display message changes

Version 1.1

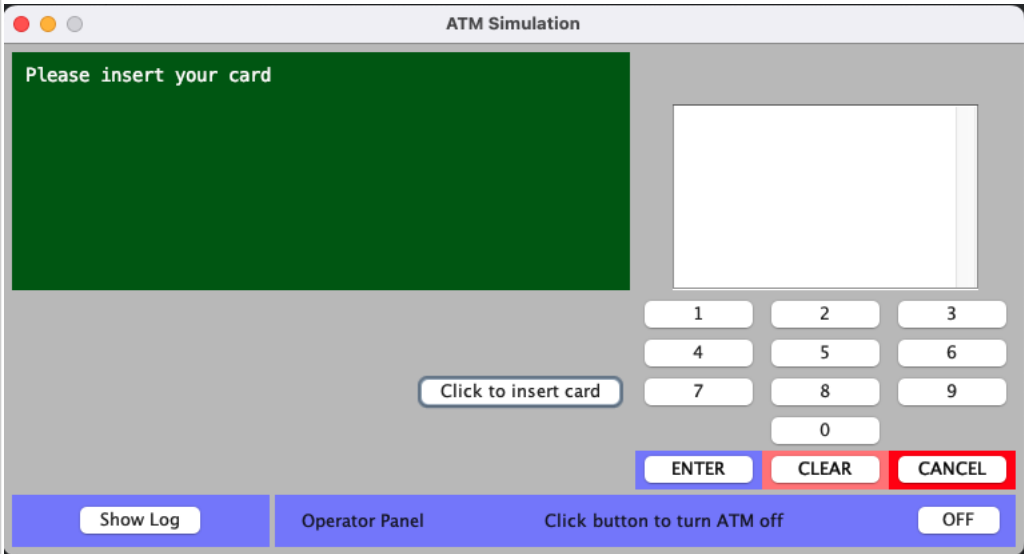
Expected Outcome

System should prompt for a new card number.

Actual Outcome

System freezes and doesn’t work till the display message changes

Screenshot



Assignment 1 (SENG637-4)

[SENG637-14] ATM does not accept large number of bills in the cash dispenser Created: 04/Feb/24 Updated: 06/Feb/24

Status:	To Do
Project:	SENG 637 ATM
Components:	None
Affects versions:	None
Fix versions:	None
Parent:	Assignment 1

Type:	Bug	Priority:	Medium
Reporter:	Sayan Nath	Assignee:	Unassigned
Resolution:	Unresolved	Votes:	0
Labels:	Session		
Remaining Estimate:	Not Specified		
Time Spent:	Not Specified		
Original estimate:	Not Specified		

Attachments:	
Rank:	0 i00047:
SUT Version:	1.0, 1.1
Function being Tested:	Session
Test Type:	Exploratory Test

Description

Initiating the ATM requires setting the count of \$20 bills in its cash dispenser. However, inputting any integer value above 2147483647, which equals $2^{31} - 1$, is rejected.

Function Under Test: Session

System's Starting State: Powered OFF

Reproduction Method:

1. Press the ON button to activate the ATM.

2. Input an integer larger than 2147483647, such as 2147483648.

3. The ATM then displays the message - "Must be a valid integer >= 0," despite the entered number being a valid integer and greater than 0, indicating it should be accepted.

Version 1.0

Expected Outcome

The ATM should recognize and accept the figure 2147483648 as a valid count of \$20 bills in the dispenser.

Actual Outcome

The ATM declines the input of 2147483648, presenting a prompt that reads "Must be a valid integer >= 0."

Version 1.1

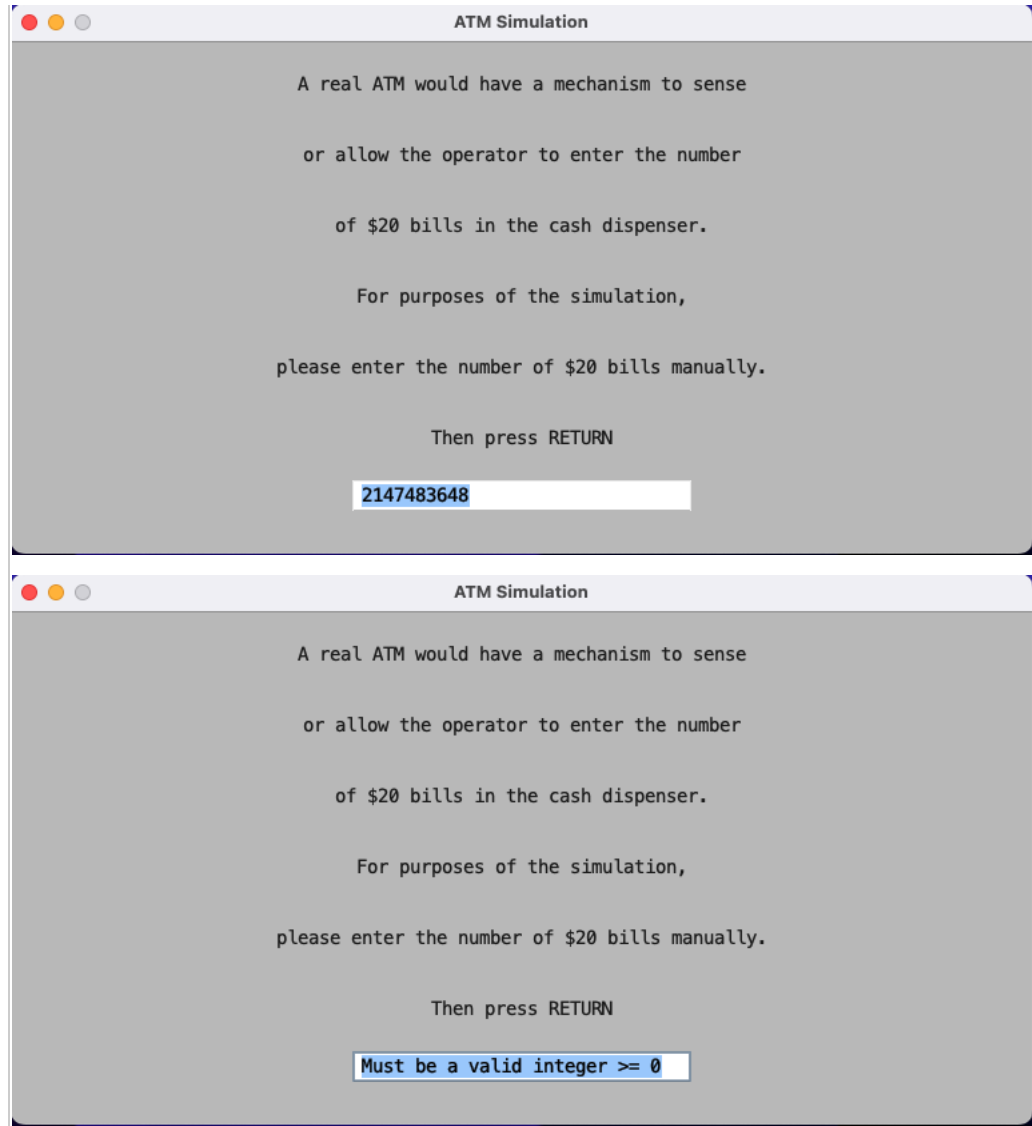
Expected Outcome

The ATM should recognize and accept the figure 2147483648 as a valid count of \$20 bills in the dispenser.


Actual Outcome

The ATM declines the input of 2147483648, presenting a prompt that reads "Must be a valid integer >= 0."

Screenshot



Assignment 1 (SENG637-4)

 [SENG637-13] ATM system does not accept a big deposit amount

Created: 04/Feb/24 Updated: 06/Feb/24

Status:	In Progress
Project:	SENG 637 ATM
Components:	None
Affects versions:	None
Fix versions:	None
Parent:	Assignment 1

Type:	Bug	Priority:	High
Reporter:	Sayan Nath	Assignee:	Unassigned
Resolution:	Unresolved	Votes:	0
Labels:	Deposit		
Remaining Estimate:	Not Specified		
Time Spent:	Not Specified		
Original estimate:	Not Specified		

Attachments:	
Rank:	0ji0003z:
SUT Version:	1.0
Function being Tested:	Deposit
Test Type:	Scripted Test

Description

Attempting to deposit amounts over 21474836.47 causes the ATM screen to freeze and triggers a `java.lang.NumberFormatException` error in the command line console though this amount doesn't exceed the 32-bit integer limit.

Function Under Test: Deposit

System's Initial Condition: The ATM prompts for a deposit amount.

- Steps to Replicate:**
1. Insert card 2 and input PIN 1234.
 2. Select Deposit and choose the checking account.
 3. Enter 21474836.48 as the deposit amount and press Enter.
 4. Observe that the ATM does not prompt to insert the envelope; its screen turns blank and becomes unresponsive to any input, with no logs recorded.
 5. Check the console used to launch the jar file, where you'll find the `java.lang.NumberFormatException` error.

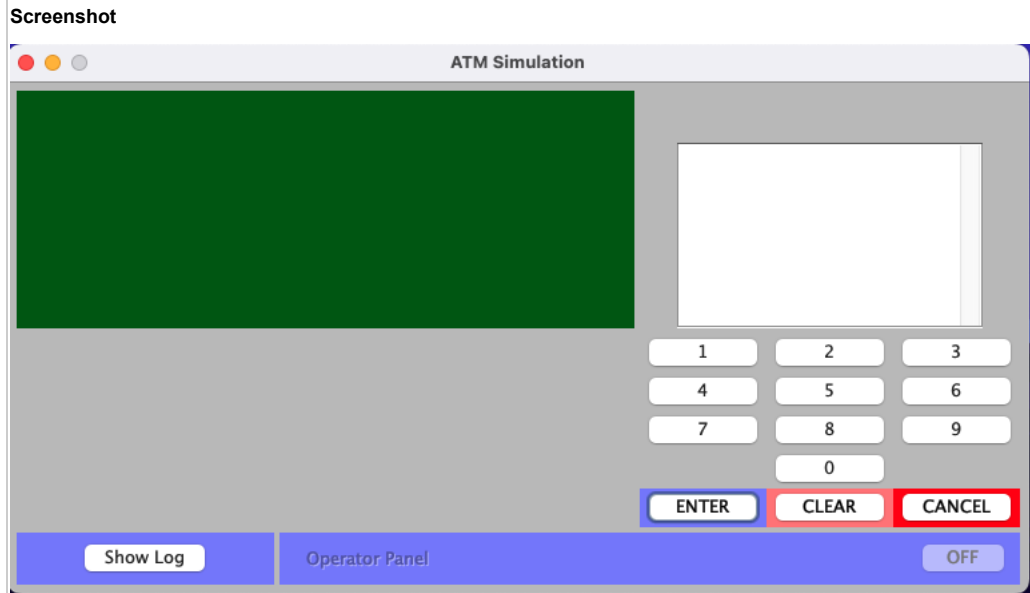
Version 1.0

Expected Outcome

The ATM should prompt to insert the envelope and proceed with the deposit transaction.

Actual Outcome

The ATM fails to prompt for the envelope insertion, with its screen turning blank and unresponsive.



2/5/24, 6:41 PMJira

Exception in thread "Thread-1" java.lang.NumberFormatException: For input string: "2147483648"
at java.base/java.lang.NumberFormatException.forInputString(NumberFormatException.java:65)
at java.base/java.lang.Integer.parseInt(Integer.java:665)
at java.base/java.lang.Integer.parseInt(Integer.java:777)
at atm.physical.CustomerConsole.readAmount(CustomerConsole.java:110)
at atm.transaction.Deposit.getSpecificsFromCustomer(Deposit.java:46)
at atm.transaction.Transaction.performTransaction(Transaction.java:108)
at atm.Session.performSession(Session.java:131)
at atm.ATM.run(ATM.java:124)
at java.base/java.lang.Thread.run(Thread.java:1583)

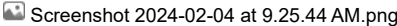
Assignment 1 (SENG637-4)

 [SENG637-11] No limit on length of the PIN

Created: 04/Feb/24 Updated: 06/Feb/24

Status:	To Do		
Project:	SENG 637 ATM		
Components:	None		
Affects versions:	None		
Fix versions:	None		
Parent:	Assignment 1		

Type:	Bug	Priority:	Medium
Reporter:	Sayan Nath	Assignee:	Unassigned
Resolution:	Unresolved	Votes:	0
Labels:	Session		
Remaining Estimate:	Not Specified		
Time Spent:	Not Specified		
Original estimate:	Not Specified		

Attachments:	 		
Rank:	0 i0003j:		
SUT Version:	1.0, 1.1		
Function being Tested:	Session		
Test Type:	Exploratory Test		

Description

There's no restriction on the length of the PIN; entering an excessively long number results in the graphical user interface freezing, and a `java.lang.NumberFormatException` error appears in the command line.

Function Under Test: Session

System Initial Condition: The system is powered ON.

Steps to reproduce:

1. Turn on ATM, and insert valid number of bills.
2. Insert a Card, and enter a long value for PIN.

Version 1.0

Expected Outcome:

The ATM should show "Invalid Card/PIN".

Actual Outcome:

The ATM System freezes and `java.lang.NumberFormatException` is thrown on the command line.

Version 1.1

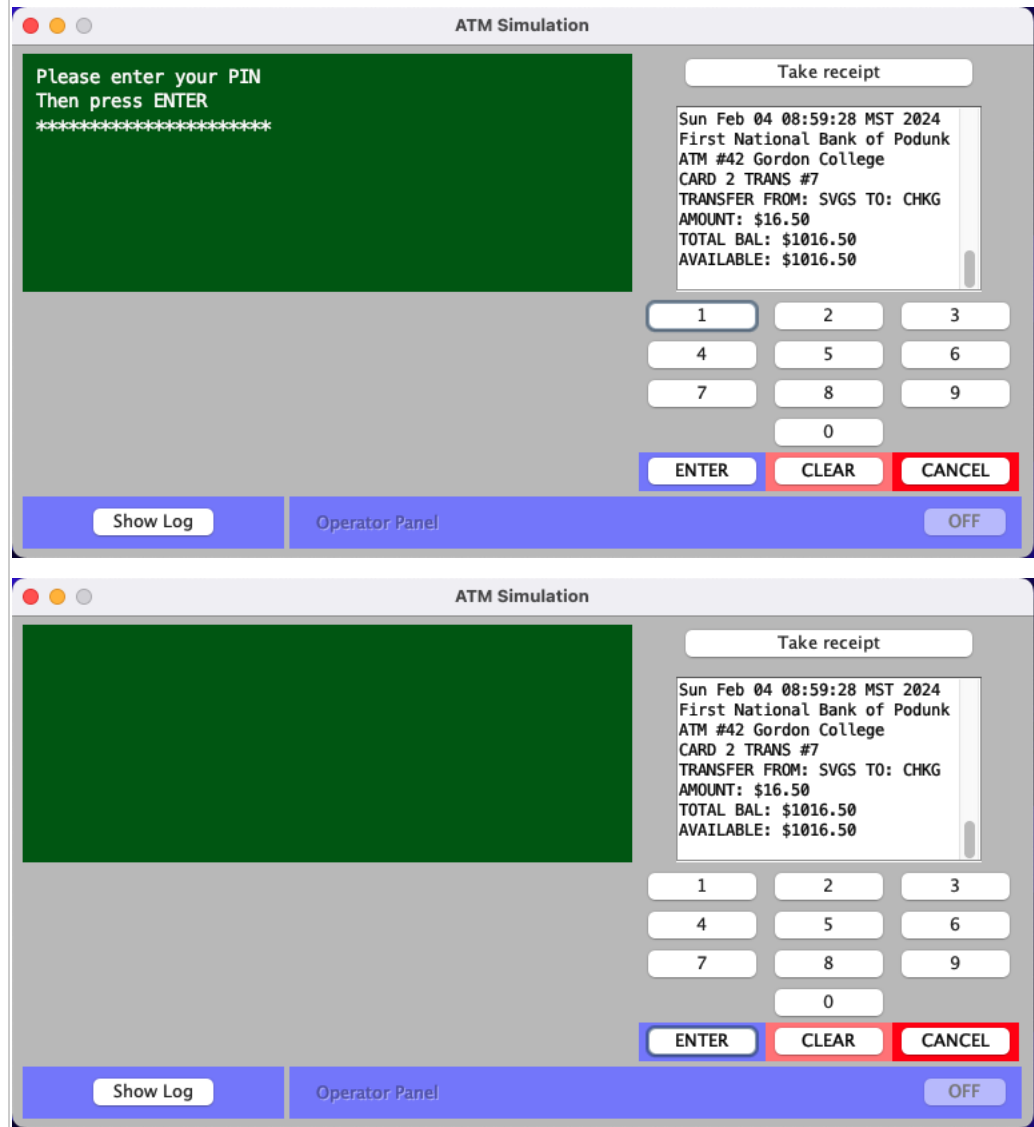
Expected Outcome:

The ATM should show "Invalid Card/PIN".


Actual Outcome:

The ATM System freezes and `java.lang.NumberFormatException` is thrown on the command line.

Screenshot



Assignment 1 (SENG637-4)

 [SENG637-10] Correct PIN has to be entered twice

Created: 04/Feb/24 Updated: 06/Feb/24

Status:	In Progress
Project:	SENG 637 ATM
Components:	None
Affects versions:	None

2/5/24, 6:41 PM

Jira

Fix versions:	None		
Parent:	Assignment 1		
Type:	Bug	Priority:	High
Reporter:	Sayan Nath	Assignee:	Unassigned
Resolution:	Unresolved	Votes:	0
Labels:	Session		
Remaining Estimate:	Not Specified		
Time Spent:	Not Specified		
Original estimate:	Not Specified		
Attachments:	Screenshot 2024-02-04 at 9.06.02 AM.png Screenshot 2024-02-04 at 9.06.18 AM.png Screenshot 2024-02-04 at 9.06.28 AM.png		
Rank:	0ji0003b:		
SUT Version:	1.0, 1.1		
Function being Tested:	Session		
Test Type:	Scripted Test		

Description

Whenever an incorrect PIN is input, the ATM requires two subsequent correct PIN entries before granting access to the card.

Function Under Test: Session

System Initial Condition: The system is powered ON.

Steps to reproduce:

1. Power up the ATM and load it with an adequate quantity of bills.

2. Insert a card and input a wrong PIN.

3. The ATM displays a message stating "PIN was incorrect, Please re-enter your PIN".

4. Input the correct PIN.

5. The ATM then asks for the PIN to be entered once more.

Version 1.0

Expected Outcome:

The ATM should allow access after the correct PIN is entered once.

Actual Outcome:

The ATM demands the correct PIN to be entered again before it allows access to the card.

Version 1.1

Expected Outcome:

The ATM should allow access after the correct PIN is entered once.

Actual Outcome:

The ATM demands the correct PIN to be entered again before it allows access to the card.

Screenshot

ATM Simulation

PIN was incorrect
Please re-enter your PIN
Then press ENTER

Take receipt

Sun Feb 04 08:59:28 MST 2024
First National Bank of Podunk
ATM #42 Gordon College
CARD 2 TRANS #7
TRANSFER FROM: SVGS TO: CHKG
AMOUNT: \$16.50
TOTAL BAL: \$1016.50
AVAILABLE: \$1016.50

1 2 3
4 5 6
7 8 9
0

ENTER CLEAR CANCEL

Show Log Operator Panel OFF

ATM Simulation

Please enter your PIN
Then press ENTER

Take receipt

Sun Feb 04 08:59:28 MST 2024
First National Bank of Podunk
ATM #42 Gordon College
CARD 2 TRANS #7
TRANSFER FROM: SVGS TO: CHKG
AMOUNT: \$16.50
TOTAL BAL: \$1016.50
AVAILABLE: \$1016.50

1 2 3
4 5 6
7 8 9
0

ENTER CLEAR CANCEL

Show Log Operator Panel OFF

ATM Simulation

Please choose transaction type
1) Withdrawal
2) Deposit
3) Transfer
4) Balance Inquiry



Take receipt

Sun Feb 04 08:59:28 MST 2024
First National Bank of Podunk
ATM #42 Gordon College
CARD 2 TRANS #7
TRANSFER FROM: SVGS TO: CHKG
AMOUNT: \$16.50
TOTAL BAL: \$1016.50
AVAILABLE: \$1016.50

1 2 3
4 5 6
7 8 9
0

ENTER CLEAR CANCEL

Show Log Operator Panel OFF

 [SENG637-9] Card Number on receipt is incorrect Created: 04/Feb/24 Updated: 06/Feb/24			
Status:	In Progress		
Project:	SENG 637 ATM		
Components:	None		
Affects versions:	None		
Fix versions:	None		
Parent:	Assignment 1		
Type:	Bug	Priority:	Highest
Reporter:	Sayan Nath	Assignee:	Unassigned
Resolution:	Unresolved	Votes:	0
Labels:	Session, Transaction		
Remaining Estimate:	Not Specified		
Time Spent:	Not Specified		
Original estimate:	Not Specified		
Attachments:	 Screenshot 2024-02-04 at 9.00.14 AM.png		
Rank:	0 i0007j:		
SUT Version:	1.0, 1.1		
Function being Tested:	Transaction		
Test Type:	Exploratory Test		

Description

Upon completion of a transaction, when a receipt is printed, the card number displayed on the receipt is incremented by one from the actual card number used. (For instance, card #1 is displayed as card #2).

Function being tested: Any Transaction

Initial state of the system: System on any transaction screen.

Steps to reproduce:

1. Turn the power on the ATM and load it with a valid number of bills.

2. Insert card #1 and use PIN 42, or card #2 with PIN 1234.

3. Select any type of transaction.

4. Proceed with any valid selection for the chosen transaction.

Version 1.0

Expected Outcome:

The receipt should accurately display the card number that was used for the transaction, i.e., #1 for card #1, and #2 for card #2.

Actual Outcome:

The receipt prints the card number as one higher than the actual card used, displaying #2 for card #1, and #3 for card #2. However, the ATM log correctly records the card number. The discrepancy only appears on the receipt.

Version 1.1

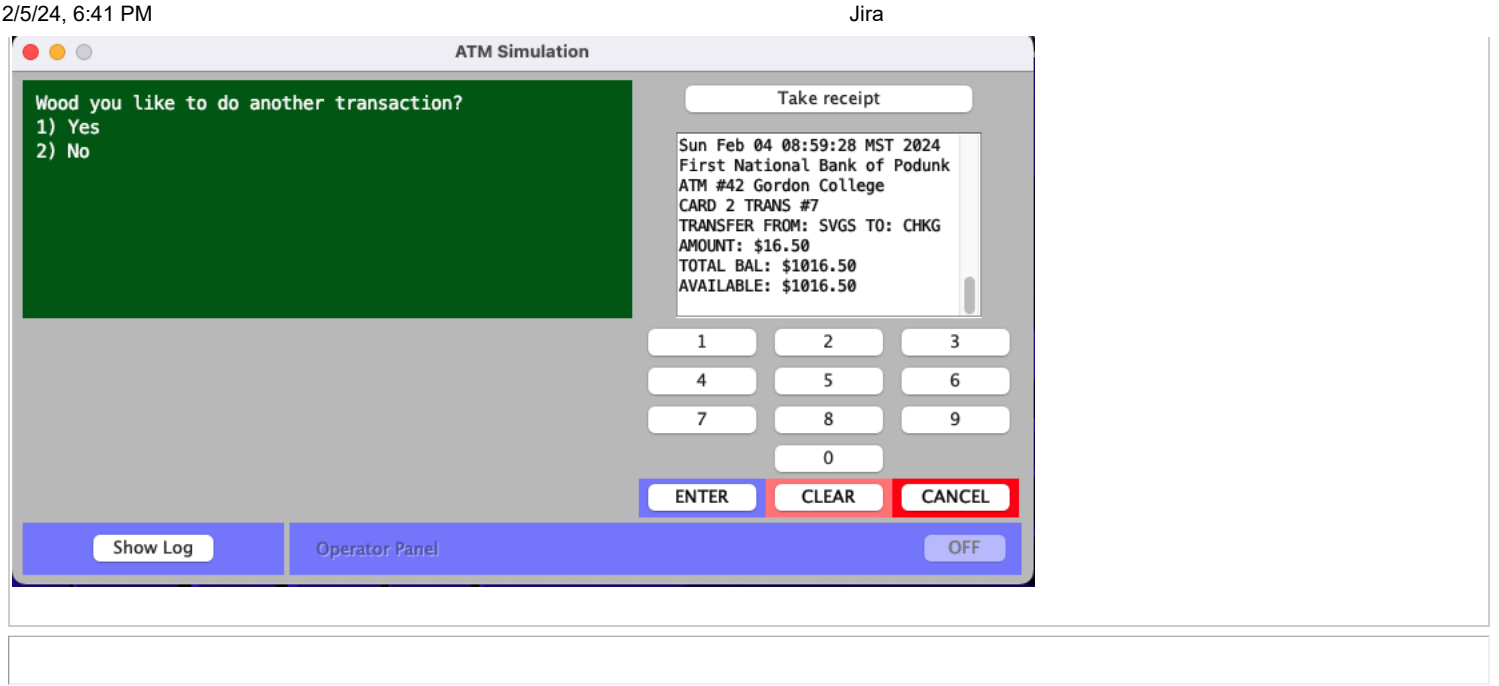
Expected Outcome:

The receipt should accurately display the card number that was used for the transaction, i.e., #1 for card #1, and #2 for card #2.

Actual Outcome:

The receipt prints the card number as one higher than the actual card used, displaying #2 for card #1, and #3 for card #2. However, the ATM log correctly records the card number. The discrepancy only appears on the receipt.

Screenshot



Assignment 1 (SENG637-4)			
[SENG637-8] Deposit amount entered is incorrect Created: 04/Feb/24 Updated: 06/Feb/24			
Status:	In Progress		
Project:	SENG 637 ATM		
Components:	None		
Affects versions:	None		
Fix versions:	None		
Parent:	Assignment 1		
Type:	Bug	Priority:	Highest
Reporter:	Sayan Nath	Assignee:	Unassigned
Resolution:	Unresolved	Votes:	0
Labels:	Deposit		
Remaining Estimate:	Not Specified		
Time Spent:	Not Specified		
Original estimate:	Not Specified		
Attachments:	Screenshot 2024-02-04 at 8.38.37 AM.png Screenshot 2024-02-05 at 4.06.42 PM.png		
Rank:	0 j0002v:		
SUT Version:	1.0, 1.1		
Function being Tested:	Deposit		
Test Type:	Scripted Test		

Description
When a user try to deposit money into account but it is shown than the money deposited is less
Function being tested: Deposit
Initial state of the system: System requested for the customer to type a dollar amount.
Steps to reproduce: <div><div>1. Turn on ATM, and insert valid number of bills.</div><div>2. Insert a valid Card, and enter PIN.</div><div>3. After depositing the amount such as 100\$, do another transaction.</div><div>4. Choose Checking account for "Balance Enquiry".</div><div>5. Insert the envelope.</div></div>
Version 1.0

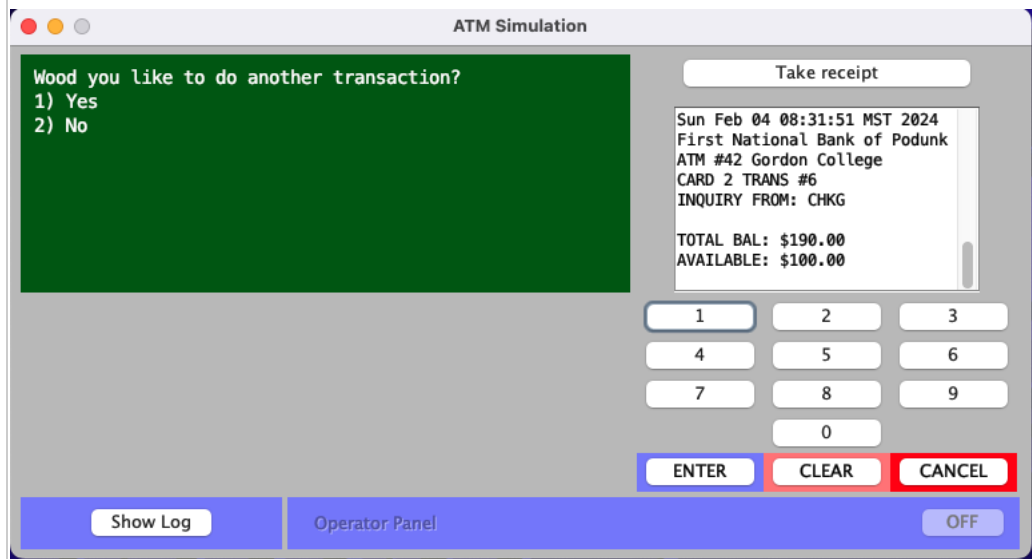
Expected Outcome:

The amount deposited such as 100\$ should add up with the initial balance. A new balance should also be displayed as 200\$ (100\$ + 100\$)

Actual Outcome:

The amount deposited is 100\$ but the amount which is shown is 190\$ which is (100\$ + 90\$) where 10\$ is less than the actual amount.

Screenshot



Version 1.1

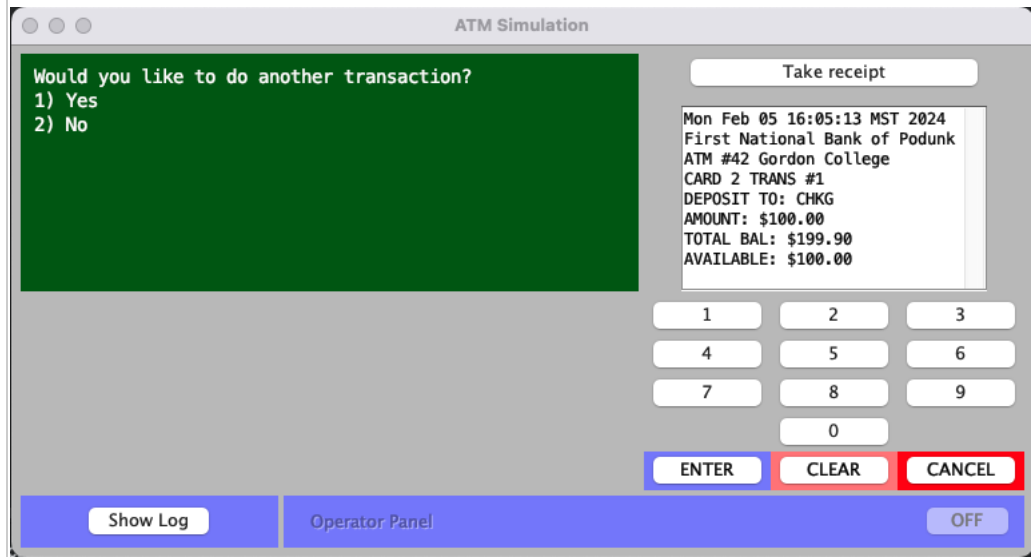
Expected Outcome:

The amount deposited such as 100\$ should add up with the initial balance. A new balance should also be displayed as 200\$ (100\$ + 100\$)

Actual Outcome:

The amount deposited is 100\$ but the amount which is shown is 199.9\$ which is (100\$ + 99.9\$) where 0.10\$ is less than the actual amount.

Screenshot



Assignment 1 (SENG637-4)

 [SENG637-7] No Log shown after connection

Created: 04/Feb/24 Updated: 06/Feb/24


Status:	To Do
Project:	SENG 637 ATM

2/5/24, 6:41 PM

Jira

Components:	None		
Affects versions:	None		
Fix versions:	None		
Parent:	Assignment 1		

Type:	Bug	Priority:	Medium
Reporter:	Sayan Nath	Assignee:	Unassigned
Resolution:	Unresolved	Votes:	0
Labels:	Session		
Remaining Estimate:	Not Specified		
Time Spent:	Not Specified		
Original estimate:	Not Specified		

Attachments:	 Screenshot 2024-02-04 at 7.24.23 AM.png
Rank:	0 i0002n:
SUT Version:	1.0
Function being Tested:	System Startup
Test Type:	Scripted Test

Description

When a valid card is inserted and a correct PIN is entered and the connection is set, no log is displayed for showing the connection is actually established or not.

Function being tested: System Startup

Initial state of the system: System has just turned **ON**.

Steps to reproduce:

1. Turn on ATM, and insert valid number of bills.

2. Insert a valid Card, and enter PIN.

3. After the ATM has accepted the card, Click on "Show Log".

Version 1.0

Expected Outcome:

System Log should display that a connection has been displayed.

Actual Outcome:

The Log displays a clear screen.

Version 1.1

Expected Outcome:

System Log should display that a connection has been displayed.

Actual Outcome:

The Log displays a clear screen.

Screenshot

ATM Simulation

Log

Clear Log

Hide Log

Assignment 1 (SENG637-4)

 [SENG637-6] ATM dispenses 20\$ bill on invalid menu input

Created: 04/Feb/24 Updated: 06/Feb/24 Resolved: 06/Feb/24

Status:	Done		
Project:	SENG 637 ATM		
Components:	None		
Affects versions:	None		
Fix versions:	None		
Parent:	Assignment 1		

Type:	Bug	Priority:	Highest
Reporter:	Sayan Nath	Assignee:	Unassigned
Resolution:	Done	Votes:	0
Labels:	Session		
Remaining Estimate:	Not Specified		
Time Spent:	Not Specified		
Original estimate:	Not Specified		

Attachments:	 Screenshot 2024-02-04 at 7.19.53 AM.png
Rank:	0 i0002f:
SUT Version:	1.0
Function being Tested:	Session
Test Type:	Exploratory Test

Description

During operation selection, if we enter a number which is higher than the highest number available, the ATM automatically dispenses 20\$ which is displayed in the output log, although the main balance is not effected.

Function being tested: Session

Initial state of the system: When you entered the valid PIN, the system prompts the choices of the operation.

Steps to reproduce:

1. Turn ON ATM and enter a valid number of bills.

2. Insert a valid card, and enter correct PIN.

3. When prompted with a numbered selection of operations to perform, Enter any number higher that the last selection ("4. Balance Inquiry"), let's say "6".

OR

1. Perform an Inquiry transaction.

2. When prompted "Would you like to do another transaction?", Enter any number other than 1 or 2.

Version 1.0

Expected Outcome:

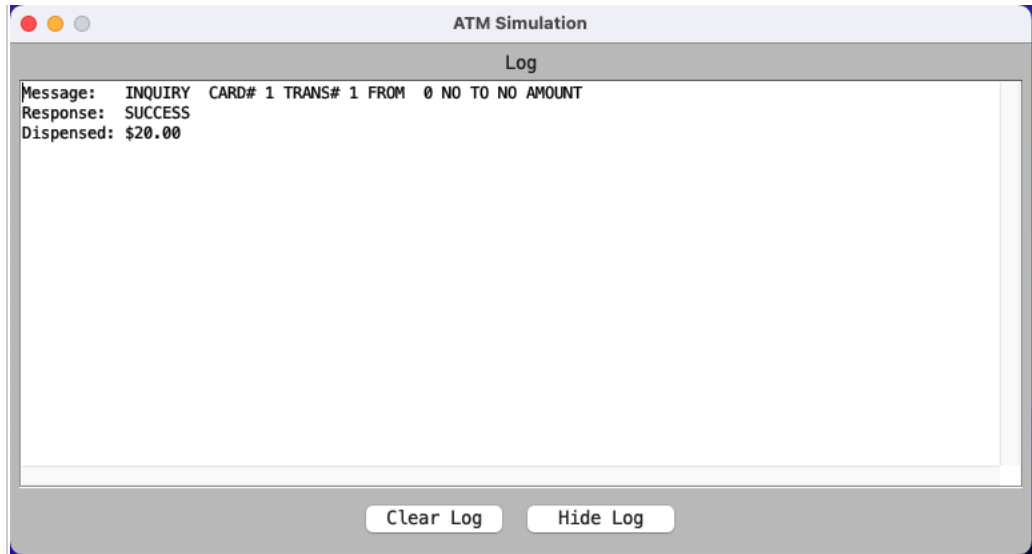
System should display saying "Invalid Selection"

Actual Outcome:

When the selection is made, the ATM dispenses 20\$ which is displayed in the log but the account balance is not deducted.

Fixed in Version 1.1

Screenshot



Assignment 1 <small>(SENG637-4)</small>			
[SENG637-5] PIN is required even when a wrong card is entered <small>Created: 04/Feb/24 Updated: 06/Feb/24</small>			
Status:	In Progress		
Project:	SENG 637 ATM		
Components:	None		
Affects versions:	None		
Fix versions:	None		
Parent:	Assignment 1		
Type:	Bug	Priority:	High
Reporter:	Sayan Nath	Assignee:	Unassigned
Resolution:	Unresolved	Votes:	0
Labels:	Session		
Remaining Estimate:	Not Specified		
Time Spent:	Not Specified		
Original estimate:	Not Specified		
Attachments:	Screenshot 2024-02-04 at 6.58.32 AM.png		
Rank:	0 i0002j:		
SUT Version:	1.0, 1.1		
Function being Tested:	Session		
Test Type:	Exploratory Test		

Description	
When a user enters an invalid card into the ATM, the ATM still asks for the PIN number	
Function being tested: Session	
Initial state of the system: The ATM is one and waits for the user to insert a card.	
Steps to reproduce: <div><div>1. Turn the ATM system ON.</div><div>2. Type a Card Number such as 12</div><div>3. Click on insert card.</div></div>	
Version 1.0	
Expected Outcome:	

System should print a failure message such as "Invalid Card" as soon as the card is inserted.

Actual Outcome:

When the PIN is entered, then the ATM system shows "Failure Invalid Card"

Version 1.1

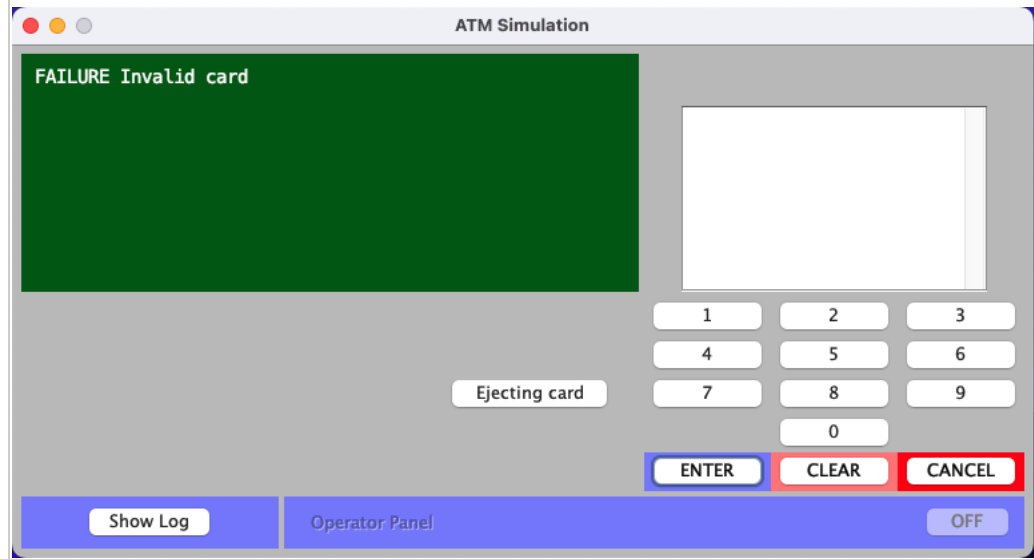
Expected Outcome:

System should print a failure message such as "Invalid Card" as soon as the card is inserted.

Actual Outcome:

When the PIN is entered, then the ATM system shows "Failure Invalid Card"



Screenshot



[SENG637-4] Assignment 1 Created: 04/Feb/24 Updated: 04/Feb/24

Status:	To Do		
Project:	SENG 637 ATM		
Components:	None		
Affects versions:	None		
Fix versions:	None		
Type:	Epic	Priority:	Medium
Reporter:	Afif Al Mamun	Assignee:	Unassigned
Resolution:	Unresolved	Votes:	0
Labels:	None		
Remaining Estimate:	Not Specified		
Time Spent:	Not Specified		
Original estimate:	Not Specified		
Rank:	0 i0001z:		
Issue color:	purple		

Assignment 1 (SENG637-4)

 [SENG637-3] Incorrect receipt balance on balance transfer Created: 04/Feb/24 Updated: 06/Feb/24			
Status:	In Progress		
Project:	SENG 637 ATM		
Components:	None		
Affects versions:	None		
Fix versions:	None		
Parent:	Assignment 1		
Type:	Bug	Priority:	Highest
Reporter:	Afif Al Mamun	Assignee:	Unassigned
Resolution:	Unresolved	Votes:	0
Labels:	Transfer		
Remaining Estimate:	Not Specified		
Time Spent:	Not Specified		
Original estimate:	Not Specified		
Attachments:	 image-20240204-072222.png		
Rank:	0 i0001r:		
SUT Version:	1.0, 1.1		
Function being Tested:	Transfer		
Test Type:	Exploratory Test		

Description

When a user transfers a balance to another account, the receipt shows an incorrect updated balance.

Function being tested: Transfer

Initial state of the system: System is displaying a request for the customer to type a dollar amount to transfer

Steps to reproduce:

1. Start the ATM system

2. Provide valid bills

3. Insert default card 1 with PIN 42

4. Select "Transfer" from the menu

5. Select "Checking" from "Account to transfer from"

6. Select "Saving" from "Account to transfer to"

7. Insert an amount of 10.00

Version 1.0

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)

Actual Outcome:

System printed an incorrect updated balance in the receipt. For example, if \$10 is transferred, the receipt shows \$9.50 and the updated balance becomes \$1009.50 when the initial balance was \$100.

Version 1.1

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)

Actual Outcome

System printed an incorrect updated balance in the receipt. For example, if \$10 is transferred, the updated balance becomes \$1010 when the initial balance is \$100.

Screenshot

