

ATM Interface in Java (Console Based Application)

Wireframe Documentation



Overview

This document outlines the wireframe and features of an ATM Interface implemented as a console-based Java application. The interface will allow users to perform the following operations:

- 1. View Account Balance
- 2. Deposit Money
- 3. Withdraw Money
- 4. View Transaction History
- 5. Exit

Wireframe Design

ATM MAIN MENU	
1. View Balance	
2. Deposit Money	
3. Withdraw Money	
4. Transaction History	
5. Exit	



_	View Balance:
	ACCOUNT BALANCE
<u> </u>	Your current balance is: \$ <balance></balance>
F	Press Enter to return to the main menu.
Ι	Deposit Money:
=	DEPOSIT MONEY
F	Enter the amount you want to deposit: \$ _
I	Deposit successful! Your new balance is: \$ <new_balan< td=""></new_balan<>
=	

iv. Withdraw Money:



WITHDRAW MONEY
Enter the amount you want to withdraw: \$ _
Withdrawal successful! Your new balance is: \$ <new_balance></new_balance>
Insufficient funds! Please try again.
Press Enter to return to the main menu.
Transaction History:
TRANSACTION HISTORY
1. Deposit: \$50.00 New Balance: \$550.00
2. Withdrawal: \$20.00 New Balance: \$530.00
3. Deposit: \$100.00 New Balance: \$630.00
Press Enter to return to the main menu
Exit:



THANK YOU FOR USING OUR ATM

Feature Details

1. View Account Balance

• Retrieve and display the user's current account balance from the database or a temporary storage variable.

2. Deposit Money

- Prompt the user to input the deposit amount.
- Validate the input (non-negative values only).
- Update the balance and record the transaction.

3. Withdraw Money

- Prompt the user to input the withdrawal amount.
- Validate the input (must not exceed the available balance).
- Deduct the amount from the balance and record the transaction.

4. Transaction History

- Maintain a list of transactions.
- Display the list with details of each transaction (type, amount, and resulting balance).

5. Exit

• End the program gracefully with a thank-you message.



Java Code Modules

Main Class:

- Contains the main menu loop.
- Calls respective methods for each menu option.

Methods:

- 1. viewBalance()
- 2. depositMoney()
- 3. withdrawMoney()
- 4. viewTransactionHistory()
- 5. exitATM()

Data Structures:

- Balance: double balance
- Transaction History: ArrayList<String>