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Toronto Metropolitan University CPS406 - Group 6 Introduction to Software Engineering

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Introduction

The ATM banking system project aims to design and develop a software application that will simulate the functions of an ATM machine. The system will be designed to be user-friendly, secure, and reliable, and it will offer a range of services that will allow users to carry out various banking operations with ease.

Installation

To start METcash, extract the zip folder containing the METcash.jar (Oracle Java Runtime Environment required) and run the program.

Welcome Start

Start: Begin software that takes the user to a Loading Screen .



Loading screen

Application Login Info

Displays the Insert Card User details such as:

Card details, Expiry Date and PIN

Displays the transaction menu for the User which has different activities sections :

Withdraw, Deposit, Pay Bills, Change Pin, Transfer Funds

Logout: Logs user out of session. Returns to Login page



Insert Card: Insert Card Menu Screen

Welcome, Sidra Musheer		
Withdraw		Account Info
Deposit		Change Pin
Pay Bills		Transfer Funds

Account Info

Name: this section contains

the user's First name & Last name

Address: this section contains the address used

to log into the system.

Account Balance: Enter the initial balance

for the chosen account(s).

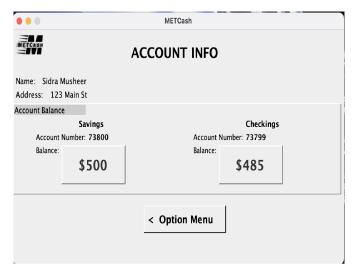
Account Type: Choose the type of account - Saving Account,

Checking Account, or both.

Account Number: Enter the account number

for the chosen account(s)
Option Menu: Click to access

the other system account informations



Account Information Page

Withdraw

Insert your card and enter your PIN.

Select "Withdraw" from the main menu.

Choose the desired amount from options: 20, 40, 80, 100, 200, or 300 units.

Confirm the amount and account (if prompted).

The ATM will dispense the cash in the selected denominations.

The user will be sent back to the option menu or will be logged out



Withdraw: Error if Confirm button clicked without choosing amount

Transfer Funds Menu:

The ATM offers two types of transactions in the Transaction Menu: "**Transfer Funds: To Account**" and **"Transfer Funds: Between Checking/Savings."** These options provide users with flexibility to transfer funds between different accounts within their banking relationship.

Transfer Funds: To Account

The "Transfer Funds: To Account" feature prompts users to specify the source and destination accounts for the transfer.

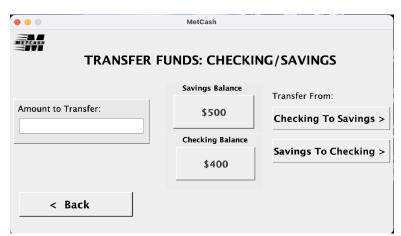
This can be done by entering account numbers or selecting accounts from provided options, ensuring users have control over the transaction accurate and secure fund transfers between designated accounts.



Transfer Funds: Transfer Funds to different account screen

Transfer Funds: Checking/savings

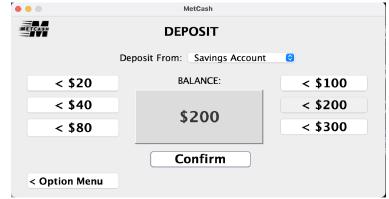
To transfer funds between checking and savings accounts at an ATM, follow the ATM's prompts to select the "Transfer Funds: Between Checking/Savings"option, choose the appropriate checking and savings accounts, enter the desired transfer amount, verify the details, confirm the transaction, and obtain a confirmation receipt from the ATM.



Transfer Funds: Checking and Savings Transfers screens

Deposit:

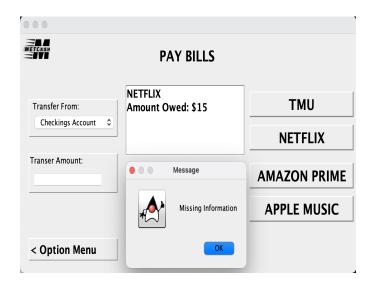
The "Deposit" feature in an ATM allows users to deposit funds into their bank account. Users typically need to insert their bank card, choose the "Deposit" option, select the desired account, deposit cash or checks, verify the details, and complete the transaction. It's important to follow the specific instructions provided in the ATM user manual



Deposit: Adding Money to Savings Account

Pay Bills:

Modern ATMs offer the convenience of paying bills directly from your checking or savings account, eliminating the need to visit physical locations or use online banking. To pay bills at an ATM, follow the provided steps, which typically involve choosing the "Pay Bills" option, selecting the service provider, entering necessary information such as account number, verifying the payment amount, confirming the transaction, and obtaining a confirmation receipt from the ATM.



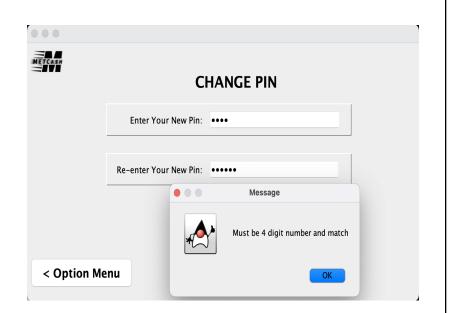
Change Pin:

To change your ATM PIN, refer to the user manual and follow these steps:
Enter your current 4-digit PIN when prompted.
Select the "Change PIN" option from the menu.
Enter your new 4-digit PIN,
choosing a unique and secure number.
Confirm your new PIN
by entering it again when prompted.
If accepted,
the ATM will display a confirmation message.
Keep your new PIN confidential and

do not share it for security reasons.

ATM services provide a comprehensive

compliant with industry regulations.



Transaction History:

transaction history
feature that securely records all transactions,
even across multiple sessions,
for convenient review. You can receive a text file at
the end of each session with detailed transaction records.
Your transaction history is private, stored securely, and

With this feature, you can confidently track and manage your ATM transactions, ensuring a complete and accurate record of your financial activities.

