

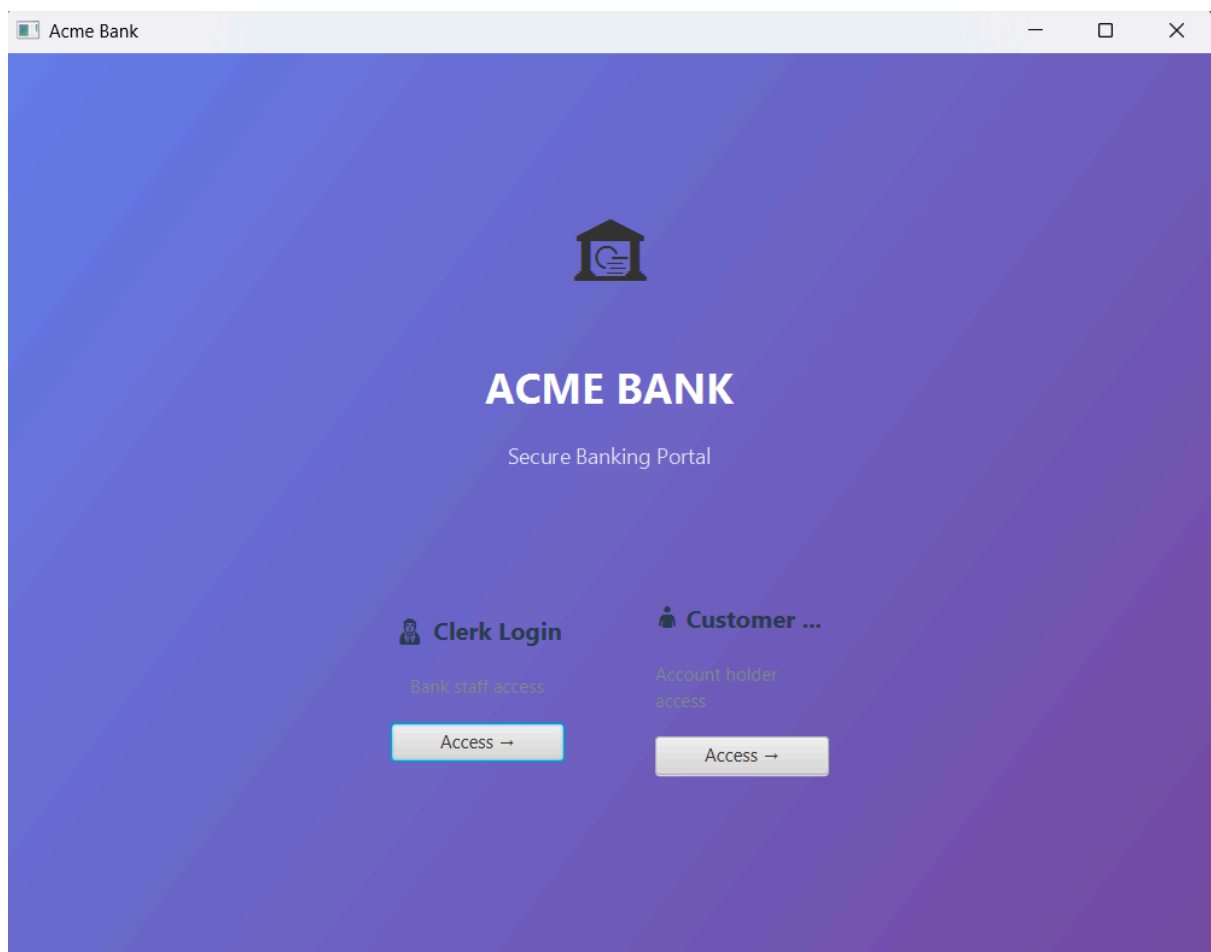
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CSE24-041

This report details the steps taken to ensure that the system generated complies with the functional and non-functional requirements established during the elicitation process. Screenshots of the Bank client's final system are displayed beneath the activities.

Step	Action	Expected Result	System Layers Involved
1. Setup	The test begins with a known state: user123 has an initial balance of \$100.00\$ in the account data file.	The state of the data file is known and verifiable.	File System (I/O)
2. Login (GUI/Authentication)	The user enters the correct login credentials, user123/password, after navigating to the login page.	After being verified, the user is taken to the Account Dashboard. To retrieve the starting balance, the Core Model reads the account file.	GUI
3. Initiate Transaction	The user inputs a deposit amount (such as \$50.00\$) after clicking the "Deposit" button.	After being approved, the input is sent to the system.	GUI

4. Process Transaction	The deposit is handled by the system's Core Model.	The new balance (P100.00 + P50.00 = P150.00) is computed by the model.	Controller
5. File System Update	The I/O Persistence Class adds a new transaction record to the transaction history file and modifies user123's account balance in the main account file.	According to the account data file, user123's balance is currently \$150.00. A new deposit record is contained in a different transaction history file.	Core Model
6. Verification (GUI)	The Account Dashboard has been updated and reloaded.	The GUI shows an account balance of P150.00.	Controller
7. Verification (File System)	The account file and the transaction history file are directly read by an external verification function.	The account file attests to the P150.00 new balance. The existence of the new P50.00 deposit record is confirmed by the history file.	I/O

8. Cleanup	The original state of the data files is restored (optional, but necessary for clean testing).	User 123's account balance is \$100.00, and the transaction history has been reset.	File System (I/O)
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Acme Bank

Welcome back,
Alice Ngwenya

Logout

My Accounts

Transactions

Banking Operations

My Accounts Overview

Account Number	Type	Balance	Branch	
IND-1000-A1	Investment	\$13940.70		
IND-1000-A2	Savings	\$7594.00		

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Logout

My Accounts

Transactions

Banking Operations

Banking Operations

Select Account: IND-1000-A1

Deposit

Enter amount...

Deposit

Withdraw

Enter amount...

Withdraw