

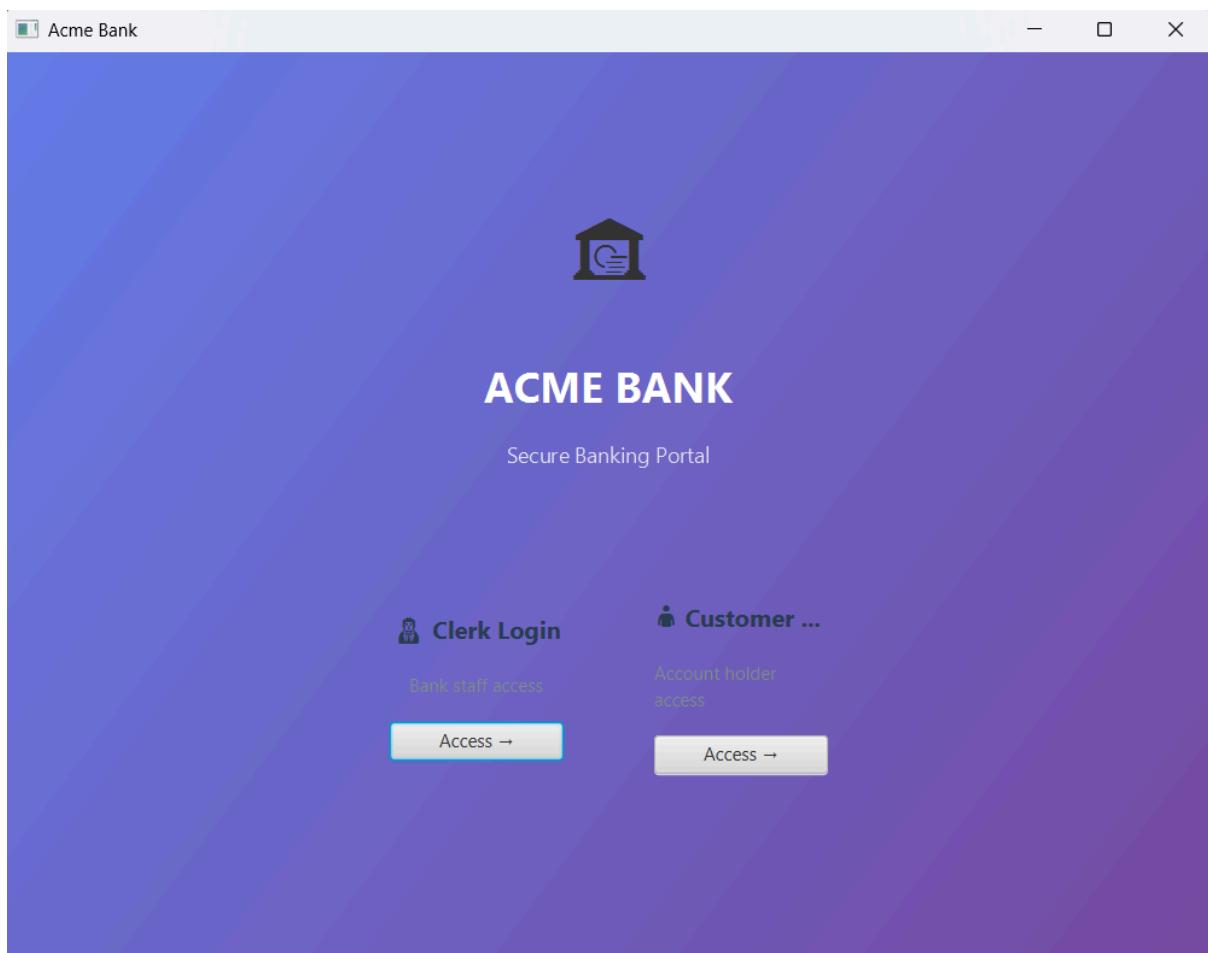
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CSE24-041

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.

<b>Step</b>	<b>Action</b>	<b>Expected Result</b>	<b>System Layers Involved</b>
<b>1. Setup</b>	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.	<b>File System (I/O)</b>
<b>2. Login (GUI/Authentication)</b>	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.	<b>GUI</b>
<b>3. Initiate Transaction</b>	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.	<b>GUI</b>

<b>4. Process Transaction</b>	The deposit is handled by the system's Core Model.	The new balance (P100.00 + P50.00 = P150.00) is computed by the model.	<b>Controller</b>
<b>5. File System Update</b>	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.	<b>Core Model</b>
<b>6. Verification (GUI)</b>	The Account Dashboard has been updated and reloaded.	The GUI shows an account balance of P150.00.	<b>Controller</b>
<b>7. Verification (File System)</b>	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.	<b>I/O</b>

<b>8. Cleanup</b>	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.	<b>File System (I/O)</b>
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The screenshot shows the Acme Bank mobile banking application. At the top, there's a header bar with the 'Acme Bank' logo and standard window control buttons (minimize, maximize, close). Below the header, a welcome message 'Welcome back, Alice Ngwenya' is displayed next to a 'Logout' button. A navigation bar at the bottom has three tabs: 'My Accounts', 'Transactions', and 'Banking Operations', with 'Banking Operations' currently selected. The main content area is titled 'Banking Operations'. It features a dropdown menu labeled 'Select Account:' containing the value 'IND-1000-A1'. Below this, there are two large buttons: a green '\$ Deposit' button and a red 'Withdraw' button. Each button has an input field above it labeled 'Enter amount...' and a corresponding action button below it labeled 'Deposit' or 'Withdraw'.