

Functional Requirements

Login & Logout

Manager

- **F1** If Manager username is invalid, system displays an error.
- **F2** If Manager password is invalid, system displays an error.

Customer

- **F3** If Customer username is invalid, system displays an error.
- **F4** If Customer password is invalid, system displays an error.
- **F5** If Customer logs out, secure pages cannot be accessed via back button.

Guest

- **F6** If Guest enters invalid login credentials, system displays an error.

Register New Customer

Manager

- **F7** If Customer details are incomplete, system displays an error.
- **F8** If Username already exists, system displays an error.

Guest

- **F9** If mandatory fields are left blank, system displays an error.
 - **F10** If Password and Confirm Password do not match, system displays an error.
 - **F11** If Username already exists, system displays an error.
-

Account Overview

Manager

- **F12** Manager can view all customer accounts. If account number is invalid, system displays an error.

Customer

- **F13** Customer can view only their own accounts. If account number does not belong to the customer, system displays an error.
-

Transaction History / Find Transactions

Manager

- **F14** Manager can view transactions of any account. If account number is invalid, system displays an error.

Customer

- **F15** Customer can view only their own transactions. If account number does not belong to the customer, system displays an error.

- F16 If search criteria (date/amount/ID) does not match any transaction, system displays “No records found.”
-

Open New Account

Manager

- **F17** Manager can open an account for any customer. If customer ID is invalid, system displays an error.

Customer

- **F18** Customer can open new accounts for themselves. If invalid account type is selected, system displays an error.
-

Fund Transfer

Manager

- **F19** If source account number is invalid, system displays an error.
- **F20** If destination account number is invalid, system displays an error.
- F21 If source account has insufficient balance, system displays an error.

Customer

- F22 If source account number is invalid, system displays an error.
- F23 If destination account number is invalid, system displays an error.
- F24 If source account has insufficient balance, system displays an error.

- F25 If source account does not belong to the customer, system displays an error.
-

Bill Payment

Customer

- F26 If Payee details are incomplete, system displays an error.
 - F27 If payment amount exceeds account balance, system displays an error.
 - F28 If From Account does not belong to the customer, system displays an error.
-

Loan Request

Manager

- F29 If Customer ID is invalid, system displays an error.
- F30 If loan amount or down payment is invalid, system displays an error.

Customer

- F31 If loan amount or down payment is invalid, system displays an error.
 - F32 If From Account does not belong to the customer, system displays an error.
-

Update Info

Manager

- F33 If Customer ID is invalid, system displays an error.

Customer

- F34 If Customer enters invalid details, system displays an error.
-

Delete Customer

Manager

- F35 If Customer ID is invalid, system displays an error.
 - F36 If customer still has active accounts, system displays an error.
-

Delete Account

Manager

- F37 If Account Number is invalid, system displays an error.
 - F38 If account balance is not zero, system displays an error.
-

Deposit

Manager

- F39 If destination account number is invalid, system displays an error.
- F40 If destination account does not belong to the bank, system displays an error.

Customer

- F41 If Customer tries to deposit into another customer's account, system displays an error.
-

Withdrawal

Manager

- F42 If source account number is invalid, system displays an error.
- F43 If source account has insufficient balance, system displays an error.

Customer

- F44 If source account number is invalid, system displays an error.
- F45 If source account does not belong to the customer, system displays an error.

F46 If source account has insufficient balance, system displays an error.