

# Parabank

## 1 - Testing user stories

Customer role :

ID	As a	I want to...	So that..
CU1	Customer	Log in securely to my account	I can access my personal banking dashboard
CU 2	Customer	View my account balances and recent transactions	I can monitor my financial activity
CU 3	Customer	Transfer funds between my accounts	I can manage my money efficiently
CU 4	Customer	Pay bills online	I can settle payments without visiting the bank
CU 5	Customer	Request a loan	I can get financial support when needed
CU 6	Customer	Update my personal contact details	My account information stays current
CU 7	Customer	Open a new checking or savings account	I can manage multiple types of accounts
CU 8	Customer	Log out safely	My session and personal data remain secure

Guest role:

ID	As a...	I want to...	So that...
GU 1	Guest	Access the website without logging in	I can learn about the bank's services
GU 2	Guest	Register for a new account	I can become a customer
GU 3	Guest	Recover my forgotten login info	I can regain access to my account

## Manager role :

ID	As a...	I want to...	So that...
MA 1	Manager	View and manage all customer accounts	I can assist or audit users
MA 2	Manager	Approve or reject loan applications	I can control loan disbursement
MA 3	Manager	Deposit or withdraw money for customers	I can simulate branch-level operations
MA 4	Manager	Delete inactive customers or accounts	I can maintain a clean system
MA 5	Manager	Edit any customer's information	I can correct errors or update details

## 2 - Use cases

### Use Case 1: Customer Login

**Actor:** Customer

**Precondition:** Customer has a valid username and password.

**Main Flow:**

1. Customer navigates to the login page.
2. Enters username and password.
3. System validates credentials.
4. Upon success, redirects to Customer Home Page.

**Alternate Flow:**

- If credentials are invalid → display error “The username and password could not be verified.”
- If 3 invalid attempts → session resets.

### Use Case 2: Register New Customer

**Actor:** Guest / Manager

**Precondition:** Registration form is accessible.

**Main Flow:**

1. Guest clicks “Register.”
2. Fills required personal and account details.
3. System validates inputs.
4. New account is created and welcome message displayed.

**Alternate Flow:**

- If username exists → display “This username is already taken.”
  - If required fields missing → display “Field cannot be blank.”
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## **Use Case 3: View Account Overview**

**Actor: Customer / Manager**

**Precondition: User logged in.**

**Main Flow:**

1. User clicks “Accounts Overview.”
2. System displays account number, type, and balance.

**Alternate Flow:**

- Invalid or unauthorized account → display “Access Denied.”
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## **Use Case 4: Transfer Funds**

**Actor: Customer / Manager**

**Precondition: User logged in and has valid accounts.**

**Main Flow:**

1. User opens Transfer Funds page.
2. Enters amount, source, and destination accounts.
3. System validates entries and updates balances.

**Alternate Flow:**

- Same source and destination → “Cannot transfer to the same account.”
  - Insufficient funds → “Insufficient funds.”
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## **Use Case 5: Bill Payment**

**Actor: Customer**

**Precondition: Customer logged in.**

**Main Flow:**

1. Customer adds payee details.
  2. Enters amount and selects From Account.
  3. System validates and processes payment.
- Alternate Flow:**
- Invalid payee or amount → display relevant error.
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## Use Case 6: Loan Request & Approval

**Actor: Customer (request), Manager (approval)**

**Main Flow:**

1. Customer fills loan form (amount, down payment, account).
  2. System validates input and creates request.
  3. Manager reviews and approves/rejects loan.
  4. Status displayed to Customer.
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## Use Case 7: Update Contact Info

**Actor: Customer / Manager**

**Main Flow:**

1. User opens Update Info page.
2. Edits address, phone, or other fields.
3. Clicks “Update.”
4. System validates and saves changes.

**Alternate Flow:**

- If any required field is blank → “Field cannot be blank.”
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## Use Case 8: Delete Customer/Account

**Actor: Manager**

**Precondition: Customer/account has no active balance.**

**Main Flow:**

1. Manager selects customer/account to delete.
2. System checks conditions.
3. Deletes record and shows confirmation.

**Alternate Flow:**

- Active accounts → “Cannot delete customer with active accounts.”
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## Use Case 9: Forgot Login Info

**Actor:** Guest / Customer / Manager

**Main Flow:**

1. User clicks “Forgot login info.”
2. Enters identifying details.
3. System validates and retrieves login information.

**Alternate Flow:**

- Invalid SSN or no match → “No customer information found.”
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## Use Case 10: Logout

**Actor:** Customer / Manager

**Main Flow:**

1. User clicks “Logout.”
2. System ends session and redirects to Login page.

**Postcondition:** Secure pages cannot be accessed via browser back button.