Functional Test Cases

Customer Login

Test Case ID	Test Case Description	Steps	Expected Result	Test Data
TC001	Verify valid user login	1. Navigate to login page 2. Enter valid username and password 3. Click 'Log In'	User is successfully logged in and redirected to account services page	Username: maria.popa, Password: Test@123
TC002	Verify login failure with incorrect credentials	1. Navigate to login page 2. Enter incorrect username or password 3. Click 'Log In'	Error message displayed: "Invalid username or password"	Username: invalidUser, Password: wrongPass
TC003	Verify 'Forgot login info?' functionality	1. Click 'Forgot login info?' 2. Enter required details 3. Submit request	User receives instructions for account recovery	Email: maria.popa@example.com
TC004	Verify new user registration	1. Click 'Register' 2. Enter required information 3. Submit form	New user account is created successfully	Name: Maria Popa, Email: maria.popa@example.com, Password: Test@123

Account Services

Test Case ID	Test Case Description	Steps	Expected Result	Test Data
TC005	Open new account	1. Navigate to 'Open New Account' 2. Select account type 3. Submit request	New account is created and displayed in account overview	Account Type: Checking
TC006	View account overview	1. Log in 2. Navigate to 'Accounts Overview'	User sees account balance and available amount	Account Number: 15786
TC007	Transfer funds	1. Log in 2. Navigate to 'Transfer Funds' 3. Enter transfer details 4. Submit request	Funds are transferred successfully with confirmation	From Account: 15786, To Account: 12345, Amount: $100
TC008	Bill payment functionality	1. Log in 2. Navigate to 'Bill Pay' 3. Enter biller details 4. Submit payment	Payment is processed successfully	Biller Name: Utility Corp, Account Number: 45678, Amount: $50
TC009	View transaction history	1. Log in 2. Navigate to 'Find Transactions'	User sees a list of past transactions	Account Number: 15786
TC010	Update contact information	1. Log in 2. Navigate to 'Update Contact Info' 3. Modify details 4. Submit form	Contact information is updated successfully	New Phone: 123-456-7890
TC011	Loan request process	1. Log in 2. Navigate to 'Request Loan' 3. Enter loan details 4. Submit request	Loan request is submitted successfully	Loan Amount: $5000, Term: 12 months
TC012	Log out functionality	1. Log in 2. Click 'Log Out'	User is logged out and redirected to the login page	No specific test data required

Navigation & UI

Test Case ID	Test Case Description	Steps	Expected Result	Test Data
TC013	Verify all menu links work correctly	1. Navigate through all menu items	Each menu item loads the correct page	No specific test data required
TC014	Validate correct page redirections	1. Click on various links and buttons	User is taken to the appropriate page	No specific test data required
TC015	Verify UI elements display properly	1. Open application on different resolutions 2. Check text, buttons, and form fields	UI elements are aligned and displayed correctly	Screen Resolutions: 1366x768, 1920x1080, 1440x900

Functional E2E Test Flows

1. Customer Login and Account Overview

Steps:

Navigate to the ParaBank login page.
Enter valid credentials (Username: maria.popa, Password: Test@123).
Click 'Log In'.
Verify redirection to the account services page.
Navigate to 'Accounts Overview'.
Verify displayed balance and available amount.
Log out and ensure redirection to the login page.

Expected Result:

User is successfully logged in.
Account balance and available funds are displayed correctly.
User is logged out successfully.

2. Fund Transfer and Transaction History

Steps:

Log in with valid credentials.
Navigate to 'Transfer Funds'.
Enter valid transfer details (From Account: 15786, To Account: 12345, Amount: $100).
Submit the transfer request.
Verify transfer confirmation message.
Navigate to 'Find Transactions'.
Verify the transferred amount is reflected in the transaction history.
Log out.

Expected Result:

Funds are transferred successfully.
Transaction history reflects the recent transfer.
User is logged out securely.

3. Bill Payment and Account Validation

Steps:

Log in with valid credentials.
Navigate to 'Bill Pay'.
Enter biller details (Biller Name: Utility Corp, Account Number: 45678, Amount: $50).
Submit the payment.
Verify confirmation message for bill payment.
Navigate to 'Accounts Overview'.
Verify the account balance reflects the bill payment deduction.
Log out.

Expected Result:

Bill payment is processed successfully.
Account balance is updated correctly.
User logs out successfully.

4. Loan Request and Contact Information Update

Steps:

Log in with valid credentials.
Navigate to 'Request Loan'.
Enter loan details (Loan Amount: $5000, Term: 12 months).
Submit the loan request.
Verify confirmation message.
Navigate to 'Update Contact Info'.
Modify details (New Phone: 123-456-7890) and submit.
Verify updated information is displayed correctly.
Log out.

Expected Result:

Loan request is submitted successfully.
Contact information updates correctly.
User logs out securely.

5. UI and Navigation Validation

Steps:

Navigate through all menu items and ensure proper loading.
Click various links and buttons to verify correct redirection.
Open the application on different screen resolutions (1366x768, 1920x1080, 1440x900).
Verify UI elements, including text, buttons, and form fields.

Expected Result:

Menu links work as expected.
UI elements display correctly across different screen sizes.
No misalignment or broken elements are present.