Test Case ID: TC-004-01

Description: Verify successful recording of an income transaction with valid data. **Preconditions:**

- The system has at least one income account (e.g., "Rent Income") and one asset account (e.g., "Bank Account SBI") created.
- The "Bank Account SBI" has a positive balance.

Test Steps:

- 1. Navigate to the "Record Transaction" screen.
- 2. Select "Rent Income" as the income account.
- 3. Select "Bank Account SBI" as the asset account.
- 4. Enter a valid date (defaults to current date).
- 5. Enter a valid positive amount (e.g., 1000).
- 6. Enter a description (e.g., "July Rent").
- 7. Click "Save Transaction".

Expected Result:

- The transaction is recorded successfully.
- The balance of "Rent Income" and "Bank Account SBI" is updated correctly.
- A confirmation message "Transaction recorded successfully" is displayed.

Test Case ID: TC-004-02

Description: Verify successful recording of an expense transaction with sufficient funds.

Preconditions:

- The system has at least one expense account (e.g., "Staff Salaries") and one asset account (e.g., "Bank Account SBI") created.
- The "Bank Account SBI" has a balance greater than the expense amount (e.g., 2000).

Test Steps:

- 1. Navigate to the "Record Transaction" screen.
- 2. Select "Staff Salaries" as the expense account.
- 3. Select "Bank Account SBI" as the asset account.
- 4. Enter a valid date.
- 5. Enter a valid positive amount (e.g., 1500).
- 6. Enter a description (e.g., "August Salaries").
- 7. Click "Save Transaction".

Expected Result:

- The transaction is recorded successfully.
- The balance of "Bank Account SBI" is reduced by the transaction amount.
- A confirmation message "Transaction recorded successfully" is displayed.

Test Case ID: TC-004-03

Description: Verify system prevents expense transaction with insufficient funds. **Preconditions:**

- The system has at least one expense account (e.g., "Maintenance") and one asset account (e.g., "Cash in Hand") created.
- The "Cash in Hand" has a balance of 500.

Test Steps:

- 1. Navigate to the "Record Transaction" screen.
- 2. Select "Maintenance" as the expense account.
- 3. Select "Cash in Hand" as the asset account.
- 4. Fnter a valid date.

- 5. Enter an amount greater than the available balance (e.g., 600).
- 6. Enter a description (e.g., "Repair Work").
- 7. Click "Save Transaction".

Expected Result:

- The system blocks the transaction.
- An error message "Insufficient funds. Transaction cannot be processed" is displayed.
- The balance of "Cash in Hand" remains unchanged.

Test Case ID: TC-004-04

Description: Verify system handles future-dated transactions correctly.

Preconditions:

• The system has at least one income account (e.g., "Rent Income") and one asset account (e.g., "Bank Account - SBI") created.

Test Steps:

- 1. Navigate to the "Record Transaction" screen.
- 2. Select "Rent Income" as the income account.
- 3. Select "Bank Account SBI" as the asset account.
- 4. Enter a future date (e.g., next month).
- 5. Enter a valid positive amount (e.g., 1000).
- 6. Enter a description (e.g., "Advance Rent").
- 7. Click "Save Transaction".

Expected Result:

- The transaction is recorded successfully with the future date.
- The balance of "Rent Income" and "Bank Account SBI" is updated.
- A confirmation message "Transaction recorded successfully" is displayed.

Test Case ID: TC-004-05

Description: Verify system validates invalid data input (non-numeric amount). **Preconditions:**

 The system has at least one expense account (e.g., "Utilities") and one asset account (e.g., "Bank Account - SBI") created.

Test Steps:

- 1. Navigate to the "Record Transaction" screen.
- 2. Select "Utilities" as the expense account.
- 3. Select "Bank Account SBI" as the asset account.
- 4. Enter a valid date.
- 5. Enter a non-numeric value in the "Amount" field (e.g., "abc").
- 6. Enter a description (e.g., "Electricity Bill").
- 7. Click "Save Transaction".

Expected Result:

- The system prevents the transaction from being saved.
- An inline error message "Invalid amount entered" is displayed near the "Amount" field.

Test Case ID: TC-004-06

Description: Verify system validates missing required fields (account selection). **Preconditions:**

• The system has at least one expense account (e.g., "Utilities") and one asset account (e.g., "Bank Account - SBI") created.

Test Steps:

- 1. Navigate to the "Record Transaction" screen.
- 2. Leave the "Account" field blank.
- 3. Enter a valid date.
- 4. Enter a valid positive amount (e.g., 200).
- 5. Enter a description (e.g., "Water Bill").
- 6. Click "Save Transaction".

Expected Result:

- The system prevents the transaction from being saved.
- An inline error message "Account selection is required" is displayed near the "Account" field.

User Story US-001: Create a New Financial Account

Test Case ID: TC-001-01

Description: Verify successful creation of a new financial account with valid data.

Preconditions: None.

Test Steps:

- 1. Navigate to "Create New Account" screen.
- 2. Enter "Office Rent Income" in the "Account Name" field.
- 3. Select "Income" from the "Account Type" dropdown.
- 4. Enter an optional description (e.g., "Monthly rental income from tenants").
- Click "Save Account".

Expected Result:

- Account is created successfully with an opening balance of 0.
- Confirmation message "Account created successfully" is displayed.

Test Case ID: TC-001-02

Description: Verify system enforces mandatory fields (Account Name and Type).

Preconditions: None.

Test Steps:

- 1. Navigate to "Create New Account" screen.
- 2. Leave "Account Name" blank.
- 3. Select "Expense" from the "Account Type" dropdown.
- 4. Click "Save Account".

Expected Result:

- System displays error: "Account Name is required".
- Account is not created.

User Story US-002: Update Existing Account Details

Test Case ID: TC-002-01

Description: Verify successful update of account details.

Preconditions: An account named "Maintenance Expenses" (Type: Expense) exists.

Test Steps:

- 1. Navigate to "View Accounts" screen.
- 2. Select "Maintenance Expenses" and click "Edit".
- 3. Change the name to "Building Maintenance".
- 4. Update the description to "Includes plumbing and electrical repairs".
- 5. Click "Save Changes".

Expected Result:

- Account details are updated.
- Confirmation message "Account updated successfully" is displayed.

Test Case ID: TC-002-02

Description: Verify system prevents invalid opening balance updates.

Preconditions: An account named "Petty Cash" (Type: Cash, Balance: 500) exists.

Test Steps:

- 1. Navigate to "View Accounts" screen.
- 2. Select "Petty Cash" and click "Edit".
- 3. Change the opening balance to "ABC".
- 4. Click "Save Changes".

Expected Result:

- System displays error: "Opening balance must be numeric".
- Changes are not saved.

User Story US-003: View a List of All Accounts

Test Case ID: TC-003-01

Description: Verify all accounts are displayed with correct details.

Preconditions: At least 3 accounts of different types (Income, Expense, Asset)

exist.

Test Steps:

- 1. Navigate to "View Accounts" screen.
- 2. Observe the list of accounts.

Expected Result:

- All accounts are displayed with columns: Account Name, Type, Current Balance
- Data is sorted alphabetically by Account Name by default.

Test Case ID: TC-003-02

Description: Verify filtering by account type (e.g., "Bank").

Preconditions: At least one "Bank" type account exists.

Test Steps:

- 1. Navigate to "View Accounts" screen.
- 2. Select "Bank" from the "Filter by Type" dropdown.
- Click "Apply Filter".

Expected Result:

• Only accounts of type "Bank" are displayed.

User Story US-005: Prevent Overdrafts in Cash and Bank Accounts

Test Case ID: TC-005-01

Description: Verify system blocks overdraft transactions. **Preconditions:** "Bank Account - SBI" has a balance of 1000.

Test Steps:

- 1. Navigate to "Record Transaction" screen.
- 2. Select an expense account (e.g., "Salaries").
- 3. Select "Bank Account SBI" as the funding account.
- 4. Enter an amount of 1500.
- 5. Click "Save Transaction".

Expected Result:

- System displays error: "Insufficient funds. Transaction cannot be processed".
- Balance remains unchanged.

User Story US-006: Generate an Account Status Report

Test Case ID: TC-006-01

Description: Verify report generation with date range filter.

Preconditions: Multiple transactions exist across different dates.

Test Steps:

- 1. Navigate to "Account Status Report" screen.
- 2. Select a date range (e.g., "Jan 1, 2025 Jan 31, 2025").
- 3. Click "Generate Report".

Expected Result:

- Report loads within 2 seconds.
- Only balances for the selected date range are displayed.

User Story US-007: View Total Cash and Bank Balances

Test Case ID: TC-007-01

Description: Verify combined totals for Cash and Bank accounts.

Preconditions:

- "Cash in Hand" balance: 500.
- "Bank Account SBI" balance: 2000.

Test Steps:

1. Navigate to "Fund Status Report" screen.

Expected Result:

- Report displays:
 - o "Total Cash in Hand: 500".
 - o "Total Bank Accounts: 2000".

User Story US-008: Review Transaction History

Test Case ID: TC-008-01

Description: Verify filtering by account and date.

Preconditions: Transactions exist for "Rent Income" in January 2025.

Test Steps:

- 1. Navigate to "Transaction History" screen.
- 2. Select "Rent Income" from the account filter.
- 3. Set date range to "Jan 1, 2025 Jan 31, 2025".
- 4. Click "Apply Filter".

Expected Result:

- Only transactions for "Rent Income" within January 2025 are displayed.
- Results are sorted by date (newest first).

User Story US-009: Calculate Monthly Profit and Loss

Test Case ID: TC-009-01

Description: Verify correct P&L calculation for a month.

Preconditions:

- January 2025 Income: 5000.
- January 2025 Expenses: 3000.

Test Steps:

- 1. Navigate to "Monthly P&L Report" screen.
- 2. Select "January 2025".
- 3. Click "Calculate".

Expected Result:

- System displays:
 - o "Total Income: 5000".
 - o "Total Expenses: 3000".
 - o "Net Profit: 2000".