**Test Case 1: Initial State of Expenses Management**

ID: TC\_001

**Description:** This test case verifies the initial state of the expenses management application.

**Precondition:** The application is launched for the first time.

**Test Steps:**

1. Open the application.
2. Check if the list of expenses is empty.
3. Verify that the expense sum section at the bottom displays the current sum as 0.00.

**Test Data:** None

**Expected Result:** The list of expenses is empty, and the expense sum section at the bottom displays the current sum as 0.00.

**Test Case 2: Adding an Expense**

ID: TC\_002

**Description:** This test case verifies the addition of a new expense to the application.

**Precondition:** The application is launched.

**Test Steps:**

1. Click on the "plus" button to add a new expense.
2. Enter a name, amount (e.g., 20.50), and date for the new expense.Click the "Submit” button.
3. Confirm the addition of the expense.

**Test Data:** Expense name, amount (20.50), date.

**Expected Result:** The expense is added to the list, and the expense sum section is updated.

**Test Case 3: Editing an Expense**

ID: TC\_003

**Description:** This test case verifies the editing of an existing expense in the application.

**Precondition:** At least one expense is added.

**Test Steps:**

1. Hover over the added expense.
2. Click on the edit option.
3. Modify the name, amount, and date of the expense.
4. Confirm the changes.

**Test Data:** Modified expense name, amount, and date.

**Expected Result:** The expense details are updated in the list, and the expense sum section is recalculated.

**Test Case 4: Deleting an Expense**

ID: TC\_004

**Description:** This test case verifies the deletion of an existing expense from the application.

**Precondition:** At least one expense is added.

**Test Steps:**

1. Hover over the added expense.
2. Click on the delete option.
3. Confirm the deletion.

**Test Data:** None

**Expected Result:** The expense is removed from the list, and the expense sum section is updated accordingly.

**Test Case 5: Checking Total Expense Sum**

ID: TC\_005

**Description:** This test case verifies that the total expense sum is always accurate.

**Precondition:**  Expenses are added and/or modified.

**Test Steps:**

1. Check the expense sum section at the bottom of the list.

**Test Data:** None

**Expected Result:** The expense sum section displays the current sum of all expenses accurately.

**Test Case 6: Saving Expense Data After Closing**

ID: TC\_006

**Description:** This test case verifies that expense data is saved after closing and reopening the application.

**Precondition:**  Expenses are added.

**Test Steps:**

1. Expenses are added.
2. Reopen the application.

**Test Data:** None

**Expected Result:** The previously added expenses are still present in the list, and the expense sum is accurate.