**Functional Test Cases**

**Test Case 1: Checking Loan Amount and Loan Period Input**

Input valid loan amount and loan period.

*Expected Result:* Calculator accepts the input and provides the correct monthly payment.

**Test Case 2: Checking Changes in Loan Amount or Loan Period**

Change the previously entered loan amount or loan period.

*Expected Result:* The calculator should recalculate and display the new monthly payment amount

**Test Case 3: Checking Modal Closure Retains Information**

Enter valid loan amount and loan period. Close the modal and reopen it.

*Expected Result:* The loan amount and period should still be available and used in the application process.

**Test Case 4: Checking Changes Without Saving**

Enter valid loan amount and loan period. Change the loan amount or period without saving.

Close and reopen the modal.

*Expected Result*: The changes made without saving should not be reflected. The previous saved values should be retained.

**Negative Test Cases**

**Test Case 5: Input Invalid Loan Amount**

Input invalid or unrealistic loan amount.

*Expected Result:* The calculator should fix an error and not allow the user to proceed with invalid data.

**Test Case 6: Input Invalid Loan Period**

Input invalid or unrealistic loan period.

*Expected Result:* The calculator should fix an error and not allow the user to proceed with invalid data.

**Boundary Test Cases**

**Test Case 7: Minimum Loan Amount and Loan Period**

Input the minimum loan amount and loan period allowed by the system.

Expected Result: The calculator should accept the input and provide monthly payment.

**Test Case 8: Maximum Loan Amount and Loan Period**

Input the maximum loan amount and loan period allowed by the system.

*Expected Result:* The calculator should accept the input and provide the correct monthly payment.

**Reasoning Behind the Chosen Scenarios:**

Positive test cases ensure that the basic functionality works as expected. Negative tests help ensure that the calculator handles invalid inputs. Boundary tests help identify potential issues near the edges of valid input ranges.

**Bugs/improvements**

The Loan Amount slider could have steps like 50 or 100 when the user tries to set up an amount. Usually clients take round loans and it's quite difficult to set up round values.