**TODO Application**

**Test Plan**

**Test Environment:**

* **Browser:** Chromium family browsers
* **OS:** Ubuntu

# **Test Scope**

**1. Task Creation**

**Precondition:** User is logged into the TODO List application.

1. **Scenario:** User creates a new task.
   * **Test Steps:**
     1. Click on the " Task creator bar".
     2. Enter task details such as title, description, due date.
   * **Expected Result:** The new task should be added to the list with the provided details.

**2.** **Task Edit**

**Precondition:** User has at least one existing task in the TODO List.

1. **Scenario:** User edits an existing task.
   * **Test Steps:**
     1. Locate the task to be edited in the task list.
     2. Double click on the task to "Edit" .
     3. Modify the task details (e.g., title, description, due date).
   * **Expected Result:** The task details should be updated as per the modifications made by the user.

**3. Task Status Change**

**Precondition:** User has at least one existing task in the TODO List.

1. **Scenario:** User changes the status of a task.
   * **Test Steps:**
     1. Locate the task in the task list.
     2. Click on the task to view its details.
     3. Change the status of the task (e.g., from "Active" to "Completed").
   * **Expected Result:** The status of the task should be updated accordingly.

**4.** **Task Deletion**

**Precondition:** User has at least one existing task in the TODO List.

1. **Scenario:** User deletes an existing task.
   * **Test Steps:**
     1. Locate the task in the task list.
     2. Click on the "cross mark" button for that task.
     3. Confirm the deletion action.
   * **Expected Result:** The task should be removed from the list and no longer visible.

**5. Task Status Views**

**Precondition:** User has tasks with different statuses in the TODO List.

1. **Scenario:** User views tasks based on status.
   * **Test Steps:**
     1. Navigate to the task status views section (e.g., tabs for "All," "Completed," "Active," etc.).
     2. Verify that tasks are displayed based on their respective statuses.
   * **Expected Result:** Tasks should be categorized and displayed correctly under their corresponding status views.

# Test Use cases using BDD

Task Deletion:

* Given there is a task "Live your Life" in the task list
* When the user deletes " Live your Life " task
* Then " Live your Life " task should be removed from the task list

Task Edit:

* Given there is a task "Act like a Human" in the task list
* When the user edits “Act like a Human " with new description as “Act like a Human behave like a Buddha”
* Then “Act like a Human” task should be updated as “Act like a Human behave like a Buddha”
* And the changes should be reflected in the task list

# Test Approach

## Test Objectives

* Check if tasks can be effectively added, modified, and deleted.
* Ensure that the tasks are shown under the appropriate status tabs.

## Test Assumptions

* Prior to beginning testing, the test environment is deployed without any problems.
* Functional testing can be conducted using the provided test data.
* Software & tools required to perform testing are available to testers.

## Types of Testing

The tests listed below are recommended for TODO application.

Functional Testing:

* Component testing
* Smoke testing
* Integration testing
* Regression testing
* Sanity testing
* System testing
* Acceptance testing

## Test Entry and Exit Criteria

Entry requirements to initiate the test's execution phase and exit criteria to bring it to a close.

1. **Entry criteria:**

* There exist one or more test environments.
* Test information is at hand.
* Integration has been finished.
* The product owner completes, examines, and approves test scripts.

1. **Exit criteria:**

* 100% Test Scripts executed.
* A report on the execution of the test that captures and documents all expected and actual results together with the test script for SIT and regression.
* Following bug fixes and retesting, all failed test cases are redone.
* No open Critical and High severity defects
* Any unresolved issues should be deferred to a later release with the product owner's consent.
* Any comments or clarifications are tagged as improvements and added to the next release.

1. **Test suspension criteria:**

* If flaws are discovered during the smoke test suite execution that prevent the happy route, the QA team has the option to halt the test until the development team fixes the blocker problems.
* QA signoff - Should the execution status of the Regression test suite be 40% failed, the QA team may choose to suspend the execution until the Development team has resolved the failed test cases.