**QA Testing Project: To-Do List Application**

**1. Project Overview**

The purpose of this project is to systematically test the core functionalities of the application and identify any defects or usability issues before its final development.

**2. Scope**

The testing scope is limited to the functionalities:

* Adding new tasks to the list.
* Editing existing tasks.
* Deleting existing tasks.
* Clearing all tasks from the list.
* Basic User Interface (UI) and user experience (UX) validation.

**3. Methodology**

The testing approach for this project is **manual testing**. This method involves a human tester interacting directly with the application to verify its behaviour against a predefined set of test cases.

* **Test Case Creation:** Test cases were created based on the application's core requirements. Each test case includes a unique ID, a title, a description of the steps to follow, and the expected result.
* **Test Execution:** The test cases will be executed in a methodical manner, and the results (Actual Result and Status) will be recorded in the test case table.
* **Defect Reporting:** Any discrepancy between the Actual and Expected Results will be documented as a bug. The bug report will include a title, steps to reproduce the issue, and the actual/expected results.

**4. Test Environment**

* **Hardware:** Desktop computer, laptop,.
* **Software:** Any modern web browser (e.g., Chrome, Firefox, Safari).

**5. Test Cases**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test case-ID | Test case Title | Test steps | Expected Results | Actual Result | Status Pass/Fail |
| TC-ADD-1 | adding a new task | 1. Enter a valid task name (e.g: “Do Homework”) into the text field.  2. Click the "Add" button. | The new task "Do Homework" should appear as a new list item below "Task2". | Pass |  |
| TC-ADD-2 | adding an empty task | 1. Leave the text field empty.  3. Click the "Add" button. | A warning message should appear (e.g., "Task cannot be empty"). The list should not change. | Pass |  |
| TC-ADD-3 | adding a task with special characters | 1. Enter a task name with special characters (e.g., "Read book #1 & finish").  2. Click the "Add" button. | The task with special characters should be added to the list correctly. | Pass |  |
| TC-ADD-4 | adding a task with a long string | 1. Enter a very long string of characters (e.g., 200 words) into the text field.  2. Click the "Add" button. | The application should handle the long string gracefully, either by displaying the full text or truncating it with an ellipsis. It should not crash or freeze. | Pass |  |
| TC-EDIT-1 | editing a task | 1. Locate "Task1" and click the "Edit" (pencil) icon.  2. An input field should appear. Enter a new task name (e.g., "Update Task1"). 2  3 Save the changes. | The task "Task1" should be renamed to "Update Task1". | Pass |  |
| TC-EDIT-2 | cancelling an edit | 1. Locate "Task2" and click the "Edit" (pencil) icon.  2. Enter a new task name but do not save.  3. Click the "Cancel" button. | The task "Task2" should remain unchanged. | Pass |  |
| TC-DEL-1 | deleting a single task | 1. Locate "Task1" and click the "Delete" (trash can) icon.  2. Confirm the deletion. | The task "Task1" should be completely removed from the list. | Pass |  |
| TC-DEL-2 | "Clear List" functionality | 1, Click the "Clear List" button.  2. Confirm the action if a confirmation dialog appears | All tasks should be removed from the list, and the list should be empty. | Pass |  |
| TC-UI-1 | UI responsiveness | 1. Resize the browser window to different sizes (desktop, tablet, mobile). | The elements on the page (input field, buttons, task list) should adapt and remain readable without elements overlapping or going off-screen. | N/A |  |
| TC-UI-2 | Verify a task's UI elements | 1. Add a new task.  2. Inspect the newly added task. | Each task should display its name, an "Edit" button (pencil icon), and a "Delete" button (trash can icon). All elements should be clearly visible and clickable. | Pass |  |

GitHub Link for Project: