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Test Plan: Todo Application

This test plan outlines the testing strategy for the Todo application based on the provided business requirements.

1. Introduction

This document details the test cases designed to verify the functionality of the Todo application. The goal is to ensure that the application meets the specified requirements and performs as expected.

2. Scope

This test plan covers the core functionalities of the Todo application, including adding, editing, completing, and deleting tasks. It also covers accessibility through a standard URL.

3. Test Environment

Browsers: Chrome, Firefox, Edge (latest versions)

Operating Systems: Windows 10, macOS (latest versions)

Device: Desktop/Laptop

4. Test Cases

4.1 Test Case 1: Application Accessibility and Basic Functionality

Objective: Verify application accessibility via URL and basic page load.

Steps:

1. Open a web browser (Chrome, Firefox, or Edge).
2. Navigate to the URL: https://buwebdev.github.io/todo/
3. Verify the page loads successfully and displays the expected elements (title, input field, task list area).
4. Refresh the browser window.
5. Verify the page reloads correctly and retains any previously entered tasks (if applicable).

4.2 Test Case 2: Adding a New Task

Objective: Verify the functionality of adding a new task to the list.

Steps:

1. Navigate to the Todo application.
2. Enter a task description in the input field (e.g., "Grocery Shopping").
3. Press the "Enter" key or click the "Add" button (if present).
4. Verify that the new task appears in the task list.
5. Verify that the input field is cleared after adding the task.

4.3 Test Case 3: Completing a Task

Objective: Verify the functionality of marking a task as complete.

Steps:

1. Navigate to the Todo application.
2. Add a new task to the list.
3. Click the checkbox or toggle associated with the newly added task.
4. Verify that the task is visually marked as complete (e.g., strikethrough, change in color or styling).

4.4 Test Case 4: Editing an Existing Task

Objective: Verify the functionality of editing an existing task.

Steps:

1. Navigate to the Todo application.
2. Add a new task to the list (e.g., "Grocery Shopping").
3. Double-click on the task text or use a designated edit button/icon (if available).
4. Modify the task description (e.g., "Grocery Shopping - Milk and Eggs").
5. Press "Enter" or click a "Save" button (if available) to confirm the changes.
6. Verify that the task in the list reflects the updated description.

4.5 Test Case 5: Deleting a Task

Objective: Verify the functionality of deleting a task from the list.

Steps:

1. Navigate to the Todo application.
2. Add a new task to the list.
3. Click the delete button or icon associated with the task (or use any specified delete method).
4. Verify that the task is removed from the task list.

5. Pass/Fail Criteria

Each test case will be marked as "Pass" if all the steps are executed successfully and the expected results are observed. If any step fails or the expected result is not observed, the test case will be marked as "Fail."

6. Test Data

Various task descriptions will be used as test data, including empty strings, long strings, and special characters, to ensure robust functionality.

7. Entry/Exit Criteria

* Entry Criteria: Application deployed and accessible at the specified URL.
* Exit Criteria: All test cases executed and documented. Any failed test cases are reported and addressed.

This test plan provides a framework for testing the core features of the Todo application. Further testing may be required based on future feature additions or modifications.