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| **Project:** Module 4.2 Assignment |  |
| **Course:** CSD380-M320 DevOps |  |
| **Description:** Test Plan |  |
| **Date:** 2025/04/10 |  |

To complete the test case plan, fill out the information for Project, Course, Description and Date in the header below.

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For each test, the developer should: provide a test description, a test objective, the developer name and date tested. For each step, fill out the actions to be taken and describe the expected results, and indicate yes or no for each step depending upon the result. The peer tester should provide their name, date tested, indicate yes or no for each step depending upon the result, and a screenshot (thumbnail) of the result.

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| Test 1 | **Create New Todo Item** | | | |
|  | **Test Objective:** Verifies a user can create a new todo task item | **Developer: Seth Glover**  **Date tested:** 2025/04/10 | **Peer tester: Robert Minkler**  **Date tested:** 2025/04/10 | |
| **Step** | **Action** | **Expected results:** | **Developer pass/fail** | **Tester pass/fail**  **+ Screenshot** |
| 1 | Navigate to https://buwebdev.github.io/todo/ | Landing page loads successfully | yes | Yes |
| 2 | Enter "Buy groceries" into the new task input field | Input field accepts text | yes | Yes |
| 3 | Click the "Add" button | Task is added to the todo list | yes | Yes |
| 4 | View the newly added task | "Buy groceries" is displayed in the task list | yes | Yes |
| 5 | Refresh the page | The task remains in the list (if persistent) or clears if temporary | Yes (temporary) | Yes – Temporary |
| **Comments** | The create functionality works smoothly. Task input is intuitive and updates in real time. We may want to consider adding a confirmation message or brief animation upon successful addition.  Tester Comments:  The page loads as expected and the item entered was added to the list. The task list resets on reload, indicating that the list is temporary. There does not appear to be a procedure to enable a persistent list. | | | |

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| Test 2 | **View Todo Task List** | | | |
|  | **Test Objective:** | **Developer: Seth Glover**  **Date tested:** 2025/04/10 | **Peer tester: Robert Minkler**  **Date tested:** 2025/04/10 | |
| **Step** | **Action** | **Expected results:** | **Developer pass/fail** | **Tester pass/fail** |
| 1 | Navigate to https://buwebdev.github.io/todo/ | Todo list interface loads | yes | Yes |
| 2 | Observe the display area | Task list (if any) appears on screen | yes | Yes |
| 3 | Add multiple tasks | All added tasks appear in list format | yes | Yes |
| 4 | Scroll or resize browser | Task list layout adjusts responsively | yes | Yes |
| 5 | View on multiple browsers (Chrome, Firefox) | List displays consistently across platforms | yes | Yes |
| **Comments** | Task list rendering is responsive and reliable. Minor styling improvements could further enhance cross-device readability, especially on smaller mobile screens.  Tester Comments:  The page design responded to the window size of the browser appropriately. The page also appears the same across Firefox and Chrome browsers. Items are displayed in a consistent and easy to read manner. | | | |

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| Test 3 | **Edit Todo Item** | | | |
|  | **Test Objective:** | **Developer: Seth Glover**  **Date tested:** 2025/04/10 | **Peer tester: Robert Minkler**  **Date tested:** 2025/04/10 | |
| **Step** | **Action** | **Expected results:** | **Developer pass/fail** | **Tester pass/fail** |
| 1 | Select a task and click "Edit" | Edit form appears | yes | Yes – see comments |
| 2 | Clear the input field | Input becomes empty | yes | Yes |
| 3 | Attempt to submit empty form | System prevents submission | no | No |
| 4 | Enter "Buy snacks" and submit | Task updates to new value | yes | Yes – see notes |
| 5 | Confirm updated task is displayed | New text is visible in the list | yes | Yes |
| **Comments** | Edit validation does not block empty submissions. The user feedback could be improved with inline error messaging or highlighting. Overall, edit workflow is user-friendly and effective.  Tester Comments:  Step #1 assumes the page <https://buwebdev.github.io/todo/> has been loaded previously.  Step #3 failed to prevent an empty edit from completing.  Step #4 only passes if step 3 is skipped or steps 1-2 are repeated. The failure to block empty edits causes the edit dialogue box to close.  Editing items functions as expected. The only requirement failure is the restriction on entering a blank edit.  Step one in the test may need to include the URL to visit to make it complete and ensure we are testing the correct asset. | | | |

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| Test 4 | **Delete Todo Item** | | | |
|  | **Test Objective:** | **Developer: Seth Glover**  **Date tested:** 2025/04/10 | **Peer tester: Robert Minkler**  **Date tested:** 2025/04/10 | |
| **Step** | **Action** | **Expected results:** | **Developer pass/fail** | **Tester pass/fail** |
| 1 | Add task "Test Deletion" | Task appears in list | yes | Yes |
| 2 | Click the Trash Bin next to the task | Task is removed from the list | yes | Yes |
| 3 | Refresh the page | Deleted task does not reappear | yes | Yes – see note |
| 4 | Try deleting a non-existent task (e.g., quickly deleted) | No error, clean UI, unable to double delete | yes | Yes – see notes |
| 5 | Confirm UI updates without reload | Task disappears smoothly | yes | Yes |
| **Comments** | The delete functionality is efficient and reacts instantly. Adding a brief confirmation popup or undo option might prevent accidental deletions.  Tester Comments:  Adding and removing tasks acts as expected. Tasks are immediately removed from the list when the trash is clicked.  Step 3: reloading the page passes this test because the list does not persist. The deletion of initial tasks does not persist after a reload.  Step 4 directions are unclear. I attempted to click items quickly in an attempt to double click a single item, but was unable to due to the speed of the display refresh. | | | |

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| Test 5 | **404 Page Handling** | | | |
|  | **Test Objective:** | **Developer: Seth Glover**  **Date tested:** 2025/04/10 | **Peer tester: Robert Minkler**  **Date tested:** 2025/04/10 | |
| **Step** | **Action** | **Expected results:** | **Developer pass/fail** | **Tester pass/fail** |
| 1 | Navigate to <https://buwebdev.github.io/todo/invalidpage> | 404 page is displayed | yes | Yes |
| 2 | Verify custom design | Branded or styled 404 error is shown | yes | Yes |
| 3 | Check for helpful navigation (e.g., "Back to Home" link) | User can return to main page | no | No |
| 4 | Use browser back button | Returns to last valid page | yes | Yes and No – see note  A screenshot of a phone  AI-generated content may be incorrect. |
| 5 | Inspect page in dev tools | Custom HTML/CSS for 404 visible | yes | Yes |
| **Comments** | The 404 handling is not perfect. While there is a friendly message there is not a link back to the home page which would improve user experience. Consider adding a back to home page button on the 404 page to help users.  Tester Comments:  404 error handling works as expected, but the custom page displayed lacks useful features. It does not describe the error clearly or give options for a user to proceed.  Step 4 appears to be testing browser functionality rather than application functionality. The back button is dependent on the previous content and may not be active based upon how the page was accessed. | | | |