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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:**  **Date tested:** 2025/04/10 | **Peer tester:**  **Date tested:** <yyyy/mm/dd> | |
| **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/no> |
| 2 | Enter "Buy groceries" into the new task input field | Input field accepts text | yes | <yes/no> |
| 3 | Click the "Add" button | Task is added to the todo list | yes | <yes/no> |
| 4 | View the newly added task | "Buy groceries" is displayed in the task list | yes | <yes/no> |
| 5 | Refresh the page | The task remains in the list (if persistent) or clears if temporary | Yes (temporary) | <yes/no> |
| **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. | | | |

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| Test 2 | **View Todo Task List** | | | |
|  | **Test Objective:** | **Developer:**  **Date tested:** 2025/04/10 | **Peer tester:**  **Date tested:** <yyyy/mm/dd> | |
| **Step** | **Action** | **Expected results:** | **Developer pass/fail** | **Tester pass/fail** |
| 1 | Navigate to https://buwebdev.github.io/todo/ | Todo list interface loads | yes | <yes/no> |
| 2 | Observe the display area | Task list (if any) appears on screen | yes | <yes/no> |
| 3 | Add multiple tasks | All added tasks appear in list format | yes | <yes/no> |
| 4 | Scroll or resize browser | Task list layout adjusts responsively | yes | <yes/no> |
| 5 | View on multiple browsers (Chrome, Firefox) | List displays consistently across platforms | yes | <yes/no> |
| **Comments** | Task list rendering is responsive and reliable. Minor styling improvements could further enhance cross-device readability, especially on smaller mobile screens. | | | |

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| Test 3 | **Edit Todo Item** | | | |
|  | **Test Objective:** | **Developer:**  **Date tested:** 2025/04/10 | **Peer tester:**  **Date tested:** <yyyy/mm/dd> | |
| **Step** | **Action** | **Expected results:** | **Developer pass/fail** | **Tester pass/fail** |
| 1 | Select a task and click "Edit" | Edit form appears | yes | <yes/no> |
| 2 | Clear the input field | Input becomes empty | yes | <yes/no> |
| 3 | Attempt to submit empty form | System prevents submission | no | <yes/no> |
| 4 | Enter "Buy snacks" and submit | Task updates to new value | yes | <yes/no> |
| 5 | Confirm updated task is displayed | New text is visible in the list | yes | <yes/no> |
| **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. | | | |

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| Test 4 | **Delete Todo Item** | | | |
|  | **Test Objective:** | **Developer:**  **Date tested:** 2025/04/10 | **Peer tester:**  **Date tested:** <yyyy/mm/dd> | |
| **Step** | **Action** | **Expected results:** | **Developer pass/fail** | **Tester pass/fail** |
| 1 | Add task "Test Deletion" | Task appears in list | yes | <yes/no> |
| 2 | Click the Trash Bin next to the task | Task is removed from the list | yes | <yes/no> |
| 3 | Refresh the page | Deleted task does not reappear | yes | <yes/no> |
| 4 | Try deleting a non-existent task (e.g., quickly deleted) | No error, clean UI, unable to double delete | yes | <yes/no> |
| 5 | Confirm UI updates without reload | Task disappears smoothly | yes | <yes/no> |
| **Comments** | The delete functionality is efficient and reacts instantly. Adding a brief confirmation popup or undo option might prevent accidental deletions. | | | |

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| Test 5 | **404 Page Handling** | | | |
|  | **Test Objective:** | **Developer:**  **Date tested:** 2025/04/10 | **Peer tester:**  **Date tested:** <yyyy/mm/dd> | |
| **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/no> |
| 2 | Verify custom design | Branded or styled 404 error is shown | yes | <yes/no> |
| 3 | Check for helpful navigation (e.g., "Back to Home" link) | User can return to main page | no | <yes/no> |
| 4 | Use browser back button | Returns to last valid page | yes | <yes/no> |
| 5 | Inspect page in dev tools | Custom HTML/CSS for 404 visible | yes | <yes/no> |
| **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. | | | |