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| **Project:** Module 4.2 - Todo Application Testing |  |
| **Course:** CSD 380 |  |
| **Description:** Testing core functionalities of the Todo application based on the business requirements. |  |
| **Date:** 2025/01/26 |  |

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

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| Test 1 | **View Todo Task List** | | | |
|  | **Test Objective:** Verify that users can view a list of Todo tasks | **Developer:** Gerald Oden  **Date tested:** 2025/01/26 | **Peer tester: Kenneth Smith**  **Date tested:** 2025-01-31 | |
| **Step** | **Action** | **Expected results:** | **Developer pass/fail** | **Tester pass/fail**  **+ Screenshot** |
| 1 | Navigate to <https://buwebdev.github.io/todo/> | The landing page loads without errors, displaying the todo task list. | Yes | YES  A screenshot of a phone  AI-generated content may be incorrect. |
| 2 | Confirm that the task list contains all existing tasks. | The task list displays correct and complete data. | Yes | YES  A screenshot of a phone  AI-generated content may be incorrect. |
| 3 | Refresh the page. | The task list reloads and retains its state. | Yes | YES  A screenshot of a phone  AI-generated content may be incorrect. |
| **Comments** | The task list functionality ensures that users can access tasks seamlessly. Consider optimizing the layout for larger Todo lists. | | | |

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| Test 2 | **Create New Todo Task** | | | |
|  | **Test Objective:** Verify that users can create a new task successfully. | **Developer:** Gerald Oden  **Date tested:** 2025/01/26 | **Peer tester: Kenneth Smith**  **Date tested:** 2025-01-31 | |
| **Step** | **Action** | **Expected results:** | **Developer pass/fail** | **Tester pass/fail** |
| 1 | Navigate to https://buwebdev.github.io/todo/ | The application loads without errors. | Yes | YES  A screenshot of a phone  AI-generated content may be incorrect. |
| 2 | Enter a valid todo item in the task creation field and click the submit button. | The new task appears in the task list. | Yes | YES  A screenshot of a phone  AI-generated content may be incorrect. |
| 3 | Verify the persistence by refreshing the page. | The new task remains visible after the page reloads. | No | NO  A screenshot of a phone  AI-generated content may be incorrect. |
| 4 | Attempt to submit an empty todo item. | The system prevents submission and displays an error message. | Yes | YES  A screenshot of a task  AI-generated content may be incorrect. |
| **Comments** | Ensure form validation is robust to handle edge cases like whitespace inputs. | | | |

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| Test 3 | **Edit an Existing Todo Task** | | | |
|  | **Test Objective:** Verify that users can edit an existing task. | **Developer:** Gerald Oden  **Date tested:** 2025/01/26 | **Peer tester: Kenneth Smith**  **Date tested:** 2025-01-31 | |
| **Step** | **Action** | **Expected results:** | **Developer pass/fail** | **Tester pass/fail** |
| 1 | Select an existing task from the list and click the edit button. | The task details load into an editable form. | Yes | YESA screenshot of a computer  AI-generated content may be incorrect. |
| 2 | Modify the task content and save changes. | The task list updates to reflect the edited content. | Yes | YES  A white background with black text  AI-generated content may be incorrect. |
| 3 | Refresh the page. | The edited task persists after reloading. | No | NO  A white background with black text  AI-generated content may be incorrect. |
| 4 | Attempt to save an empty edit. | The system prevents the update and displays an error message. | No | NO  A white background with black text  AI-generated content may be incorrect. |
| **Comments** | Editing functionality should ensure data integrity and validate changes. | | | |

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| Test 4 | **Delete a Todo Task** | | | |
|  | **Test Objective:** Verify that users can delete a task. | **Developer:** Gerald Oden  **Date tested:** 2025/01/26 | **Peer tester: Kenneth Smith**  **Date tested:** 2025-01-31 | |
| **Step** | **Action** | **Expected results:** | **Developer pass/fail** | **Tester pass/fail** |
| 1 | Navigate to the task list and select a task to delete. | The task is removed from the list. | Yes | YES  A screenshot of a computer  AI-generated content may be incorrect. |
| 2 | Refresh the page. | The deleted task does not reappear. | No | NO  A screenshot of a phone  AI-generated content may be incorrect. |
| 3 | Attempt to delete a task and immediately refresh during the operation. | The task remains deleted after the operation completes. | No | NO  A white background with black text  AI-generated content may be incorrect. |
| **Comments** | Test edge cases, such as simultaneous deletions or network interruptions during deletion. | | | |

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| Test 5 | **Invalid URL Handling** | | | |
|  | **Test Objective:** Verify that the system displays a custom 404 error page for invalid URLs. | **Developer:** Gerald Oden  **Date tested:** 2025/01/26 | **Peer tester: Kenneth Smith**  **Date tested:** 2025-01-31 | |
| **Step** | **Action** | **Expected results:** | **Developer pass/fail** | **Tester pass/fail** |
| 1 | Navigate to an invalid URL, such as <https://buwebdev.github.io/todo/emptypage> | The application displays a custom 404 error page. | Yes | YES  A screenshot of a computer  AI-generated content may be incorrect. |
| 2 | Verify that the custom page includes navigation links to return to the main site. | Links are functional and redirect users to the homepage. | No | NO  A screenshot of a computer  AI-generated content may be incorrect. |
| **Comments** | The custom error page enhances user experience by providing clear options to return to normal workflows. | | | |