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| **Project:** Todo Application |
| **Course:** CSD380-M320 DevOps |
| **Description:** Module 4 Assignment 2: Test Plan of 5 Functional/business Requirements |
| **Date:** April 4, 2025 |

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**Business/Functional Requirements**

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| **Req#** | **Ranking** | **Requirement** |
| 1 | 2 | View a list of todo task items |
| 2 | 1 | Create a new todo task item |
| 3 | 4 | Edit a todo task item |
| 4 | 3 | Delete a todo task item |
| 5 | 5 | For invalid URLs, provide users with a custom 404 error page |
| 6 | 6 | Prevent users from submitting a task form with without entering a todo item |
| 7 | 7 | Prevent users from submitting the edit form without entering a todo item |
| 8 | 8 | Provide users with a view for mobile devices |
| 9 | 9 | Provide users with a view for tablet devices |
| 10 | 1 | Allow users to visit the website through <https://buwebdev.github.io/todo/> |

**Draft Tests Plans**

**Precondition:** User is on <https://buwebdev.github.io/todo/>

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| **Requirement #2: Test Plan**  1. Type a new task item into the text field of the task form.  2. Verify that the “add task” button becomes enabled.  3. Click the “add task” button.  4. Confirm that the task item correctly appears in the Todo list.  5. Repeat steps 1-4 two more times using task items of different lengths. | **Requirement #3: Test Plan**  1. Ensure at least one task item exists in the Todo list.  2. Click the edit icon next to a task item.  3. Modify the task text in the input field of the edit form.  4. Click the “Save” button.  5. Confirm that the updated text is correctly displayed in the task list.  6. Repeat steps 2-5 two more times using different edits (shorter text, special characters, longer text, etc.). | **Requirement #4: Test Plan**  1. Ensure at least one task item exists in the Todo list.  2. Click the “Delete” (trash) icon next to a task item.  3. Verify that the selected task item is removed from the Todo list. |
| **Requirement #6: Test Plan**  1. Ensure the task input field of the task form is empty.  2. Attempt to click the “Add Task” button.  3. Verify that the button is disabled and that no task is submitted.  4. Try entering only whitespace (e.g., spaces or tabs) into the task input field and attempt to submit.  5. Verify that the whitespace only task is not submitted. | **Requirement #7: Test Plan**  1. Ensure at least one task item exists in the Todo list.  2. Click the edit icon next to a task item.  3. Clear the task text field completely.  4. Attempt to click the “Save” button.  5. Verify that the update is not accepted, and the task remains unchanged.  6. Repeat steps 2-5, but this time enter only whitespace (e.g., spaces or tabs). |  |

**Test Cases/Functional Tests**

**Precondition for All Test Cases:** User is on <https://buwebdev.github.io/todo/>

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| Test 1 | **Business Requirement #2** | | | |
|  | **Test Objective:** Verifies the creation of a new Todo task item to the Todo list. | **Developer:** Noel Miranda  **Date tested:** 2025/04/04 | **Peer tester: Kevin Ramirez**  **Date tested: 4/13/2025** | |
| **Step** | **Action** | **Expected results:** | **Developer pass/fail** | **Tester pass/fail**  **+ Screenshot** |
| 1 | Type a new task item into the text field of the task form. | The “add task” button becomes enabled. | pass | A screenshot of a computer  Description automatically generated  Pass |
| 2 | Click the “add task” button. | The task item correctly appears in the Todo list without errors. | pass | A screenshot of a phone  Description automatically generated  Pass |
| 3 | Repeat steps 1-2 two more times using task items of different lengths. | The three new task items of differing lengths should correctly appear in the Todo list without errors. | fail | A screenshot of a phone  Description automatically generated  Fail |
| **Comments** | The application correctly adds new Todo task items to the Todo list. However, I noticed there is a minimum character requirement of four characters which should be made clear to the user if that is the intention to prevent confusion. Also, if a Todo item is too long, it extends outside the Todo list, making the display look unpleasant. | | | |

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| Test 2 | **Business Requirement #3** | | | |
|  | **Test Objective:** Verifies proper editing of a current Todo task item. | **Developer:** Noel Miranda  **Date tested:** 2025/04/04 | **Peer tester: Kevin Ramirez**  **Date tested: 4/13/2025** | |
| **Step** | **Action** | **Expected results:** | **Developer pass/fail** | **Tester pass/fail**  **+ Screenshot** |
| 1 | Ensure at least one task item exists in the Todo list. Click the edit icon next to a task item. | The edit form appears. | pass | A screenshot of a task form  Description automatically generated  Pass |
|  |  |  |  |  |
| 2 | Modify the task text in the input field of the edit form. Click the “Save” button. | The updated text is correctly displayed in the task list without errors. | pass | A white background with black text  Description automatically generated  Pass |
| 3 | Repeat steps 1-2 two more times using different edits (shorter text, special characters, longer text, etc.). | The variety of edits of the task item should have correctly been displayed in the Todo list without errors. | fail | A screenshot of a phone  Description automatically generated  Pass |
| **Comments** | The editing feature works perfectly, but it does allow one character length Todo items which were not allowed in the task form (during test 1). Business requirements should be revisited or clarified to verify consistency regarding constraints. This feature also allows very long Todo items which come out the Todo list border. | | | |

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| Test 3 | **Business Requirement #4** | | | |
|  | **Test Objective:** Verifies the deletion of a Todo task item. | **Developer:** Noel Miranda  **Date tested:** 2025/04/04 | **Peer tester: Kevin Ramirez**  **Date tested: 4/13/2025** | |
| **Step** | **Action** | **Expected results:** | **Developer pass/fail** | **Tester pass/fail**  **+ Screenshot** |
| 1 | Ensure at least one task item exists in the Todo list. Click the “Delete” (trash) icon next to a task item. | The selected task item is removed from the Todo list. | pass | A screenshot of a task form  Description automatically generated  Pass |
| **Comments** | The deletion feature works perfectly. No errors found. However, I would suggest prompting the user to confirm if they are sure they want to delete a Todo item before proceeding. This could lead to unintentional mistakes, thus impacting the user experience. | | | |

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| Test 4 | **Business Requirement #6** | | | |
|  | **Test Objective:** Verifies that the Todo application prevents users from submitting a task form without entering a Todo item. | **Developer:** Noel Miranda  **Date tested:** 2025/04/04 | **Peer tester: Kevin Ramirez**  **Date tested: 4/13/2025** | |
| **Step** | **Action** | **Expected results:** | **Developer pass/fail** | **Tester pass/fail**  **+ Screenshot** |
| 1 | Ensure the task input field of the task form is empty. Attempt to click the “Add Task” button. | The “Add Task” button should be disabled, and no task should have been submitted (displaying in the list). | pass | A screenshot of a phone  Description automatically generated  Pass |
| 2 | Try entering only whitespace (e.g., spaces or tabs) into the task input field and attempt to submit. | The “Add Task” button should still be disabled, and no whitespace task should have been submitted (displaying in the list). | fail | A screenshot of a phone  Description automatically generated  Fail |
| **Comments** | The application does prevent users from submitting a task form without entering a Todo item (empty field). However, if a user were to add four white spaces or more, the task form does allow a user to submit the form. As a result, the whitespace only Todo item gets added to the Todo list. The inclusion of whitespace should be checked when verifying for an empty field in the task form to prevent them from being added to the list. | | | |

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| Test 5 | **Business Requirement #7** | | | |
|  | **Test Objective:** Verifies that the Todo application prevents users from submitting the edit form without entering a Todo item. | **Developer:** Noel Miranda  **Date tested:** 2025/04/04 | **Peer tester: Kevin Ramirez**  **Date tested: 4/13/2025** | |
| **Step** | **Action** | **Expected results:** | **Developer pass/fail** | **Tester pass/fail**  **+ Screenshot** |
| 1 | Ensure at least one task item exists in the Todo list. Click the edit icon next to a task item. | The edit form appears. | pass | A screenshot of a task form  Description automatically generated  Pass |
| 2 | Clear the task text field completely. Attempt to click the “Save” button. | The edit should not be accepted, and the task item should remain unchanged. | fail | A screenshot of a task form  Description automatically generated  Fail |
| 3 | Repeat steps 1-2, but this time enter only whitespace (e.g., spaces or tabs). | The edit should still not be accepted, and the task item should remain unchanged. | fail | A screenshot of a task form  Description automatically generated  Fail |
| **Comments** | This functional requirement is not met. The edit form appears seamlessly upon request, but it has no constraints or verifications at all. As a result, a Todo item could be cleared or converted to a whitespace item only and added back to the Todo list. To meet the functional requirement, implementing an error message that guides the user on how to properly edit a task based on our business requirements and including a check for the save button to be disabled upon such conditions would help tremendously. | | | |