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| --- | --- | --- | --- | --- | --- |
| **Test Case**  **ID** | **Description** | **Input Data** | **Expected Outcome** | **Actual Outcome** | **Status** |
| TC  01 | Valid task scheduling | "Clean gutters"; Due: "05-12-2025"; Frequency: "Monthly" | Task should be saved successfully. | Task saved successfully | Pass |
| TC  02 | Invalid date format | "Check heaters"; Due: "18/10/2025"; Frequency: "Monthly" | Show error message: "Invalid date format." | Did show error message | Pass |
| TC  03 | Empty description | Description: ""; Due: "10-20-2025"; Frequency: "Quarterly" | Show error message: "Please fill in all fields." | Did show error message | Pass |
| TC  04 | Empty due date | Description: "Clean air conditioner"; Due: ""; Frequency: "Monthly" | Show error message: "Please fill in all fields." | Dis show error message | Pass |
| TC  05 | Task scheduling without frequency | Description: "Clean Out Hot Water Heater"; Due: "11-11-2025"; Frequency: "" | Task should be saved successfully with default frequency. | Task saved successfully | Pass |
| TC  06 | Multiple tasks and viewing | Add multiple tasks and then click "View Scheduled Tasks". | All tasks should be displayed correctly in the list. | All tasks displayed correctly | Pass |
| TC  07 | Delete a task | Select the first task and click "Delete Task". | Confirm task deletion from the list. | Task deleted successfully | Pass |
| TC  08 | Mark a task as complete | Select the first task and click "Mark as Complete". | Confirm task is marked as complete and removed from the list. | Task marked as complete | Pass |
| TC  09 | Help documentation access | Click "Help" button. | Help information should be displayed correctly. | Help displayed correctly | Pass |
| TC  10 | Exit application confirmation | Click "Exit". | Confirm dialog should appear, allowing user to exit. | Dialog appeared correctly | Pass |

Validation Testing for OB Home Maintenance Scheduler

**1. Test Data Development**

To fully validate the Home Maintenance Scheduler application, I have developed the following sets of test data. The aim is to cover various scenarios including valid inputs, invalid inputs, and boundary conditions.

**2. Test Results Overview**

The following outcomes summarize the results of each test case:

TC-001: Passed - The task was saved successfully with valid input.

TC-002: Passed - The application correctly identified the invalid due date format and displayed the appropriate error message.

TC-003: Passed - Proper error message shown when the description was empty.

TC-004: Passed - Correctly alerted the user when the due date was empty.

TC-005: Passed - Task saved successfully with the default frequency.

TC-006: Passed - All entered tasks displayed accurately in the scheduled tasks window.

TC-007: Passed - Selected task was deleted successfully.

TC-008: Passed - Task marked as complete and removed from the list.

TC-009: Passed - Help documentation displayed without issues.

TC-010: Passed - Exit confirmation dialog appeared as expected.

**Things I will add in future:**

I will add a confirmation prompt when deleting tasks. I will also add a dropdown for task scheduling. The drop down will be loaded with preset tasks that can be utilized or add there own tasks just to name a few.

**3. Screenshots of Successful Test Data**

Below are screenshots of the application functioning as expected with valid test data:

TC 01Valid task scheduling

A computer screen shot of a computer error

AI-generated content may be incorrect.

TC 02 Invalid date format

A screenshot of a computer error message

AI-generated content may be incorrect.

TC 03 Empty description

A computer error message on a blue background

AI-generated content may be incorrect.

TC 04 Empty due date

A screen shot of a computer error

AI-generated content may be incorrect.

TC 05 Task scheduling without frequency ( It has Auto preset Frequency set for monthly)

A computer screen with a message

AI-generated content may be incorrect.

TC 06 Multiple tasks and viewing

A screenshot of a computer

AI-generated content may be incorrect.

TC 07 Delete a task

A computer screen shot of a message

AI-generated content may be incorrect.

TC 08 Mark a task as complete

A screenshot of a computer error

AI-generated content may be incorrect.

TC 09 Help documentation access

A blue screen with white text

AI-generated content may be incorrect.

TC 10 Exit application confirmation

A screenshot of a computer

AI-generated content may be incorrect.

Conclusion

The Home Maintenance Scheduler application has successfully passed all validation tests. Further development and testing of that development will need to be done, but I really like where it is at this time. Overall, I am verry happy with this stage of the application.