91896 - Testing Document

**Unit Testing**

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| format\_dict\_single() and format\_dict\_all() | | | | | | |
| Date | What is being tested | Test Type | Test Value | Expected Result | Actual Result | How it was fixed |
| 19/6/25 | Format Dictionary Function | Expected | task\_dictionary | Task Id’s to be printed with all their details formatted in a readable and presentable layout | Task Dictionary printed as expected | No Changes needed |
| 28/7/25 | Error occurred with testing saving | Retesting code for documentation |  |  |  | Retesting code for documentation |
| 28/7/25 | Format Dictionary | Expected | Task\_dictionary | Task Dictionary Outputted into window with appropriate formatting | Task Dictionary Outputted into window with proper formattingA screenshot of a computer  AI-generated content may be incorrect. | No Changes |
| 28/7/25 | Format Dictionary | Expected | Task\_dictionary, T1 | Task T1 formatted appropriately and outputted into a window | Task T1 formatted appropriately and outputted into a window A screenshot of a computer  AI-generated content may be incorrect. |  |
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| search\_dict() | | | | | | |
| Date | What is being tested | Test Type | Test Value | Expected Result | Actual Result | How it was fixed |
| 19/6/25 | Search Dictionary Function | Expected | Task\_dictionary, “T1” | The function returns the details of task “T1” | The function returns the details, but no formatting has been applied | A function should be made for single dictionary formatting where a nested system is not needed |
| 23/6/25 | Search Dictionary Function | Expected | Team\_members\_dictionary, “JSM” | The function should return a formatted string containing John Smith’s info | Nothing was returned | Formatting function was missing a return variable, issue patched by returning the formatted message. This now works as expected |
| 22/7/25 | Search Function Changed |  |  |  |  | Search Function changed from enter box to choice box to minimise error from user input and reduce disruption |
| 22/7/25 | Search Dictionary Function | Expected | Task\_dictionary, “T3” | The function should return a formatted version of the T3 Task | T3 task and details were returned as intended | No changes needed |
| 22/7/25 | Search Dictionary Function | Expected | Team\_members\_dictionary, “JSM” | The function should return the formatted details of John Smith | John Smiths details were returned with the assigned task list formatted as well. | No changes needed |

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| Int\_validation() | | | | | | |
| Date | What is being tested | Test Type | Test Value | Expected Result | Actual Result | How it was fixed |
| 28/7/25 | Testing rewritten due to testing documentation saving issues |  |  |  |  | Retested function |
| 28/7/25 | Int Validation | Boundary | 1 | True output from function, resulting in successful task update / addition (and temporary confirmation) | True, function returned a successful update.  A screenshot of a white background  AI-generated content may be incorrect.A screenshot of a computer  AI-generated content may be incorrect. | No Changes Needed |
| 28/7/25 | Int Validation | Boundary | 2 | True output from function, resulting in successful task update / addition (and temporary confirmation) | A screenshot of a computer screen  AI-generated content may be incorrect.A screenshot of a computer  AI-generated content may be incorrect.A screenshot of a computer  AI-generated content may be incorrect. | No Changes Needed |
| 28/7/25 | Int Validation | Boundary | 3 | True output from function, resulting in successful task update / addition (and temporary confirmation) | A screenshot of a white background  AI-generated content may be incorrect.A screenshot of a computer  AI-generated content may be incorrect. | No Changes Needed |
| 28/7/25 | Int Validation | Boundary | 4 | Error Window addressing the input being outside of the bounds of 1 to 3 | A screenshot of a computer error  AI-generated content may be incorrect.A screenshot of a computer  AI-generated content may be incorrect. | No Changes Needed |
| 28/7/25 | Int Validation | Boundary | 0 | Error Window addressing the input being outside of the bounds of 1 to 3 | A screenshot of a computer error  AI-generated content may be incorrect. | No Changes Needed |
| 28/7/25 | Int Validation | Invalid | “One” – (Any Non-int) | Error Window addressing the input not being an integer | A screenshot of a computer error  AI-generated content may be incorrect. | No Changes Needed |

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| Task\_validation() | | | | | | |
| Date | What is being tested | Test Type | Test Value | Expected Result | Actual Result | How it was fixed |
| 28/7/25 | Testing rewritten due to testing documentation saving issues |  |  |  |  | Retested function |
| 29/7/25 | Title Field String Input | Expected | Title changed on task T1 to “Title” | Title Changed with no errors | Title Changed to “Title”A white background with black text  AI-generated content may be incorrect. | No Changes Needed |
| 29/7/25 | Title Field String Input | N/A | N/A | N/A | No Additional testing due to the nature of a string title being open ended | N/A |
| 29/7/25 | Description Field String Input | Expected | Description Changed on task T3 to “Testing” | Description changed with no errors | Description changed to “Testing”A white screen with black text  AI-generated content may be incorrect. | No Changes Needed |
| 29/7/25 | Description Field String Input | N/A | N/A | N/A | No Additional testing due to the nature of a string description being open ended | N/A |
| 29/7/25 | Assignee Field String Id Input | Expected | Assignee Field changed to “None” from “JSM” in T1 | Assignee changed with no errors | Assignee field changed successfullyA screenshot of a white background  AI-generated content may be incorrect. | No Changes Needed |
| 29/7/25 | Assignee Field String Id Input | Expected | Assignee Field changed to “BDI” from “None” in T3 | Assignee changed with no errors | Missed index error prevention when adding recent task management in members assigned tasks | Added if loop to check if current detail wasn’t “none” before indexing team\_members\_dictionaryA screen shot of a computer code  AI-generated content may be incorrect. |
| 29/7/25 | Assignee Field String Id Input | Expected | Assignee Field changed to “BDI” from “None” in T3 | Assignee changed with no errors | Assignee successfully changed from “None” to “BDI” in T3A white background with black text  AI-generated content may be incorrect. | No Changes Needed |
| 29/7/25 | Assignee Field String Id Input | Invalid | Assignee Field changed from “JLO” to “stick” in T4 | Assignee field error raised and not accepted for successful creation / modification | Assignee field not accepted as id is invalidA close-up of a text  AI-generated content may be incorrect. | No Changes Needed |
| 29/7/25 | Assignee Field String Id Input | No further testing required as invalid case works for all inputs not matching the given ID’s | N/A | N/A | N/A | N/A |
| 29/7/25 | Priority Field Int Input | Boundary | Priority changed from 1 to 3 in T5 | Priority changed successfully without errors | Priority changed successfully | No Changes Needed |
| 29/7/25 | Priority Field Int Input | Boundary | Priority changed from 3 to 4 in T5 | Error raised addressing the value as being out of the bounds 1 to 3 | Priority input raised error and not accepted as a valid changeBlack text on a white background  AI-generated content may be incorrect. | No Changes needed |
| 29/7/25 | Priority Field Int Input | Invalid | Priority changed from 3 to seven | Error raised addressing the value as not being an integer | Priority input raised error and not accepted as a valid change A black text on a white background  AI-generated content may be incorrect. | No Changes needed |
| 29/7/25 | Status Field String Input | Expected | Status changed from In Progress to Blocked in T4 | Status change successful and updated | Status changed successfully and updated accordingly | No Changes Needed |
| 29/7/25 | Status Field String Input | Invalid | Status changed from Not Started to Do Not Disturb in T3 | Status input raised error regarding the value not being in the list of accepted values | Status error message shown with list of accepted optionsA white background with black text  AI-generated content may be incorrect. | No Changes Needed |
| 30/7/25 | Title Field String Input | Invalid | Title field not filled in | Error addressing the missing field | Error returned addressing the title being missingA close-up of a white background  AI-generated content may be incorrect. | No Changes Needed |
| 30/7/25 | Description Field String Input | Invalid | Description field not filled in | Error addressing the missing field | Error returned addressing the description being missing | No Changes Needed |
| 30/7/25 | Assignee Field String Id Input | Expected | Assignee field not filled in | Assignee field replaced with “None” placeholder | Assignee field replaced with “None” placeholder | No Changes needed |
| 30/7/25 | Priority Field Int Input | Invalid | Priority field not filled in | Error addressing the missing field | Error returned addressing the priority being missing | No Changes Needed |
| 30/7/25 | Status Field String Input | Invalid | Status field not filled in | Error addressing the missing field | Error returned addressing the status being missing | No Changes Needed |

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| Add\_task() | | | | | | |
| Date | What is being tested | Test Type | Test Value | Expected Result | Actual Result | How it was fixed |
| 28/7/25 | Testing rewritten due to testing documentation saving issues |  |  |  |  | Retested function |
| 29/7/25 | Task being created with a valid case | Expected | “Test”, “Test task”, “None”, “1”, “Not Started” | Task Created with the fields: “Test”, “Test task”, “None”, “1”, “Not Started” | Task Created SuccessfullyA screenshot of a test  AI-generated content may be incorrect. | No Changes Needed |
| 29/7/25 | Task being held without submitting due to an invalid field | Invalid | “Test”, “Test task”,  “JSN”,  “1”,  “Not Started” | Task values returned to user to fix mistakes | A close-up of a computer screen  AI-generated content may be incorrect.A screenshot of a task box  AI-generated content may be incorrect. | No Changes Needed |
| 29/7/25 | No Further testing required, as task\_validation handles rejecting invalid inputs and add\_task returning values until all are fulfilled |  |  |  |  | No Changes Needed |

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| Edit\_task() | | | | | | |
| Date | What is being tested | Test Type | Test Value | Expected Result | Actual Result | How it was fixed |
| 28/7/25 | Testing redone due to testing documentation saving issues |  |  |  |  | Retested function |
| 29/7/25 | Edit Task Field changing | Expected | Changing Priority from 2 to 3 in T4 | Successful change | Change Added SuccessfullyA close-up of a white background  AI-generated content may be incorrect. | No Changes Needed |
| 29/7/25 | Edit Task Field Changing | Invalid | Changing Priority from 3 to 4 in T4 | Error addressing the input 4 being invalid(out of bounds) | Error Received and change not acceptedA close up of black text  AI-generated content may be incorrect.A close-up of a white background  AI-generated content may be incorrect. |  |

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| Generate\_report() | | | | | | |
| Date | What is being tested | Test Type | Test Value | Expected Result | Actual Result | How it was fixed |
| 28/7/25 | Testing redone due to testing documentation saving issues |  |  |  |  | Retested function |
| 29/7/25 | Generate report function executing | Expected | Generate a report | Report outputted and formatted to a window | Report outputted and formatted to a window | No Changes Needed |
| 29/7/25 | No Further testing required as report function is single use and doesn’t request inputs |  |  |  |  | No Changes Needed |

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| Main() | | | | | | |
| Date | What is being tested | Test Type | Test Value | Expected Result | Actual Result | How it was fixed |
| 28/7/25 | Testing redone due to testing documentation saving issues |  |  |  |  | Retested function |
| 29/7/25 | Main Menu Buttons Function | Expected | Open Generate Report | Generate Report function is executed | Generate Report function is executed | No Changes Needed |
| 31/7/25 | Main Menu Buttons Function | Expected | Close Main Menu | Main Menu closed and program stopped | Main Menu closed and program stopped | No Changes Needed |

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| User Testing | | | | | | |
| Date | What is being tested | Test Type | Test Value | Expected Result | Actual Result | How it was fixed |
| 30/7/25 | Whole Program | Vaughan |  |  | Feedback:   * Put a space between the lines in the Task Report msgbox (e.g. ---hello----   Banana : 1  Apple : 5 etc…)   * Should the team member dict be called “Team Member Dictionary” * It would be nice for you to state the obvious fact that the ‘Cancel’ button in the Search choicebox returns the user to the main menu as it is VERY hard to tell this * P.s. having “Search Complete” is unnecessary * Get better * Have your code check from spacing before the assignee/status inputs areas * yes | Space added to generate report function, title of Team Member Dictionary edited, Cancel is obvious and therefore not a necessary change, Search Complete message is a QOL feature, not a required specification, .strip added to assignee checking but status’ may contain spaces so adding validation for that field is excessive and uncommon for the users input given the use of a capital letter, yes. |
| 1/8/25 | Whole Program | Ben |  |  | Found error with adding task id to assignees assigned tasks upon creation | Added memory variable to remember when an assignee is found to keep the assignee = true statement and then refined the team\_member\_dictionary accessing index.A computer screen shot of text  AI-generated content may be incorrect.A black screen with white text  AI-generated content may be incorrect. |

**System Testing**

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| Whole Program | | | | | | |
| Date | What is being tested | Test Type | Test Value | Expected Result | Actual Result | How it was fixed |
| 30/7/25 | Search Function running from main menu | Expected | Search for a task | Task returned upon completion then redirected back to main menu | Search value returned and then redirected to main menu | No Changes Needed |
| 31/7/25 | Search Function running from main menu | Expected | Search for a member | Member returned to user upon completion then redirected back to main menu | Search value returned and then redirecrted to main menu | No Changes Needed |
| 31/7/25 | Add Task running from main menu | Expected | Adding a task | Add\_task function running task\_validation and int\_validation, returning no errors upon a valid task and returning the task to the dictionary before redirecting back to main menu | Add\_task, task\_validaition, int\_validation all working together as expected | No Changes Needed |
| 31/7/25 | Edit Task running from main menu | Expected | Editing a task’s details | Edit\_task, task\_validation, and int\_validation if needed work in unison, producing no errors and updating details before returning to main menu | Edit\_task, task\_validation, and int\_validation working in unison, no errors and returned to main menu | No Changes Needed |
| 31/7/25 | View All Tasks running from main menu | Expected | Showing all tasks in task\_dictionary | Tasks shown and then redirected to main menu | Tasks shown and then redirected to main menu | No Changes Needed |
| 31/7/25 | View All Members running from main menu | Expected | Showing all members in team\_members\_dictionary | Members shown and then redirected to main menu | Members shown and then redirected to main menu | No Changes Needed |
| 31/7/25 | Generate Report running from main menu | Expected | Generating a report | Report generated and shown then redirected to main menu | Report generated and shown then redirected to main menu | No Changes Needed |
| 31/7/25 | Search Function running from main menu | Expected | Cancelling Task Search Function | User redirected back to main menu | User redirected back to main menu | No Changes Needed |
| 31/7/25 | Search Function running from main menu | Expected | Cancelling Member Search Function | User redirected back to main menu | User redirected back to main menu | No Changes Needed |
| 31/7/25 | Add Task running from main menu | Expected | Cancelling Add Task Function | User redirected back to main menu | User redirected back to main menu | No Changes Needed |
| 31/7/25 | Edit Task running from main menu | Expected | Cancelling Edit Task Function | User redirected back to main menu | User redirected back to main menu | No Changes Needed |