91896 - Testing Document

**Unit Testing**

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| User\_menu | | | | | | |
| Date | What is being tested | Test Type | Test Value | Expected Result | Actual Result | How it was fixed |
| 17/6 | The Menu runs properly, that all the buttons appear with the welcome message | Expected | Pressing the start button (nothing) | That the menu should run properly, with a welcome message | No buttons appeared. | I wrote the wrong list in the code, so it looped through an empty list instead of looping through the possible options the user can choose, so no options were added to the menu. Changing the list allowed it to loop properly and display the buttons on the menu |
| 17/6 | The Menu runs properly, that all the buttons appear with the welcome message | Expected | Pressing the start button (nothing) | That the menu should run properly, with a welcome message | The buttons appear and the menu displays properly | N/A |
| 17/6 | That the Exit button works properly, and that the program will exit even if the user presses the ‘x’ button or the exit button | Expected | Pressing the Exit button | The program should close without re-appearing | The program exited without re-opening, and the code completely stopped. | N/A |
| Pressing the ‘X’ button |
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| Integer\_validation | | | | | | |
| Date | What is being tested | Test Type | Test Value | Expected Result | Actual Result | How it was fixed |
| 18/6 | Seeing if my Integer Validation Function works, seeing if it returns the correct values. It should check if the value is an integer and if it between a certain range. | Valid | I input the number 2 | ‘True’ – Saying that the input value works (Is an integer) with the function | ‘True’ | N/A |
| Valid | I input the number 1 | ‘True’ – Saying that the input value works (Is an integer) with the function | It returned “Please input a number between 1 and 3!” | Added a +1 and -1 when comparing because the less than or equal to does not work. |
| Invalid | I type in ‘hi’ | Should return ’Please input a number!’ | It caught the error and gave the response “Please input a number!” | N/A |
| Boundary | I typed in “4”, when the expected range is between 1 and 3 | The program should return “Please input a number between 1 and 3!” | It returned “Please input a number between 1 and 3!” | N/A |
| I typed in “0”, when the expected range is between 1 and 3 | The program should return “Please input a number between 1 and 3!” | It returned “Please input a number between 1 and 3!” | N/A |
| 18/6 | Seeing if my Integer Validation Function works, with the correct range (after the fix). | Valid | I input the number 1 | ‘True’ – Saying that the input value works (Is an integer) with the function | ‘True’ – Saying that the input value works (Is an integer) with the function | N/A |
| I input the number 2 |
| I input the number 3 |
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| Adding Function: Create\_new\_task, input\_multiple\_values, check\_multiple\_input\_values, generate\_task\_id | | | | | | |
| Date | What is being tested | Test Type | Test Value | Expected Result | Actual Result | How it was fixed |
| 23/6 | Seeing if the program works if:  - I leave some values blank  - I leave all of them blank  - I fill it all in correctly.  Without breaking or making the user stuck on one screen. Or allowing the user to input empty values into the system | Invalid |  | The program should return an error, Saying “You need to fill in all values!” and returning to the input page again | Window came up with the text “Error! You need to fill in all values!” | N/A |
| Invalid |  | The program should return an error, saying “You need to fill in all values!” then returning to the input page again | Window came up with the text “Error! You need to fill in all values!” | N/A |
| Expected |  | The program should create the task and output it in the terminal (proper display hasn’t been created yet), with a new generated task. (See row below) | Output all dictionaries, With the updated one. The new task\_ID was invalid and overwrote an old task. | Adding a +1 to the generate\_task\_id because the list indexes start from 0 |
| 23/6 | Seeing if the generate\_taks\_id function works correctly, generating an ID which is one more up from the last one eg. T1, T2. | Expected | ‘Excpected’ Value from the last test: | Should output the correct task ID, along with all the dictionaries due to the output not being properly created yet. The ID should be one more from the last generated one (Should be ‘T6’) | Output all dictionaries, With the updated one. The new task\_ID was invalid and overwrote an old task. | Adding a +1 to the generate\_task\_id because the list indexes start from 0 |
| 24/6 | Seeing if the generate\_taks\_id function works correctly, generating an ID which is one more up from the last one eg. T1, T2. | Expected | ‘Excpected’ Value from the last test: | Should output the correct task ID, along with all the dictionaries due to the output not being properly created yet. The ID should be one more from the last generated one (Should be ‘T6’) | Created a new task dictionary with ID T6, didn’t overwrite another dictionary. | N/A |
| 24/6 | Seeing if my Integer Validation Function works, seeing if it returns the correct values. It should check if the value is an integer and if it between a certain range. | Valid | I input the number 1 | The program should allow this and continue to add it as a new task. No error pop up, just saying ‘new task has been added.’ | The program added the task and showed me all tasks showing me it has been successfully added. | N/A |
| Invalid | I input the word ‘hello’ | The program should give an error, saying “Please input a number” | The program gave an error and allowed me to re-enter the value again. | N/A |
| Boundary | I put in the number 0 | The program should give an error, saying “Please input a number between 1 and 3” | The program gave an error and allowed me to re-enter the value again. | N/A |
| I put in the number 3 | The program should give an error, saying “Please input a number between 1 and 3” | The program gave an error and allowed me to re-enter the value again. | N/A |
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| Search Function: search\_selection, search\_tasks, search\_members, search\_members\_dictionary, search\_members\_inputd | | | | | | |
| Date | What is being tested | Test Type | Test Value | Expected Result | Actual Result | How it was fixed |
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| NAME Function/ Feature | | | | | | |
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*Continue the same format for all functions and features*

**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 |
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