91896 - Testing Document

**Unit Testing**

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| NAME Function/ Feature List feature  Search | | | | | | |
| Date | What is being tested | Test Type | Test Value | Expected Result | Actual Result | How it was fixed |
| 24/06/2025 | I searched the task and name for some tasks | Expected | I inputted T4, and Design Homepage | I expect to see the task I searched for when I entered it’s ID or name. | It showed file not found file not found file not found then showed the right task. Pressing cancel also bricks the program. | I fixed this by moving the If statement outside the for loop. I also added a check for None, to check if the user pressed cancel. |
| 14/07/2025 | I searched for invalid strings in the search task function. | Invalid | Entering a blank string | Return an error message that says you can’t enter blank string, then return to menu. | It returns with “task not found”, then boots the user back to main menu with no warning about avoid empty string. | I fixed this by accounting for None and len() == 0. This avoids blank space being entered to break the program. |
| 14/07/2025 | I searched for members ID and full name | Expected | Entered both JSM and John Smith | After being searched, shows the users full name and email address. | It mostly does it’s job right expect when starting the program the system returns with some warning about c:\Users\BotSolo\Documents\GitHub\91896-Kimi\main.py:104: SyntaxWarning: invalid escape sequence '\E'  f"Name: {users[userID]['name']}\Email:" \  c:\Users\BotSolo\Documents\GitHub\91896-Kimi\main.py:111: SyntaxWarning: invalid escape sequence '\E'  f"Name: {users[userID]['name']}\Email:" \ and the display of the name is glitched and does not separate lines. | To fix this, I simply added fixed a type of \n not being there. It was originally a \Email. |
| 25/07/2025 | Searching partial names and ids | Invalid | Entering most of the members ID but not completing it. For example JS. Same for tasks, searching Creat | It returns with no tasks found. | It returns with no task found. | To fix this, I simply changed the username and task checks from == to in. |
| 28/07/2025 | Searching users to see what tasks is assigned to them. | Expected | Entering jsm then john | It returns with the assigned task’s IDs. | It works but when entering John, the task shows up twice, {t1,t5,t1,t5}. | I fixed this by adding a part to remove the appended part, so that it stays clean and constantly updated. (Had to use .remove instead of .pop cuz in intg) |
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| NAME Function/ Feature  List | | | | | | |
| Date | What is being tested | Test Type | Test Value | Expected Result | Actual Result | How it was fixed |
| 12/7/2025 | Testing whether the list task function worked as expected, now as a msg box | Expected | I pressed the list task button | It displays all the tasks on a single msg box | It displays them on multiple msg box. | Added task detail outside the for loop at the beginning and made it += instead of just = |
| 14/7/2025 | List task function | Expected | The list function | I expect to see all the stock tasks and its details when selected. | It works exactly as expected, I can also press cancel to get back to the main menu. | N/A |
| 14/7/2025 | List task after adding/updating a task. | Expected | The list/add/update function | I expected to successfully change/add the tasks and then list said task after it’s changed. | Works as expected. | N/A |
| 16/07/2025 | I am testing whether calling the list task function, the menu with all the tasks displays and works as expected. To do this, ill first add a new task, modify an existing task, then displaying all the tasks. | Expected | N/A | I expect a menu containing all the task whether it’s stock or added by the add task function. | Everything displays as expected, whether the new task or the modified task. The rest of the tasks remains normal. | N/A |
| 17/7/2025 | Testing if list task displays as expected | Expected | I pressed the list task button. | It displays as a message box of all the tasks details. | It displays as a choice box instead of a whole message box with all of the tasks details. | It was fixed by deleting the choice box option and simply displaying all the tasks in one msgbox as required. |
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| NAME Function/ Feature  New Task | | | | | | |
| Date | What is being tested | Test Type | Test Value | Expected Result | Actual Result | How it was fixed |
| 22/07/2025 | I am testing whether creating new tasks works as expected | Expected | I entered, title, desc, 1, Not Started, JSM | Expected new tasks to be created. | It outputs Status can only be Not Started, In Progress… | Fixed by changing a if statement from if “” or “” or to checking a list instead, if status not in [“”,””,””] |
| 23/07/2025 | Tested whether blank space affected results of validation | Invalid | Title  Desc  1  Not started  Jsm | Expected to break as no validation yet. | It breaks, similar to the one in update task. | Added .strip aswell. |
| 3/08/2025 | Testing whether number with a space after it still works with priority. | Invaid | Title  Desc  1  Not started  Jsm | Expecting the program to break | It breaks, similar to the one above, giving the error message “Must enter a positive whole number.” | Added .strip() |
| 03/08/2025 | Testing whether priority catches the priority that is outside the boundary. | Boundary - valid |  |  |  |  |
|  |  | Boundary - invalid |  |  |  |  |

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| NAME Function/ Feature  Menu | | | | | | |
| Date | What is being tested | Test Type | Test Value | Expected Result | Actual Result | How it was fixed |
| 14/07/2025 | Main menu function | Expected | Seeing if all the buttons work, expect the ones not assigned a function yet. | For all button to function and redirect user to different functions of the app. | Most of the button’s work but due to recent changes made to the Search function, the title nothing match it’s function. | Simply change It from search task to just search. Also updated what function it redirected the user to, It used to direct user to searchTask() but now just search(). |
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| NAME Function/ Feature  Update task | | | | | | |
| Date | What is being tested | Test Type | Test Value | Expected Result | Actual Result | How it was fixed |
| 23/07/2025 | Testing whether all the value validation works. | Expected | Title  Desc  1  Ja  ck | Expected the value validation to catch the invalid strings for status and assignee | It just created a new task with invalid values. | Updated its validation statements |
| 23/07/2025 | Testing whether space affect the validation | Invalid | Title  Desc  1  Not started [space]  Jsm [space] | Expected stuff to break as I did not add a validation or found a way to remove said space yet. | It broke the code. | Added .strip() to most of them, first to remove the unnecessary spaces and makes lists nicer. |
| 29/07/2025 | Testing whether I can edit specific fields at once. | Valid | I clicked update task, selected the task I wanted to edit, then choose the field I wanted to edit. Then entering the value. | I expected everything to work, meaning that everything I enter shows up on the list task function after edit as expected. | All values shows up as expected. | N/A |
| 29/07/2025 | Testing whether I can enter invalid values into fields. | Invalid | I clicked the update task, selected my task, choose priority, then entered string. | I expected the program to still put the word “string” under the priority when listing task, as I did not program a validation system yet. | It was what I expected. | To fix this, I simply copied the old validation to the new update task, then edited it so it fits the new environment. |
| 05/08/2025 | Testing whether I can enter incorrect range of int into the priority box. | Boundary test, invalid. | To test this I clicked the update task, priority, then entered 4. | I expected for the program to catch this out of range value, similar to the ones in new task. | It was not what I expected, as the value went through. | To fix this, I copied the validation from new task to account for the range. |
| 05/08/2025 | Testing whether I can enter an invalid assignee. | Invalid | To test this, I clicked update task, then assignee, then I entered x, then JLO | I expected the program to account for this, as I copied all the checks from the new task. | It worked exactly as I expected. When invalid, It prints a list of valid users. When valid, it passes through with no blocks. | N/A |

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| NAME Function/ Feature  Report | | | | | | |
| Date | What is being tested | Test Type | Test Value | Expected Result | Actual Result | How it was fixed |
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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 |
| 1/08/2025 | Adding a new task then updating the status on the task then searching the task and lastly generating the report. | Expected | I first added a task with the values of “title, desc, 1, in progress, jsm”, then I updated the status from in progress to completed in update task, searched up “completed”, then generating a report. | I expected everything to show up as it should, meaning that new task goes through successfully, the update task to go through, the search task coming up with the correct values, and lastly for the completed to go from 0 to 1. | Most of that worked, expect when searching the task the status was completed instead of Completed, which also means that the report will not show completed as 1 but instead 0. |  |
| 06/08/2025 | Updating the status of tasks to completed then generating a report. The status entered will be capital and non capital. | Expected | I entered completed and Completed and comPleted. For all tasks. | I expected everything to work as expected, given that I have added string format conversion. | Everything works, even the comPleted, which I didn’t really expect to work. | N/A |
| 06/08/2025 | The new task function, the update function and the report function. I used all these function to create a new task > update its status to complete, then generating a report. | Expected | I created a new task with a info of tltle: title  Description: disc  Priority: 3  Status: in progress  Assigned to: JLO  Then changed the status to complete before generating a report. | I expect everything to work, meaning all values shows up correct, the task is updated and then the report reports the correct value of tasks. | Everything worked as expected, even when I typed in “cOmPlEtEd”. | N/A |
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