

# 91896 - Testing Document

## Unit Testing

Menu Function:						
Date	What is being tested	Test Type	Test Value	Expected Result	Actual Result	How it was fixed
17/6/2025	The menu, in the menu function, and whether it appears correctly	Expected	I ran the function	It is supposed to display all the choices on one page (one <code>easygui.buttonbox</code> ). And then allow the user to select what they would like to do	It does not run and nothing appears	I realised that I had to call the menu function first by adding 'menu ()'
17/6/2025	Whether the menu displays all the choices on one page.	Expected	I ran the program	I expect each choice to appear on the menu page all at the same time	Each choice is displayed individually on different pages, forcing the user to click through to access certain choices.	I had to make all the code in the function align in one line and remove the indentation, as the indentation was causing the menu button box to loop and display each choice on its own page

18/6/2025	I am testing if my logout function correctly exits the program if the user wants to log out.	Expected	Pressing the log out button	The logout function allows the user to exit, and quits the program	Instead, when the user confirms that they want to exit, the main menu still appears	I had to at () these brackets at the end of the inbuilt python exit () function. Now it allows the user to correctly exit
18/6/2025	I am testing if my program will output a task correctly	Expected	Running the program	The program should correctly output the task and its relevant information	The program gives me a syntax error output = [f"--- {tasks[task_id]}["Title"] ---"]  ^^^^ SyntaxError: f-string: unmatched '['	The fix was that I had to replace the double quotation marks around the title for single quotation marks
30/07/2025	I am testing the exit from the menu (the main program)	expected	Running the menu	The program should ask the user if they are sure they want to exit	The program crashes with key error 'logout'	The fix was to call the exit function, which the program was not doing

### Add task Function/ Feature

Date	What is being tested	Test Type	Test Value	Expected Result	Actual Result	How it was fixed
23/06/2025	Whether the add function works, and successfully outputs the task	expected	Entering the task categories into the easy Gui boxes	The program takes the user inputs, and outputs the task at the end	The program breaks and gives an error	The fix was removing the categories list from the add

						function brackets, as this caused an error with positional arguments
24/06/2025	I am testing the validation of integers when adding priority to a task	invalid	String values	The program is expected to pop up with a message that tells the user to enter an integer input between 1-5	The program allows the input of strings which it shouldn't	The fix was to remove square brackets from around 'priority', and 'assignee'
24/06/2025	I am testing the validation of an expected value in the priority pops up	expected	Integer value	The program is expected to accept an integer input between 1 to 5, and then display it in the task output	The program accepts the integer and displays it in the task output	Nothing was fixed
26/06/2025	I am testing the integer validation function	invalid	String value	The program should tell the user to enter an integer value	The program doesn't run int validation	The fix was to remove square brackets from around 'priority', and 'assignee'
17/07/2025	I am testing if the task is assigned to the member of the team					
17/07/2025	I am testing this function of the button bow	expected	Running thr add task	The program should give the user an option of assigning the task to either 'completed',	The program provides the default value of button one button 2 , and button 3	The problem was the the button value were located in the 'title' section of the syntax, so the

				blocked, or started.		values were set as the title and not the buttons. The fox was to add a title in the right spot
21/07/2025	I am testing if when I add a task it appends the task to the assigned member	expected	Running the program	The program should add the task id to the members 'assigned tasks.' Then when I output members, they should have the assigned task	The program does not assign the task to the assignee. When I search for the member, the task is not appended to them	The fix was to add in a line that append the task_id to the user. And now the tasks are added correctly to the members task assigned
22/07/2025	I am testing if the program correctly exits and or runs when the user selects to add an assignee	expected	Running the program	The program should allow the user to exit without any errors, using either the 'cancel' or 'x'	The program gives me a variable error, and does not exit out of the program correctly, and instead crashes	The fix was to add the statement 'if value is None' to exit the program if the user doesn't input anything. After the changes the program now runs as expected and allows the user to either continue or to exit.
22/07/2025	I am testing if the user can select 'completed' as the task status when adding	expected	Running the program	The program should allocate the 'completed' status to the task and then output it	The program outputs 'completed' as the status, and outputs the task correctly	No fix

22/07/2025	I am testing if the user can add 'blocked' as the status for a task when adding it	expected	Running the program	The program should allocate the 'Blocked' status to the task and output it	The program gives me a key error and crashes. It also doesn't output the task	The fix was to capitalise "Blocked" in the status option for the user. This is because there was a capitalisation conflict between the dictionary and the status options, where the B wasn't capital in status options, but capital in the dictionary
30/07/2025	I am testing my boundaries in priority	boundary	Running the add task function, and typing in '-1'	The program should tell the user to enter a valid integer between 1-3 for the priority	The program does tell the user to enter a valid integer between 1-3	n/a
30/07/2025	I am testing my boundaries in priority	boundary	Running the add task function, and typing in '1'	The program should move on to the next step without telling the user to enter a valid integer	The program does move through and outputs the priority correctly	n/a
30/07/2025	I am testing my boundaries in priority	boundary	Running the add task function, and typing in '2'	The program should move on to the next step without telling the	The program does move through and outputs the priority correctly	n/a

91896

Name:

				user to enter a valid integer		
30/07/2025	I am testing my boundaries in priority	boundary	Running the add task function, and typing in '3'	The program should move on to the next step without telling the user to enter a valid integer	The program does move through and outputs the priority correctly	n/a
30/07/2025	I am testing my boundaries in priority	boundary	Running the add task function, and typing in '4'	The program should tell the user to enter a valid integer between 1-3 for the priority	The program does tell the user to enter a valid integer between 1-3	n/a
30/07/2025	I am testing an invalid input into priority	invalid	Running the add function and typing in a string input into priority	The program should tell the user to enter an integer and not a string, and allow them to enter again	The program tells the user to enter an integer input between 1-3	n/a
31/07/2025						

### Search function/ Feature

Date	What is being tested	Test Type	Test Value	Expected Result	Actual Result	How it was fixed
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91896

Name:

26/06/2025	I am testing if the search function shows the task titles	expected	Running the search	The program should show the task titles	It shows Choice 1 and choice 2 instead of showing the task titles	The problem was that the program didn't pass any choices to the buttons, so the program defaulted to placeholders' choice 1 and choice 2
18/07/2025	I am testing if the cancel button works on the search function	expected	Running the search	The program should go back to menu after pressing cancel	There is no cancel button, and the only way to return is to press the 'x'	I fix was to call a seperate exit search fuction which allows the user to exit the search function. And now the user is able to press 'cancel' to exit the search

### Search team member/ Feature

Date	What is being tested	Test Type	Test Value	Expected Result	Actual Result	How it was fixed
26/06/2025	I am testing the output of team members	expected	Running the search	The program should show the names of team members and output their info	It gives me errors to do with improper naming	I fixed it by changing 'task output' to 'team member output'

Output all tasks/ Feature						
Date	What is being tested	Test Type	Test Value	Expected Result	Actual Result	How it was fixed
23/06/2025	I am testing if my program will output all tasks if proper form	Expected	Running the program	The program outputs all the tasks in an easy Gui msgbox, with each task being separated by a gap	I get a “key” error, and the function does not do anything	The problem was that I name one of the variables I was appending to as tasks not task. This meant that is was appending to nothing and giving the error
24/06/2025	I am testing if my program will output all tasks in proper format	Expected	Running the program	The program is expected to output all the tasks in proper format	The program outputs each task 4 times with odd titles misplaced	The problem was that I named one of the variables I was appending to, as ‘tasks’ not ‘task’. This meant that it was appending to nothing and giving the error

[Generate report](#)



Date	What is being tested	Test Type	Test Value	Expected Result	Actual Result	How it was fixed
28/07/2025	I am testing how the output of the reports looks	expected	Running the function	The program should generate each report on the same page (decision made due to user feedback)	The program displays them each in a separate box	The fix was to combine each separate easugui msg box with the individual task statuses into one. The program now outputs them appropriately all in one box, and the user believes this is the best decision
30/07/2025	I am testing how the output of the reports looks	expected	Running the function	The program should evenly display all the tasks and their statuses	The program displays them in an odd format that does not look appealing	It was fixed through backspacing the 'backslashed' code on the next lines to be at the start of the line. The program now outputs normally

Str_validation testing						
Date	What is being tested	Test Type	Test Value	Expected Result	Actual Result	How it was fixed
23/07/2025	I am testing if you can enter a blank	invalid	"" blank	The program should tell the	The program tells the user to enter a value, and lets	N/A

	value and the function catches it			user to enter a value	them try input it again by returning	
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**Str\_validation testing**

Date	What is being tested	Test Type	Test Value	Expected Result	Actual Result	How it was fixed
31/07/2025	I am testing if the output task correctly outputs a task	expected	Running the search task program	The program should correctly output the task and its details	The program correctly outputs the task and its details without any errors	N/A

**Str\_validation testing**

Date	What is being tested	Test Type	Test Value	Expected Result	Actual Result	How it was fixed
31/07/2025	I am testing if a new task ID is generated when I create a new task	expected	Adding a task, by running the add task function	The program should generate a new task_id through the function	The program creates a new task id, and it works as expected	N/A

**int\_validation testing**

Date	What is being tested	Test Type	Test Value	Expected Result	Actual Result	How it was fixed
31/07/2025	I am testing if it correctly catches integers outside the priority range of 1-3	expected	Value '1'	It should allow the user to add the priority	It allows the user to add that priority	N/A

**User testing of functions**

Date	What is being tested	Test Type	Test Value	Expected Result	Actual Result	How it was fixed
24/07/2025	The user is testing the output of all tasks and their statuses in generate report	expected	Running the generate report function	The program should display the tasks each on different easygui message boxed with their statuses	The program correctly outputs the tasks and their statuses each on different pages as was programmed	The users feedback was to display all the tasks and their statuses on one page so the program is more efficient as it would take less time to check the status of all the tasks. And it is more robust as if the user accidently misses one of the statuses due to a miss click then would have to run the function again, and loop through al lthe others before they could see it

31/017/2025	The user is testing naming conventions	expected	Running the search team member function	The wording should ask the user to pick what member they would like to veiw	The wording says "Pick a task to view"	I had to change the wording to make sense for searching a team member and not a task.
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### Update task

Date	What is being tested	Test Type	Test Value	Expected Result	Actual Result	How it was fixed
17/07/2025	I am testing if when I chose to update status, it pops up with the buttons with the correct values	expected	Running the update function	The program should display the correct buttons	The program does display the correct values	n/a
17/07/25	I am testing if the update_task function adds the chosen status and show the task with the right status	expected	Running update task function	The program should display the task progress next to the task name in the output	The program errors out as it cannot find the set variable 'new_value'	The fix was to change a variable name from 'value' to 'new_value'
17/07/25	I am testing if the program appends the member to the assignee section in tasks	expected	Running the update task function	The program should append the assignee code to the task	The program doesn't append the member to the assignee section in the task	The fix was to remove a menu () call which looped back to the menu

18/07/25	I am testing the update function	expected	Running the update program	The program should run fine with no issues	The program doesn't assign the set assignee to the task and prints an extra task	The fix was to indent 'return task_id' as the loop was iterating and only printing the last
21/07/2025	I am testing if the task is assigned to the set assignee after updating a task	expected	Running the program	The program should add the task id to the members 'assigned tasks'	The program doesn't assign the task id to the member, as when I search for that team member it	Like the add function the fix was to add a statement that appends the task id to the members 'task assigned' dictionary. And now the program adds the tasks as expected.
23/07/2025	I am testing if I can correctly update the priority in the update function	expected	Running the program	The program should add the inputted priority to the final task output in the end	The program crashes, and does not append the set priority to the output of the task and its information at the end	The error was because I did not pass the minimum, and maximum value to the int_val function which caused the program to crash. So, the fix was to pass the minimum '1', and '3', and the program now adds the inputted priority and outputs it in the task.
24/07/2025	I am testing if I can add a task twice to a team member	expected	Running the update task and adding the same task to a person who already has the task	The program should not allow the task to be added two times. Instead, the program should remove the existing task and add the task	The program performs as expected and does not allow the user to add two of the same tasks to the same person	n/a

				they want to add. This means the same task cannot be added twice		
31/07/2025	I am testing if I can assign the same task to two people	expected	Running the update task and adding a task to one person, and then assigning it to a different person	The program should remove the task from any other members that have it assigned, and assign it to the users current selected member	The program performs as I expected and assigns the task to the current person the user has selected	n/a
31/07/2025	I am testing if I can enter a blank value into the 'description' section of update task	invalid	Running the update function and pressing enter when the description box pops up or entering ""	The program should tell the user that they need to enter a value, and then		
31/07/2025	I am testing if I can change a task that is 'completed' to a different status	expected	Running the update and changing the status of a task from completed to a different one.	The program should not allow the user to change the status from completed	The program crashes. With a key error 'completed'	The fix was to add a else statement to catch the action. The if statement checks if the tasks status is already completed, and if it is, it tells the user that they are not allowed to update the status of an already completed task.

31/07/2025	I am testing if when I set a task to completed, and then output all tasks, if the assignee shows as 'none'	expected	Running the update function and setting a tasks status to complete, then outputting all the tasks and checking if assignee if 'none'	The program should display 'none' as the assignee in the completed tasks description	The program still shows tha assignee in output_all and doesnt remove the assigne	The fix was to add the line tasks[task_id]["Assignee"] = "None". Which sets the assignee in the task to none, whereas before the program removed the task from the assigned tasks in members, but didn't update the output to show that no tasks are assigned
31/07/2025	I am testing if I can change a task to "completed" two times	expected	Running the update function twice and changing the status to completed both times	The program should tell the user they cant change the status of a completed task	The program crashes	The fix was to fix capitalisation errors

*Continue the same format for all functions and features*

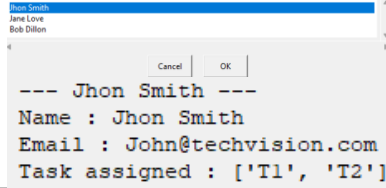
## System Testing

Whole Program						
Date	What is being tested	Test Type	Test Value	Expected Result	Actual Result	How it was fixed
31/07/2025	I am testing if the user can add a task, and if the program outputs the task in correct format, with correct titles matched up to the added values	expected	Running the add function and adding a task	The program should correctly output the tasks in the right format	The program correctly adds the tasks and outputs them with the correct titles and values matched up	N/A
31/07/2025	I am testing the 'x' button when entering a title for a new task	expected	Running the add function, specifically add_task	The program should return to the menu without adding an empty task with a title	The program returns back to the menu with no error	N/A
31/07/2025	I am testing if I can view all the team members and their	expected	Running search team member function through the main search	The program should display team member details in	The program correctly outputs the team members and the id's of the tasks assigned	N/A



91896

Name:

	information, which includes tasks assigned			correct format, with the tasks present as well		
31/07/2025	I am testing if i can assign a task to be 'completed' twice	expected	Running the update function twice	The program should ignore the double up in the update and not error	The program errors, when trying to make a task 'complete' two times	The fix was to add code to check to see if the assignee was assigned, then it checks if the task is not completed and then it will move the task id from the team member dictionary
31/-07/2025	I am testing the exit button function in the search function. And seeing if it returns back to the main menu	expected	Running the search function and then pressing exit	The program should return to the menu with no errors or crashes	The program correctly returns back to the menu with no errors, or other problems.	N/A

31/07/2025	I am testing the function of the 'x' button in the update function	expected	Running the update function and pressing 'x'	The program should return to the menu and not exit the entire program. It also should not have any errors	The program correctly return back to the menu	N/A
31/07/2025	I am testing if the user is able to update an assignee from tasks in the task dictionary	expected	Running the program and testing if the user is able to update the assignee of a existing task	The program should update the assignee to the selected member and output the task with the new assignee	The program allows the user to update the assignee of existing tasks in the dictionary, and then outputs the task with the updated assignee.	N/A
31/07/2025	I am testing if the user can press the 'x' at any point in the program	expected	Running each program and pressing the 'x' for each pop up menu	The program should exit back to the menu or the pop up before, depending on what's stage the user is in in a function	The program correctly exits each pop up with no error	N/A