91896 - Testing Document

**Unit Testing**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| NAME Function/ Feature System\_search | | | | | | |
| Date | What is being tested | Test Type | Test Value | Expected Result | Actual Result | How it was fixed |
| 18/07/2025 | system search Open view staff | expected | Press button staff member | Runs next function to pick user | Actual Result matched expected results |  |
| 18/7/25 | system search Open view task | expected | Press button task | Runs next function to pick user | Actual Result matched expected results |  |
| 18/07/25 | system search user exit | invalid | Press x button | Return to home page | Actual Result matched expected results |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| NAME Function/ Feature user pick task | | | | | | |
| Date | What is being tested | Test Type | Test Value | Expected Result | Actual Result | How it was fixed |
| 17/06/2025 | Easygui find and allow user to select a task from task list | Expected | None as didn’t open | Easy gui opens with a list of 5 tasks that the user can select from | Program crashes out with error message TypeError: 'builtin\_function\_or\_method' object is not iterable | I digonised my error with AI  I had missd the closing brackets on .Items  So it was corrected to .items() |
| 18/07/2025 | Easygui find and allow user to select a task from task list | expected | Select design homepage | Return task id to the requesting function | Actual Result matched expected results |  |
| 18/07/2025 | Easygui find and allow user to select a task from task list | expected | Select fix navigation menu | Return task id to the requesting function | Actual Result matched expected results |  |
| 18/07/2025 | Easygui exit task pucker | expected | Select x | Return to home page | Actual Result matched expected results |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| NAME Function/ Feature user pick task\_items | | | | | | |
| Date | What is being tested | Test Type | Test Value | Expected Result | Actual Result | How it was fixed |
| 17/06/2025 | Easygui find and allow user to select a task item from task item | Expected |  | Easy gui opens with a list of 5 tasks items that the user can select from | Actual Result matched expected results |  |
| 21/07/2025 | Easygui find and allow user to select a task item from task item | expected | title | Return “title’ to the calling function | Actual Result matched expected results |  |
| 21/07/25 | Easygui find and allow user to select a task item from task item | expected | status | Return ‘status’ to the calling function | Actual Result matched expected results |  |
| 31/07/2025 | Check if presting x return to menue | expected | Press x | Return to menu | Error as can hadel None when passed throug | Add if statme checking if usre selected x then if they do return back to menu |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| NAME Function/ Feature user\_pick\_user | | | | | | |
| Date | What is being tested | Test Type | Test Value | Expected Result | Actual Result | How it was fixed |
| 23/07/2025 | Check if it pull user names | expected | N/a | Display all 3 users names | Actual Result matched expected results |  |
| 24/07/2025 | Select user return id | expected | John smith | Return JSM to calling function | Actual Result matched expected results |  |
| 24/07/2025 | Select user return id | expected | Bob dillon | Return BDI to calling function | Actual Result matched expected results |  |
|  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| NAME Function/ Feature edit task | | | | | | |
| Date | What is being tested | Test Type | Test Value | Expected Result | Actual Result | How it was fixed |
| 25/07/2025 | Edit description | expected | Desine home page , title , desine “homepages” | Page open showing new and old value then also changes the diconary | Erros out | I had renamed my user input vairbles as my old vairbuls did not make sense for the devopler and missed spelled my first vairble name in the dictonary search I correctly speed it no woks |
| 25/07/2025 | Edit title | invalid | typed same title again (no changes) | Warning message says nothing changed and returns to menu | Just closes | Forgot to check for value equality before updating. Added check: if value == new\_value: before saving. |
| Edit status | expected | Expected | set status to Completed | Status updates and task is removed from team member’s list | Crashes | I accessed team[assignee] without checking if assignee was empty or correct. Added check for key in team before removing task. |
|  | Edit assignee | invalid | previous assignee was already removed | Should switch to new assignee without crashing | Errors: KeyError | Code tried removing task from the old assignee who no longer had the task. Added: if task in team[assignee]["task"]: guard. |
| 26/07/2025 | Edit priority | Expected, boundary | changed from 2 → 3 | Priority updated and view refreshed | Actual Result matched expected results |  |
| 26/07/2025 | Edit priority | Expected, boundary | changed from 2 → 1 | Priority updated and view refreshed | Actual Result matched expected results |  |
| 26/07/2025 | Edit priority | Expected, boundary | changed from 2 → 4 | Program informs user that the highest priory = is 3 | Actual Result matched expected results |  |
| 26/07/2025 | Edit priority | Expected, boundary | changed from 2 → 0 | Program informs user that the lowest priory = is 1 | Actual Result matched expected results |  |
| 26/07/2025 | Edit priority | Expected, boundary | changed from 2 → 10 | Program informs user that the highest priory = is 3 | Actual Result matched expected results |  |
| 26/07/2025 | Edit priority | Expected, boundary | changed from 2 → # | Program informs user that they must enter a number | Actual Result matched expected results |  |
| 26/07/2025 | Edit priority | Expected, boundary | changed from 2 → x | Program informs user that they must enter a number | Actual Result matched expected results |  |
| 26/07/2025 | Edit priority | Expected, boundary | changed from 2 → two | Program informs user that they must enter a number | Actual Result matched expected results |  |
| 26/07/2025 | Edit priority | Expected, boundary | changed from 2 → 2.5 | Program informs user that they must enter a intger | Actual Result matched expected results |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| NAME Function/ Feature pick and view | | | | | | |
| Date | What is being tested | Test Type | Test Value | Expected Result | Actual Result | How it was fixed |
| 14/07/2025 | Output format | Expected | Enter to T1 | Easy gui opens with a message box with T1 info | Program crashes with TypeError: 'int' object is not iterable | I digonised my error with one note I had formatted my creation of the message wrong |
| 15/07/2025 | View user with tasks | expected | Pick user “JSM” | Msgbox shows their name, details, and all assigned tasks formatted nicely | Actual Result matched expected results |  |
| 15/07/2025 | View user with no tasks | expected | Pick user “BDI” after all tasks removed | Msgbox shows their name and details, but no tasks listed | Actual Result matched expected results |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| NAME Function/ Feature new task | | | | | | |
| Date | What is being tested | Test Type | Test Value | Expected Result | Actual Result | How it was fixed |
| 24/06/2025 | User input | Expected, | Test,  Test hole website  Jsm  1  Not started | Save and exit to menu | ValueError | I had set the default to a empty string |
| 24/06/2025 | User input | Expected, | Test,  Test hole website  Jsm  1  Not started | Save and display the new entry then after user hits ok continue to menu | Save and display the new entry then after user hits ok continue to menu |  |
| 24/06/2025 |  | Expected, Boundary, or Invalid |  |  |  |  |
| 24/06/2025 | Create new task (normal) | expected | Title: "Design Logo", Description: "Simple flat design", Assignee: JSM, Priority: 2, Status: "Not Started" | Task ID generated (e.g., T1), saved to task, assigned to JSMITH, shown in view\_task() | Actual Result matched expected results |  |
| 17/07/25 | Leave title blank | invalid | Title: "" | Messagebox: “you can’t have a blank title”, asks again | Actual Result matched expected results |  |
| 17/07/25 | Cancel on description | invalid | Clicked Cancel on description entry box | Returns to menu without saving task | Works correctly |  |
| 17/07/25 | Assign task to "None" | expected | Assignee: "None", Status: "Blocked" | Task saved without assigning to a team member | Actual Result matched expected results |  |
| 17/07/25 | Priority out of bounds | invalid | Entered 5 for priority | Input rejected → asks again for value between 1–3 | Actual Result matched expected results |  |
| 18/07/25 | Status cancel | invalid | Clicked Cancel on status choice | Task creation cancelled, returned to menu | Actual Result matched expected results |  |
| 18/07/25 | Duplicate task names | expected | Title: "Design Logo" (used twice) | Allowed — new ID generated (T1, T2, etc.), tasks are unique by ID not title | Actual Result matched expected results |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| NAME Function/ Feature pick\_and\_view() | | | | | | |
| Date | What is being tested | Test Type | Test Value | Expected Result | Actual Result | How it was fixed |
| 16/07/2025 | View existing task | expected | Selected valid task ID T1 | Msgbox displays all fields of T1: title, description, status, etc. | Works correctly |  |
| 16/07/2025 | Cancel during selection | invalid | User hits Cancel on task picker box | Returns to menu without crashing | Crashed with TypeError | Added if user\_request\_task is None: return menu() to prevent error |
| 17/07/2025 | Task with missing fields | invalid | Task exists but one field (e.g., "Status") missing | Msgbox shows other fields, skips missing ones | Actual Result matched expected results |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| NAME Function/ Feature view\_all | | | | | | |
| Date | What is being tested | Test Type | Test Value | Expected Result | Actual Result | How it was fixed |
| 24/07/2025 | Display multiple tasks | expected | 5 tasks exist in task dictionary | Msgbox shows all 5 task IDs and their details clearly | Actual Result matched expected results |  |
| 24/07/2025 | Task with missing fields | invalid | One task missing "Status" key | Msgbox shows other fields, skips missing ones | Actual Result matched expected results |  |
| 24/07/2025 | Long text in description | expected | Task has long description (50+ words) | Msgbox still displays properly, scrolls if needed | Actual Result matched expected results |  |
| 24/07/2025 | Special characters in fields | **expected** | Task title: "Fix <Bug> #42", desc with \n | Special characters displayed as text | Actual Result matched expected results | Displayed raw as expected no code injection risk observed |
|  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| NAME Function/ Feature view\_task(num) | | | | | | |
| Date | What is being tested | Test Type | Test Value | Expected Result | Actual Result | How it was fixed |
| 23/7/2025 | Display a valid task by index | Expected | T1 | Displays task T1 | Key erro as I dint pass the index through the function | Added num to the calling function |
| 24/07/2025 | Task with special characters | Expected | Task fields include special characters like <, \n, & | Msgbox shows the special characters as plain text without errors | Actual Result matched expected results |  |
| 24/07/2025 | Task with large amount of data | Expected | Task fields with very long strings | Msgbox scrolls or shows data without truncation or crashing | Actual result matched expected results |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| NAME Function/ Feature view task | | | | | | |
| Date | What is being tested | Test Type | Test Value | Expected Result | Actual Result | How it was fixed |
| 24/07/2025 | Basic report | espected | task dictionary with tasks of various statuses | Shows 2 blocked tasks 1 started and one complete | Actual result matched expected results |  |
| 30/07/2025 | Report with multiple tasks | Expected | task dictionary with tasks of various statuses | Correct counts shown, progress bar matches completion % | Matches expected counts and progress bar |  |
| 30/07/2025 | All tasks completed | Expected | All tasks status “Completed”z` | Progress bar fully filled, 100% shown | Actual result matched expected results |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |

*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 |
|  |  |  |  |  |  |  |
| 21/07/2025 | Edit task title | Expected | Desine homepage to Desine homepage for W3 | Edit changes in all places that the user can view. | Edit changes in all places that the user can view. | N/a |
| 21/07/2025 |  |  |  |  |  |  |
| 24/07/2025 | Task creation and report | Invalid | Enter cancel for all data points giving null | Leaves all spots blank and in the report it is counted as a not started | Leaves all spots blank and in the report print’s “Unexpected status encountered!” as it can handel |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| 24/06/2025 | Task view after creation of task | Expected, | New task created ,T6 | Show task 6 | Shows task 6 but not in wanted form | Changed the way I show the data |
| 31/07/25 | Edit task status | Expected | Change task status to "Completed" | Status changes, task removed from assignee’s list |  |  |
| 31/07/25 | Reassign task to different user | Expected | Change Assignee from JSM to BDI | Task removed from old assignee's task list and added to new assignee's task list | Didn’t remove JSM and didn’t add to bdi but stull displayed in bid as the task was changes but not the user task list | Add 2 lines one to append to new user and one to appends to old wile also cheking that there was a user and is a new user |
| 31/07/25 | View all tasks display | Expected | Select view\_all from menu | All tasks display in readable format in message box | Display is cluttered or hard to read | Refined output string for readability |
| 31/07/25 | Report progress bar accuracy | Expected | Tasks have mixed statuses | Progress bar and percentages reflect correct completion rate | Progress bar matches completed tasks |  |
| 31/07/25 | Cancel selections in choice boxes | Invalid | Cancel any choicebox or buttonbox | Buttonbox Program returns to menu cleanly without error | Program sometimes crashes or exits | Added None checks to handle cancellations |
| 31/07/25 | Empty assignee field handling | Expected | Create task with empty assignee | Task shows as unassigned, not assigned to anyone's task list | Task shows, no errors |  |