# Test Plan

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| **Test No.** | **Type of Test** | **Purpose of Test** | **Expected Outcome** | **Test Data** |
| 1 | Functionality | To ensure the program can display all books currently in stock at the library. | The program displays all books in the library, as requested by the user. | N/A |
| 2 | System | To ensure data is stored consistently across the program. | The data is formatted consistently across the program. | N/A |
| 3 | Functionality | To ensure the program can display all DVD’s currently in stock at the library. | The program displays all DVD’s in the library, as requested by the user. | N/A |
| 4 | Functionality | To ensure all messages shown are consistent with that which they are linked to. | All messages shown are consistent with that which they are linked to. | N/A |
| 5 | Functionality | To ensure the program can display all members of the library. | The program can display all members of the library. | N/A |
| 6 | Functionality | To ensure the program can display the correct information when requested. | The program can display the correct information when requested. | N/A |
| 7 | Functionality | To ensure the program can search for a specific DVD by using a keyword search on DVD titles. | The program can search for a specific DVD by using a keyword search on DVD titles. | N/A |
| 8 | Functionality | To ensure the program can search for a specific book by using a keyword search on book titles. | The program can search for a specific book by using a keyword search on book titles. | N/A |
| 9 | Functionality | To ensure the program can search for a specific member using a keyword search on member names. | The program can search for a specific member using a keyword search on member names. | N/A |
| 10 | Functionality | To ensure the program can search for DVD’s when not sure of the exact title by performing a keyword search on DVD titles. For example, all DVD titles that have “in the” in their title. | The program can search for DVD’s when not sure of the exact title by performing a keyword search on DVD titles. For example, all DVD titles that have “in the” in their title. | TBD |
| 11 | Functionality | To ensure the program can search for members when not sure of their exact name by performing a keyword search on member names and returning results for certain string combinations. | The program can search for members when not sure of their exact name by performing a keyword search on member names and returning results for certain string combinations. | TBD |
| 12 | Functionality | To ensure the program can update the stored details for current members of the library. | The program can update the stored details for current members of the library. | TBD |
| 13 | Functionality | To ensure that if an incorrect data type is input, the system should handle it in such a way that it does not disrupt the program. | If an incorrect data type is input, the system should handle it in such a way that it does not disrupt the program. | TBD |
| 14 | Useability | To ensure that the program easy to use. | The program is easy to use and has an intuitive design. | N/A |
| 15 | Useability | To ensure that the program is fast and efficient. | The program is fast and efficient. | N/A |
| 16 | Useability | To ensure that the program displays search results in a clear, accurate and easy to read manner. | The program can display search results in a clear, accurate and easy to read manner. | N/A |
| 17 | Useability | To ensure that the program has a professional looking interface that clearly shows it is the system for all Cornwall Council Libraries in the county. | The program has a professional looking interface that clearly shows it is the system for all Cornwall Council Libraries in the county. | N/A |

# Test Log

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| **Test Reference:** | 1 | **Name of Tester:** | Ben Moulton | **Date of Test:** | 31/1/2022 |
| **Purpose of Test:** | To ensure the program can display all books currently in stock at the library. | | | | |
| **Test Type:** | Functionality | | | | |
| **Test Data:** | N/A | | | | |
| **Expected Outcome:** | The program displays all books in the library, as requested by the user. | | | | |
| **Actual Outcome:** | The program displays all books in the library, as requested by the user. | | | | |
| **Pass/Fail/Skipped:** | Pass | | | | |
| **Comments and/or**  **Recommendations:** | Improve the UI, random indentations cause the program to look messy. | | | | |
| **Evidence:** | | | | | |
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| **Test Reference:** | 2 | **Name of Tester:** | Ben Moulton | **Date of Test:** | 31/1/2022 |
| **Purpose of Test:** | To ensure data is stored consistently across the program. | | | | |
| **Test Type:** | System | | | | |
| **Test Data:** | N/A | | | | |
| **Expected Outcome:** | The data is formatted consistently across the program. | | | | |
| **Actual Outcome:** | The data is not formatted consistently across the program. | | | | |
| **Pass/Fail/Skipped:** | Fail | | | | |
| **Comments and/or**  **Recommendations:** | Convert text files into CSV format to improve consistency. | | | | |
| **Evidence:** | | | | | |
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| **Test Reference:** | 3 | **Name of Tester:** | Ben Moulton | **Date of Test:** | 31/1/2022 |
| **Purpose of Test:** | To ensure the program can display all DVD’s currently in stock at the library. | | | | |
| **Test Type:** | Functionality | | | | |
| **Test Data:** | N/A | | | | |
| **Expected Outcome:** | The program displays all DVD’s in the library, as requested by the user. | | | | |
| **Actual Outcome:** | The program cannot display all DVD’s in the library, as requested by the user. | | | | |
| **Pass/Fail/Skipped:** | Fail | | | | |
| **Comments and/or**  **Recommendations:** | Edit line 32 to ensure that the elif checks if the input is the string “2” rather than the integer 2. | | | | |
| **Evidence:** | | | | | |
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| **Test Reference:** | 4 | **Name of Tester:** | Ben Moulton | **Date of Test:** | 31/1/2022 |
| **Purpose of Test:** | To ensure all messages shown are consistent with that which they are linked to. | | | | |
| **Test Type:** | Functionality | | | | |
| **Test Data:** | N/A | | | | |
| **Expected Outcome:** | All messages shown are consistent with that which they are linked to. | | | | |
| **Actual Outcome:** | Some messages shown are consistent with that which they are linked to. | | | | |
| **Pass/Fail/Skipped:** | Fail | | | | |
| **Comments and/or**  **Recommendations:** |  | | | | |
| **Evidence:** | | | | | |
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| **Test Reference:** | 5 | **Name of Tester:** | Ben Moulton | **Date of Test:** | 31/1/2022 |
| **Purpose of Test:** | To ensure the program can display all members of the library. | | | | |
| **Test Type:** | Functionality | | | | |
| **Test Data:** | N/A | | | | |
| **Expected Outcome:** | The program can display all members of the library. | | | | |
| **Actual Outcome:** | The program can display all members of the library. | | | | |
| **Pass/Fail/Skipped:** | Pass | | | | |
| **Comments and/or**  **Recommendations:** | Improve the UI, lack of indentations cause the program to look messy. | | | | |
| **Evidence:** | | | | | |
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| **Test Reference:** | 6 | **Name of Tester:** | Ben Moulton | **Date of Test:** | 31/1/2022 |
| **Purpose of Test:** | To ensure the program can display the correct information when requested. | | | | |
| **Test Type:** | Functionality | | | | |
| **Test Data:** | N/A | | | | |
| **Expected Outcome:** | The program can display the correct information when requested. | | | | |
| **Actual Outcome:** | The program cannot display the correct information when requested. | | | | |
| **Pass/Fail/Skipped:** | Fail | | | | |
| **Comments and/or**  **Recommendations:** | Test cases two, four, seven, eight and nine causes this test case to fail. | | | | |
| **Evidence:** | | | | | |
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| **Test Reference:** | 7 | **Name of Tester:** | Ben Moulton | **Date of Test:** | 31/1/2022 |
| **Purpose of Test:** | To ensure the program can search for a specific DVD by using a keyword search on DVD titles. | | | | |
| **Test Type:** | Functionality | | | | |
| **Test Data:** | N/A | | | | |
| **Expected Outcome:** | The program can search for a specific DVD by using a keyword search on DVD titles. | | | | |
| **Actual Outcome:** | The program cannot search for a specific DVD by using a keyword search on DVD titles (words containing the keyword also appear). | | | | |
| **Pass/Fail/Skipped:** | Fail | | | | |
| **Comments and/or**  **Recommendations:** | Redesign searching algorithm. | | | | |
| **Evidence:** | | | | | |
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| **Test Reference:** | 8 | **Name of Tester:** | Ben Moulton | **Date of Test:** | 31/1/2022 |
| **Purpose of Test:** | To ensure the program can search for a specific book by using a keyword search on book titles. | | | | |
| **Test Type:** | Functionality | | | | |
| **Test Data:** | N/A | | | | |
| **Expected Outcome:** | The program can search for a specific book by using a keyword search on book titles. | | | | |
| **Actual Outcome:** | The program cannot search for a specific book by using a keyword search on book titles (words containing the keyword also appear). | | | | |
| **Pass/Fail/Skipped:** | Fail | | | | |
| **Comments and/or**  **Recommendations:** | Redesign searching algorithm. | | | | |
| **Evidence:** | | | | | |
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| **Test Reference:** | 9 | **Name of Tester:** | Ben Moulton | **Date of Test:** | 31/1/2022 |
| **Purpose of Test:** | To ensure the program can search for a specific member using a keyword search on member names. | | | | |
| **Test Type:** | Functionality | | | | |
| **Test Data:** | N/A | | | | |
| **Expected Outcome:** | The program can search for a specific member using a keyword search on member names. | | | | |
| **Actual Outcome:** | The program cannot search for a specific member by using a keyword search on member names (names containing the keyword also appear). | | | | |
| **Pass/Fail/Skipped:** | Fail | | | | |
| **Comments and/or**  **Recommendations:** | Redesign searching algorithm. | | | | |
| **Evidence:** | | | | | |
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| **Test Reference:** | 10 | **Name of Tester:** | Ben Moulton | **Date of Test:** | 31/1/2022 |
| **Purpose of Test:** | To ensure the program can search for DVD’s when not sure of the exact title by performing a keyword search on DVD titles. For example, all DVD titles that have “in the” in their title. | | | | |
| **Test Type:** | Functionality | | | | |
| **Test Data:** | N/A | | | | |
| **Expected Outcome:** | The program can search for DVD’s when not sure of the exact title by performing a keyword search on DVD titles. For example, all DVD titles that have “in the” in their title. | | | | |
| **Actual Outcome:** | The program can search for DVD’s when not sure of the exact title by performing a keyword search on DVD titles. For example, all DVD titles that have “in the” in their title. | | | | |
| **Pass/Fail/Skipped:** | Pass | | | | |
| **Comments and/or**  **Recommendations:** |  | | | | |
| **Evidence:** | | | | | |
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| **Test Reference:** | 11 | **Name of Tester:** | Ben Moulton | **Date of Test:** | 31/1/2022 |
| **Purpose of Test:** | To ensure the program can search for members when not sure of their exact name by performing a keyword search on member names and returning results for certain string combinations. | | | | |
| **Test Type:** | Functionality | | | | |
| **Test Data:** | N/A | | | | |
| **Expected Outcome:** | The program can search for members when not sure of their exact name by performing a keyword search on member names and returning results for certain string combinations. | | | | |
| **Actual Outcome:** | The program can search for members when not sure of their exact name by performing a keyword search on member names and returning results for certain string combinations. | | | | |
| **Pass/Fail/Skipped:** | Pass | | | | |
| **Comments and/or**  **Recommendations:** | Separate partial name search from full name search; this will reduce unnecessary information appearing. | | | | |
| **Evidence:** | | | | | |
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| **Test Reference:** | 12 | **Name of Tester:** | Ben Moulton | **Date of Test:** | 31/1/2022 |
| **Purpose of Test:** | To ensure the program can update the stored details for current members of the library. | | | | |
| **Test Type:** | Functionality | | | | |
| **Test Data:** | N/A | | | | |
| **Expected Outcome:** | The program can update the stored details for current members of the library. | | | | |
| **Actual Outcome:** | The program cannot update the stored details for current members of the library. | | | | |
| **Pass/Fail/Skipped:** | Skipped | | | | |
| **Comments and/or**  **Recommendations:** |  | | | | |
| **Evidence:** | | | | | |
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| **Test Reference:** | 13 | **Name of Tester:** | Ben Moulton | **Date of Test:** | 31/1/2022 |
| **Purpose of Test:** | To ensure that if an incorrect data type is input, the system should handle it in such a way that it does not disrupt the program. | | | | |
| **Test Type:** | Functionality | | | | |
| **Test Data:** | N/A | | | | |
| **Expected Outcome:** | If an incorrect data type is input, the system should handle it in such a way that it does not disrupt the program. | | | | |
| **Actual Outcome:** | If an incorrect data type is input, the system didn’t handle it in such a way that it did not disrupt the program. | | | | |
| **Pass/Fail/Skipped:** | Fail | | | | |
| **Comments and/or**  **Recommendations:** |  | | | | |
| **Evidence:** | | | | | |
| **Program ends and has to be restarted. This is highly disruptive.** | | | | | |

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| **Test Reference:** | 14 | **Name of Tester:** | Ben Moulton | **Date of Test:** | 31/1/2022 |
| **Purpose of Test:** | To ensure that the program easy to use. | | | | |
| **Test Type:** | Useability | | | | |
| **Test Data:** | N/A | | | | |
| **Expected Outcome:** | The program is easy to use and has an intuitive design. | | | | |
| **Actual Outcome:** | The program is easy to use but doesn’t have an intuitive design. | | | | |
| **Pass/Fail/Skipped:** | Fail | | | | |
| **Comments and/or**  **Recommendations:** | Add new options to specify how the search filter operates (all words containing a phrase vs all complete words equivalent to the phrase) | | | | |
| **Evidence:** | | | | | |
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| **Test Reference:** | 15 | **Name of Tester:** | Ben Moulton | **Date of Test:** | 31/1/2022 |
| **Purpose of Test:** | To ensure that the program is fast and efficient. | | | | |
| **Test Type:** | Useability | | | | |
| **Test Data:** | N/A | | | | |
| **Expected Outcome:** | The program is fast and efficient. | | | | |
| **Actual Outcome:** | The program is fast and efficient. | | | | |
| **Pass/Fail/Skipped:** | Pass | | | | |
| **Comments and/or**  **Recommendations:** | Add functionality to repeat the menu to increase the speed of user interaction. | | | | |
| **Evidence:** | | | | | |
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| **Test Reference:** | 16 | **Name of Tester:** | Ben Moulton | **Date of Test:** | 31/1/2022 |
| **Purpose of Test:** | To ensure that the program displays search results in a clear, accurate and easy to read manner. | | | | |
| **Test Type:** | Useability | | | | |
| **Test Data:** | N/A | | | | |
| **Expected Outcome:** | The program can display search results in a clear, accurate and easy to read manner. | | | | |
| **Actual Outcome:** | The program did not display search results in a clear, accurate and easy to read manner. | | | | |
| **Pass/Fail/Skipped:** | Fail | | | | |
| **Comments and/or**  **Recommendations:** | Some data was in CSV format, some separated by random sized indentation. | | | | |
| **Evidence:** | | | | | |
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| **Test Reference:** | 17 | **Name of Tester:** | Ben Moulton | **Date of Test:** | 31/1/2022 |
| **Purpose of Test:** | To ensure that the program has a professional looking interface that clearly shows it is the system for all Cornwall Council Libraries in the county. | | | | |
| **Test Type:** | Useability | | | | |
| **Test Data:** | N/A | | | | |
| **Expected Outcome:** | The program has a professional looking interface that clearly shows it is the system for all Cornwall Council Libraries in the county. | | | | |
| **Actual Outcome:** |  | | | | |
| **Pass/Fail/Skipped:** |  | | | | |
| **Comments and/or**  **Recommendations:** |  | | | | |
| **Evidence:** | | | | | |
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