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| **Project:** <Enter a project name> | WhatABook Application |
| **Course:** <Enter the course number and name> | CSD 310 Database Development and Use |
| **Description:** <Enter a description> | This document will be used for Test Case documentation on the whatbook.py |
| **Date:** <Enter a date (yyyy/mm/dd)> | 5/11/2021 |
| **Version:** <Enter a version number> | V1.0 |

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| Test 1 | **Sourcing** | | | |
|  | **Test Objective:** Verifies sourcing of db\_init.sql file | **Developer:**  **Date tested:** 2021/05/11 | **Peer tester:**  **Date tested:** <yyyy/mm/dd> | |
| **Step** | **Action** | **Expected results:** | **Developer pass/fail** | **Tester pass/fail** |
| 1 | Source <file path> from MySQL Command Line Client | WhatABook Database to be deconstructed and reconstructed successfully | Yes | <yes/no> |
| 2 | Verify if sourcing occurs from inside the given Python File | WhatABook Database to be deconstructed and reconstructed successfully from within the whatabook.py file | No | <yes/no> |
| 3 | Verify that a user is removed and reconstructed if necessary | A WhatABook User will be removed and added with all necessary permissions successfully | Yes | <yes/no> |
| 4 | Verify that all necessary tables are constructed and have the correct data formats. | All necessary tables and relationships will be established with no errors | Yes | <yes/no> |
| 5 | Verify all records inserted into tables adhere to the structure of the tables that they are being inserted into | All records are successfully added with no errors | Yes | <yes/no> |
| **Comments** | For the most part everything checks out. It may be a good idea to have the WhatABook Application demonstrate the capability of sourcing the db\_init.sql file. | | | |

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| Test 2 | **Main Menu** | | | |
|  | **Test Objective:** Verifies main menu exists and has core functionality | **Developer:**  **Date tested:** 2021/05/11 | **Peer tester:**  **Date tested:** <yyyy/mm/dd> | |
| **Step** | **Action** | **Expected results:** | **Developer pass/fail** | **Tester pass/fail** |
| 1 | Verify that Main Menu is properly displayed | Main menu is clearly displayed on the screen | Yes | <yes/no> |
| 2 | Verify all capabilities are clearly displayed (i.e Show Books, Show Locations, My Account, Exit Program) | All elements are present on the main menu | Yes | <yes/no> |
| 3 | Verify functionality of Show Books command | All available books and related information that is stored in the book table will be displayed | Yes | <yes/no> |
| 4 | Verify functionality of Show Locations command | All locations and their related information that is stored in the store table will be displayed | Yes | <yes/no> |
| 5 | Verify functionality of My Account command | User will be redirected to the user validation screen | Yes | <yes/no> |
| **Comments** | The main menu is clearly displayed, and all core functionalities are there. Some information is non-existent for the books and key information may be missing from the store table. | | | |

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| Test 3 | **User Validation** | | | |
|  | **Test Objective:** Verifies input data meets requirements on user validation | **Developer:**  **Date tested:** 2021/05/11 | **Peer tester:**  **Date tested:** <yyyy/mm/dd> | |
| **Step** | **Action** | **Expected results:** | **Developer pass/fail** | **Tester pass/fail** |
| 1 | Try to input nothing | User will be prevented from performing this action | Yes | <yes/no> |
| 2 | Try to input an ID that is not present in the DB | User will be notified that the inputted ID does not exist | Yes | <yes/no> |
| 3 | Try to input an alphabetic character/string | User will be notified that this is an invalid input | Yes | <yes/no> |
| 4 | Try to input a special character | User will be notified that this is an invalid input | Yes | <yes/no> |
| 5 | Input an existing User ID | User will be successfully redirected to the Account Menu Screen | Yes | <yes/no> |
| **Comments** | User validation checks out. There is nothing to be approved upon in regard to User Validation. | | | |

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| Test 4 | **Account Menu** | | | |
|  | **Test Objective:** | **Developer:**  **Date tested:** 2021/05/11 | **Peer tester:**  **Date tested:** <yyyy/mm/dd> | |
| **Step** | **Action** | **Expected results:** | **Developer pass/fail** | **Tester pass/fail** |
| 1 | Verify that Account Menu is properly displayed and all capabilities are clearly displayed (i.e Show Wishlist, Show Books to Add, Main Menu, Add Book) | Account menu is clearly displayed on the screen | Yes | <yes/no> |
| 2 | Verify all capabilities are clearly displayed (i.e Show Wishlist, Show Books to Add, Main Menu, Add Book) | All elements are present on the account menu | Yes | <yes/no> |
| 3 | Verify functionality of Show Wishlist command | All items on the user’s wish list and related information that is stored in the wishlist table will be displayed | Yes | <yes/no> |
| 4 | Verify functionality of Show Books to Add command | All books that are not on the user’s wishlist are displayed | Yes | <yes/no> |
| 5 | Verify functionality of Main Menu command | User will be redirected to the main menu screen | Yes | <yes/no> |
| **Comments** | All elements appear to be present. The Add Book command probably should’ve been its own menu command that would have redirected the user to an add book screen for an improved user experience. | | | |

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| Test 5 | **Book Addition** | | | |
|  | **Test Objective:** Verifies input data meets requirements on book addition | **Developer:**  **Date tested:** 2021/05/11 | **Peer tester:**  **Date tested:** <yyyy/mm/dd> | |
| **Step** | **Action** | **Expected results:** | **Developer pass/fail** | **Tester pass/fail** |
| 1 | Try to input nothing | User will be prevented from performing this action | Yes | <yes/no> |
| 2 | Try to input an ID that is not present in the DB | User will be notified that the inputted ID does not exist | Yes | <yes/no> |
| 3 | Try to input an alphabetic character/string or special character | User will be notified that this is an invalid input | Yes | <yes/no> |
| 4 | Try to input a book ID that already exists on wishlist | User will be notified that the book already exists on wishlist | Yes | <yes/no> |
| 5 | Input a book ID that is not on wishlist and verify results | Book will successfully be added to user’s wishlist which can be verified by running the Show Wishlist command | Yes | <yes/no> |
| **Comments** | Validation and Addition capability checks out. It may be a good idea to inform the user of the book name associated with the ID they entered as this may improve user understanding of the program flow. | | | |