Black-box testing

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| --- | --- | --- | --- | --- | --- |
| Test Case ID | Test Case | Input | Expected Output | Observed Output | Status |
| 1 | Add item | 1 | Prompt to choose an item type | Prompt to choose an item type | Pass |
|  |  | 2 | Prompt to enter an item ID | Prompt to enter an item ID | Pass |
|  |  | 8 | Error message and re-prompt for input | Error message and re-prompt for input | Pass |
|  |  | 0 | Pass |
|  |  | -3 | Pass |
|  |  | g | Pass |
| 2 | Choose item type to add | @ | Error message and re-prompt for input | Error message and re-prompt for input | Pass |
|  |  | j | Pass |
|  |  | 9.0 | Pass |
|  |  |  |  |  |  |
| 3 | Choose item type to add | 1 | User is prompted to input information about a CD | User is prompted to input information about a CD | Pass |
|  |  | 2 | User is prompted to input information about a Vinyl | User is prompted to input information about a Vinyl | Pass |
|  |  | h | Error message and re-prompt for input | Error message and re-prompt for input | Pass |
|  |  | 5 | Pass |
|  |  | -3 | Pass |
|  |  | # |  |
|  |  |  |  |  |  |
| 4 | Enter Date | 32/1/2019 | Day is set to 1  Date entered is: 1/1/2019 | Day is set to 1  Date entered is: 1/1/2019 | Pass |
|  |  | 31/1/2019 | Date entered is: 31/1/2019 | Date entered is: 31/1/2019 | Pass |
|  |  | 29/2/2019 | Day is set to 1 | Day is set to 1 | Pass |
|  |  | 29/2/2020 | Date entered is: 29/2/2020 | Date entered is: 29/2/2020 | Pass |
| 5 | Enter day OR month OR year of date | 7.6 | Display Error message and re-prompt for input | Display Error message and re-prompt for input | Pass |
|  |  |  |  |  |  |
| 6 | Buy item | 7, No | Display total cost | Display total cost | Pass |
| 7 | Choose number of copies to buy | 3.0 | Display Error message | Display Error message | Pass |
|  |  | 3 | Display total cost | Display total cost | Pass |
|  |  |  |  |  |  |
| 8 | Generate file upon purchase | Item ID = 7,  No. of copies= 2 | Write item ID =7, title, price, copies, total cost and selling date/time in the specified file | Write item ID =7, title, price, copies, total cost and selling date/time in the specified file | Pass |
|  |  |  |  |  |  |
| 9 | Search item in GUI by title | Hello | Display all information relevant to this item in the table, if available in store | Display all information relevant to this item in the table, if available in store | Pass |

White-box testing

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| --- | --- | --- |
| Test ID | Test Case | Status |
| 1 | The cloud database gets connected to the program when the program starts. | Pass |
| 2 | Import items saved in the database, when the program starts | Pass |
| 3 | Display main menu | Pass |
| 4 | Prompt user to choose an option from the main menu | Pass |
| 5 | Add item option prompts the user to choose the type of the item to be added | Pass |
| 6 | If CD type was chosen to be added; item ID, title, genre, release date, artist, price and duration are prompted sequentially | Pass |
| 7 | If Vinyl type was chosen to be added; item ID, title, genre, release date, artist, price, speed and diameter are prompted sequentially | Pass |
| 8 | When an item is added to the system, its information gets saved in the cloud database as a document (noSQL – MongoDB Atlas) | Pass |
|  |  |  |
| 9 | Once the chosen task is completed, the main menu is re-prompted | Pass |
|  |  |  |
| 10 | Delete item option prompts the user to enter an item ID that the user requires to delete | Pass |
| 11 | If item ID entered is of an item in store, all the information related to the item gets deleted from the system and the cloud database (MongoDB Atlas) | Pass |
| 12 | Whenever an item is added to/ deleted from the system, the number of free spaces left in the store is displayed | Pass |
|  |  |  |
| 13 | Print list of items option displays all the items in store with their item IDs, types and titles in a table format. | Pass |
| 14 | Sort items option sorts the stored items in ascending order of title and saves all the items in this order | Pass |
| 15 | When printing the list of items/ displaying them in the GUI, items are displayed in the sorted order, after sort items option is chosen. | Pass |
| 16 | Whenever new items are added, they are added to the end of these tables |  |
|  |  |  |
| 17 | Buy item option prompts the user to enter an item ID of the item that the user desires to purchase | Pass |
| 18 | If the item that the user requests exists in store, the user is prompted whether more than one copy of the item chosen is required | Pass |
| 19 | If the user chooses to buy more than one item, the number of required copies is prompted | Pass |
| 20 | Once the user enters the number of copies required, the total cost of all purchased items is calculated and displayed | Pass |
|  |  |  |
| 21 | When a purchase is completed through the buy item option, a report is generated in file. | Pass |
| 22 | The title, item ID, price, total cost, selling date/time are saved in the file generated upon completion of purchase. | Pass |
|  |  |  |
| 23 | If the item ID entered in delete item and buy item options isn’t found in the system, the user is notified that there’s no such item in store. | Pass |
|  |  |  |
| 24 | Open GUI option opens the Graphical User Interface in a separate window | Pass |
| 25 | All the information of the items in store are displayed in a JavaFX table component format | Pass |
| 26 | Items can be searched by Title in a search box displayed in the GUI | Pass |
| 27 | When Reset button is clicked in the GUI, all the items in store are displayed in the table and the search field is emptied | Pass |
|  |  |  |
| 28 | If the user tries to enter more than 1000 items, the system notifies the user that there’re no available spaces to store new items | Pass |
| 29 | Exit program option in the main menu, ends the program | Pass |