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CSC 2100

## FINAL PROJECT TEST PLAN

```
"C:\Users\muhtacin\Desktop\New folder (4)\cscproject\bin\Debug\cscproject.exe"
Welcome to our Library, Catalog has been loaded from Catalog.txt
-----
1: Search Catalog
2: Add a new item
3: Check Out Item
4: Return Item
5: Save Catalog
6: Exit
Please choice an option above Option: _
```

Upon running the application this menu comes up only if the file Catalog.txt is in the directory which loads five books, journals, and magazines into each vector.

```
"C:\Users\muhtacin\Desktop\New folder (4)\cscproject\bin\Debug\cscproject.exe"
ERROR!
Application will not run
Library Catalog could not be loaded
Please make sure the file is in right directory

Process returned 1 (0x1)   execution time : 0.135 s
Press any key to continue.
_
```

If file Catalog.txt is not in right directory or if the filename is incorrect the following messages will show and the application will terminate. You can fix this issue by following the messages prompted to the user.

```
Please choice an option above Option: 1
Enter 1 to search catalog by name
Enter 2 to search catalog by Books, Journals, or Magazines
Enter 3 to search catalog for book by author name
Enter 4 to display the whole catalog
Choice: 2

Enter B for Books
Enter M for Magazine
Enter J for Journals
Choice: B

Item 1
-----
Name: For whom the Bell Tolls
Author name: Ernest Hemingway
ID: 121
Status: Checked In

Item 2
-----
Name: Kurukku
Author name: Faustina Bama
ID: 122
Status: Checked In

Item 3
-----
Name: Animal Farm
Author name: George Orwell
ID: 123
Status: Checked In

Item 4
-----
Name: Allahabad Prasasti
Author name: Harisen
ID: 124
Status: Checked In

Item 5
-----
Name: Principia
Author name: Issac Newton
ID: 125
Status: Checked In
```

**OPTION 1:** This is the option to search the catalog. In this screenshot, I search the catalog by books. It displays each book and the following information of the author name, id, and the status if it is checked in.

```
Please choice an option above Option: 2

Which type of item do you want to add?
Enter B to add a Book
Enter M to add a Magazine
Enter J to add a Journals
Choice: B

Enter the name of the Book: Harry Potter
Enter the name of the author: J.K Rowling
Enter the id for this Book: 145

Book has been added
```

**OPTION 2:** This option is to add an item. In the screenshot above, I add a Book by choosing the B option. It prompts me to include the name of the book, the author, and the id of this book. The book's name in this case is Harry Potter, the author is J.K Rowling, and the id is 145. Since it is a new book that we are adding the status of it is automatically is set to true which indicates that it is checked in.

```

Please choice an option above Option: 3
Please input the Id of Item to checkOut.

Enter 1 to search catalog by name
Enter 2 to search catalog by Books, Journals, or Magazines
Enter 3 to search catalog for book by author name
Enter 4 to display the whole catalog
Choice: 2

Enter B for Books
Enter M for Magazine
Enter J for Journals
Choice: B

Item 1
-----
Name: For whom the Bell Tolls
Author name: Ernest Hemingway
ID: 121
Status: Checked In

Item 2
-----
Name: Kurukku
Author name: Faustina Bama
ID: 122
Status: Checked In

Item 3
-----
Name: Animal Farm
Author name: George Orwell
ID: 123
Status: Checked In

Item 4
-----
Name: Allahabad Prasasti
Author name: Harisen
ID: 124
Status: Checked In

Item 5
-----
Name: Principia
Author name: Issac Newton
ID: 125
Status: Checked In

Item 6
-----
Name: Harry Potter
Author name: J.K Rowling
ID: 145
Status: Checked In

Enter the id of the item: 145
Item has been successfully checked out.

```

**OPTION 3:** This option is the checkout function which asks for the id of the item. This id is found using the search function. After locating the id to any item that id is entered and the following item is checked out to the user and the status of the item is changed to false. In the above screenshot, I checkout the Harry Potter book with the id number 145. When successful the following message of “Item has been successfully checked out” is shown.

```
1: Search Catalog
2: Add a new item
3: Check Out Item
4: Return Item
5: Save Catalog
6: Exit

Please choice an option above Option: 4
Please input the Id of Item to return.

Enter 1 to search catalog by name
Enter 2 to search catalog by Books, Journals, or Magazines
Enter 3 to search catalog for book by author name
Enter 4 to display the whole catalog
Choice: 1

Enter name of the item
Choice: Harry Potter

Item has been found
-----
Name: Harry Potter
Author name: J.K Rowling
ID: 145
Status: Checked Out

Enter the id of the item: 145
Item has been successfully returned.
```

**OPTION 4:** This option is the return function which asks for the id of the item. This id is found using the search function. After locating the id to any item that id is entered and the following item the status of item is changed to true which indicates it has been checked in and is available in our catalog. In the above screenshot, I checkout the Harry Potter book with the id number 145. When successful the following message of “Item has been successfully checked out” is shown.

```
1: Search Catalog
2: Add a new item
3: Check Out Item
4: Return Item
5: Save Catalog
6: Exit
```

```
Please choice an option above Option: 5
Data has been saved to Catalog.txt
```

---

```
Book,For whom the Bell Tolls,1,121,Ernest Hemingway
Book,Kurukku,1,122,Faustina Bama
Book,Animal Farm,1,123,George Orwell
Book,Allahabad Prasasti,1,124,Harisen
Book,Principia,1,125,Issac Newton
Book,Harry Potter,1,145,J.K Rowling
Magazine,Sports Illustrated,1,221,221
Magazine,Vanity Fair,1,222,222
Magazine,Cosmopolitan,1,223,223
Magazine,Airliners,1,224,224
Magazine,Sentimentalist Magazine,1,225,225
Journal,Probability Theory and Related Fields,1,331,1
Journal,Computer Networks,1,332,8
Journal,ICGA Journal,1,333,89
Journal,The Imaging Science Journal,1,334,34
Journal,Journal of Cases on Information Technology,1,345,36
```

**OPTION 5 :** This option is the save function. This function saves every book, magazine, and journal to the Catalog.txt file. So if the user adds any new item they will be available to see it in the catalog.txt file. For example, I added the Harry Potter book so it now appears in my Catalog.txt file.

```
1: Search Catalog
2: Add a new item
3: Check Out Item
4: Return Item
5: Save Catalog
6: Exit
```

```
Please choice an option above Option: 6
```

```
Thank you, come again!
```

```
Process returned 0 (0x0)    execution time : 1.369 s
Press any key to continue.
```

**OPTION 6:** This option will exit the program.