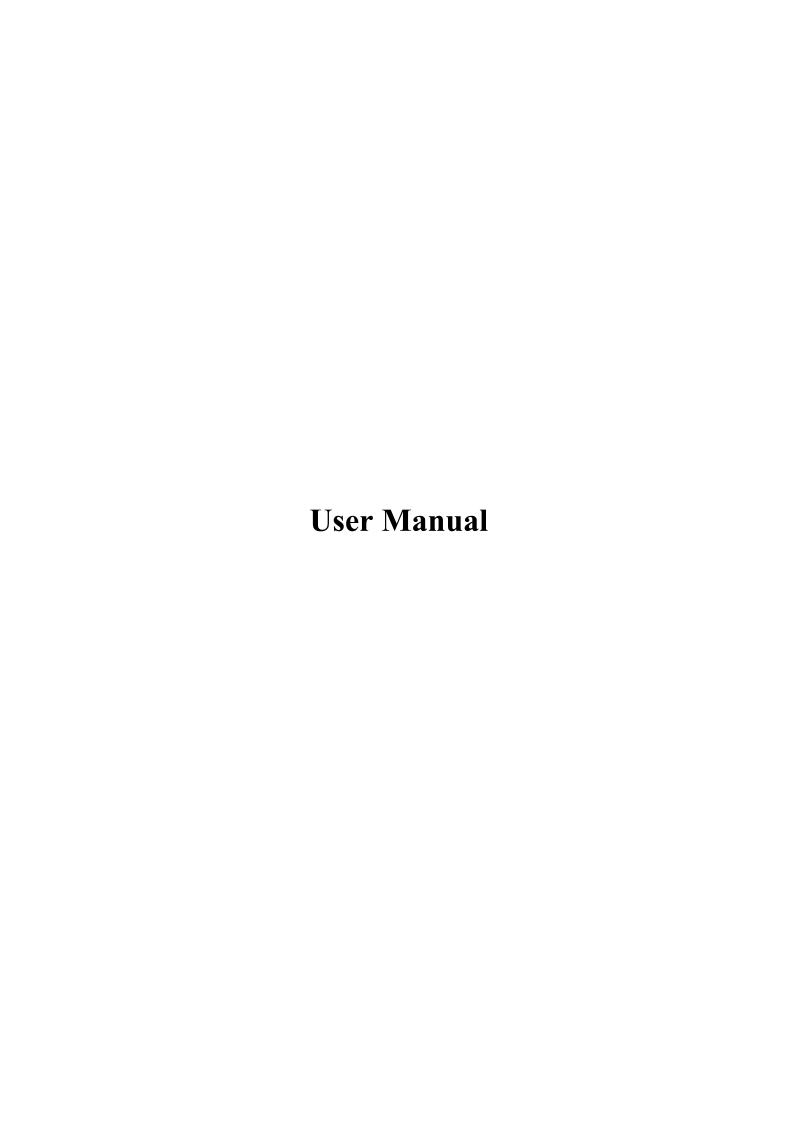
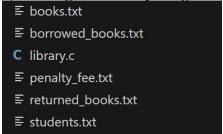
# User Manual & Test Case Result Library Management System by Kan Man Heen (20608314)



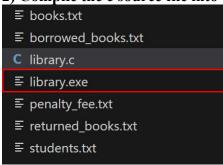
# 1. Getting Started

#### 1) Making Sure Everything Is installed



Make sure the above txt and c source file are installed and opened in your folder.

#### 2) Compile the c source file into exe file



Compile the library.c source file into library.exe for it to be runned.

# 2. Log In Page

Enter a number associated to log in as Student or Staff or exit the library management system.

2.1. Login as a Student (Press 1 and Enter)

```
Log in to your student account
ID: 4829137
Name: Emma
```

After entering 1 and waiting for 1 second, you will be prompted to the Student Log In Page, where you need to enter your student ID and name.

Student ID and Name Listed below:

| Student ID | Student Name | Student ID | Student Name |
|------------|--------------|------------|--------------|
| 4829137    | Emma         | 9362458    | Jackson      |
| 7650248    | Liam         | 2103746    | Ava          |
| 3098715    | Olivia       | 6548201    | Lucas        |
| 5246893    | Noah         | 3784926    | Isabella     |
| 1875032    | Sophia       | 5018367    | Aiden        |

2.2. Login as a Staff (Press 2 and Enter)

```
Log in to staff account
ID : 12345
Password : Admin
```

After entering 2 and waiting for 1 second, you will be prompted to the Staff Log In Page, where you need to enter staff ID (12345) and Password (Admin).

#### 2.3. Exit Library Management System (Press 3 and Enter)

Thank you for using the Library Management System. Have a great day and happy reading!

After entering 2 and waiting for 1 second, you will have exited the Library Management System.

# 3. Student Main Page

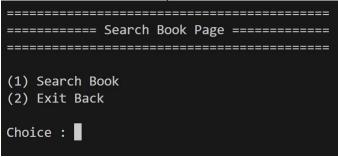
After entering the correct associated student ID and name, you will be prompted to the Student Main Page.

# 4. Staff Main Page

```
(1) Search Books
(2) Student Borrow Book
(3) Student Return Book
(4) Display All Books
(5) Calculate Late Return Fee
(6) Generate Monthly Report
(7) Log Out
What would you like to do today?
Choice :
```

After entering the correct staff ID and Password, you will be prompted to the Staff Main Page.

# 5. Search Book (Student/Librarian)



Entering the Search Book Page, you will be instructed to enter 1 to Search Book or 2 to Exit Back.

#### **Instructions:**

1) Enter correct ISBN for the associated book and press enter.

- 2) If found book, the title, author, ISBN, year of publication, total copies and total copies available for borrow will be displayed on the terminal.
- 3) After searching, you can choose to search another book or Exit Back.

6. Borrow Book (Librarian)

Entering the Borrow Book Page, you will be instructed to enter 1 to Student Book Book or 2 to Borrow Book Record or 3 to Exit Back.

#### 6.1. Student Borrow Book (Press 1 and Enter)

1) After entering 1 on the Borrow Book Page, enter the associated Student ID (Student Borrowing) and Borrow Book ISBN.

#### 6.2. Borrow Book Record (Press 2 and Enter)

1) After entering 2 on the Borrow Book Page, the newest entry for the information of the borrowed book will be available.

Book 3: ====== Borrow Book Record ======== Student ID: 2103746 \_\_\_\_\_\_ Student Name : Ava ISBN: 9781603090742 Book 1: Title: The Underwater Welder Student ID: 5246893 Borrowed Date: 2023-11-30 Student Name : Noah ISBN: 9781603094672 Book 4: Title: Kodi Student ID: 7650248 Borrowed Date: 2023-11-20 Student Name : Liam ISBN: 9781603094917 Book 2: Title: Monster on the Hill Student ID: 1875032 Borrowed Date: 2023-11-30 Student Name : Sophia ISBN: 9781612680019 Enter once to exit back Title: Rich Dad Poor Dad Borrowed Date: 2023-11-15

# 7. Returned Book (Librarian)

Entering the Return Book Page, you will be instructed to enter 1 to Student Return Book or 2 to Return Book Record or 3 to Exit Back.

#### 7.1. Student Return Book (Press 1 and Enter)

1) After entering 1 on the Return Book Page, enter the associated Student ID (Student Borrowing) and Borrowed Book ISBN. System will collect penalty fee if student returns the book latter than 5 days.

#### 7.2. Return Book Record (Press 2 and Enter)

1) After entering 2 on the Return Book Page, the newest entry for the information of the borrowed book will be available.

```
====== Return Book Record ========
                                          Book 3:
_____
                                          Student ID: 1875032
Book 1:
                                          Student Name : Sophia
Student ID: 7650248
Student Name : Liam
                                          ISBN: 9781612680019
ISBN: 9781603094894
Title: Onion Skin
                                          Title: Rich Dad Poor Dad
Returned Date: 2023-11-28
                                          Returned Date: 2023-11-30
Book 2:
Student ID: 9362458
Student Name : Jackson
                                          Enter once to exit back
ISBN: 9780307949493
Title: The Girl with the Dragon Tattoo
Returned Date: 2023-11-28
```

# 8. Display All Books (Students/Librarian)

```
====== Display Book Page ========
                                               Title of Book: Rich Dad Poor Dad
Author of Book : Kiyosaki Robert T
                                               ISBN of Book : 9781612680019
                                               Year of Publication of Book : 2017
Title of Book : All About Danny
                                               Total copies of Book : 5
Author of Book : Mia Coulton
                                               Total copies available for borrow of Book : 5
ISBN of Book: 9780972029537
Year of Publication of Book : 1975
                                               7)
Total copies of Book : 5
                                               Title of Book : Rivers
Total copies available for borrow of Book : 5
                                               Author of Book : Cassandra Moon
                                               ISBN of Book : 7890123456
                                               Year of Publication of Book: 2015
Title of Book : Junkwraith
                                               Total copies of Book: 5
Author of Book : Ellinor Richey
                                               Total copies available for borrow of Book : 5
ISBN of Book: 9781603095006
Year of Publication of Book : 2022
Total copies of Book : 5
                                               Title of Book : The Fun Family
Total copies available for borrow of Book : 5
                                               Author of Book : Benjamin Frisch
                                               ISBN of Book: 9781603093446
3)
                                               Year of Publication of Book : 2021
Title of Book : Kodi
                                               Total copies of Book: 5
Author of Book : Jared Cullum
                                               Total copies available for borrow of Book : 5
ISBN of Book : 9781603094672
Year of Publication of Book : 2020
Total copies of Book : 5
                                               Title of Book : The Girl with the Dragon Tattoo
Total copies available for borrow of Book : 4
                                               Author of Book : Stieg Larsson
                                               ISBN of Book: 9780307949493
4)
                                               Year of Publication of Book : 2003
Title of Book : Monster on the Hill
                                               Total copies of Book : 5
Author of Book : Rob Harrell
                                               Total copies available for borrow of Book : 5
ISBN of Book : 9781603094917
Year of Publication of Book : 2020
Total copies of Book : 5
                                               10)
                                               Title of Book : The Underwater Welder
Total copies available for borrow of Book: 4
                                               Author of Book : Jeff Lemire
                                               ISBN of Book: 9781603090742
Title of Book : Onion Skin
                                               Year of Publication of Book : 2007
Author of Book : Edgar Camacho
                                               Total copies of Book: 5
ISBN of Book: 9781603094894
                                               Total copies available for borrow of Book: 4
Year of Publication of Book: 2021
Total copies of Book : 5
                                               Enter once to exit back
Total copies available for borrow of Book : 5
```

Entering Display All Books Page, will display every books and its' information (title, author, ISBN, total copies, total copies available for borrow) in alphabetical order according to the title.

# 9. Calculate Late Return Fee (Students/Librarian)

Entering the Penalty Checker Page, you will be instructed to enter 1 to Penalty Checker or 2 to Exit Back.

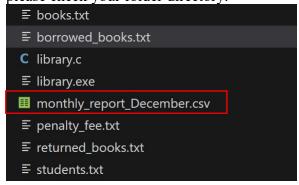
#### 9.1. Penalty Checker

1) After entering 1, enter the associated Student ID (Student Returning) and Borrowed Book ISBN. Late return fees (if latter than 5 days from Borrowed Date) will be calculated and display after the Found Borrowed Book details.

# 10. Generate Monthly Report (Librarian)

1) Generate Monthly Report by pressing 6

2) System will generate a monthly report (csv) according to the current monthly, please check your folder directory.



3) Open it with Microsoft Excel or WPS Office to view the report.

|    | •                                      | -               |                 |
|----|--|-----------------|-----------------|
| 1  | 2023 December Monthly Report           |                 |                 |
| 2  |  |                 |                 |
| 3  | Total Number Of Books Borrowed :       | 6               |                 |
| 4  | Student ID                             | ISBN            |                 |
| 5  | 5246893                                | "9781603094672" |                 |
| 6  |  | "9781603090742" |                 |
| 7  |  | "9781603094917" |                 |
| 8  |  | "9781603094894" |                 |
| 9  |  | "9780307949493" |                 |
| 10 | 1875032                                | "9781612680019" |                 |
| 11 |  |                 |                 |
| 12 | Total Number Of Books To Be Returned : | 3               |                 |
| 13 | Borrowed Date                          | Student ID      | ISBN            |
| 14 | 20/11/2023                             |                 | "9781603094672" |
| 15 | 30/11/2023                             |                 | "9781603090742" |
| 16 | 30/11/2023                             | 7650248         | "9781603094917" |
| 17 |  |                 |                 |
| 18 | Total Number Of Books Returned :       | 3               |                 |
| 19 | Returned Date                          | Student ID      | ISBN            |
| 20 | 28/11/2023                             |                 | "9781603094894" |
| 21 | 28/11/2023                             |                 | "9780307949493" |
| 22 | 30/11/2023                             | 1875032         | "9781612680019" |
| 23 |  |                 |                 |
| 24 | Total Penalty Collected :              | 23              | •               |
| 25 | Fine Date                              | Student ID      | Fines (RM)      |
| 26 | 28/11/2023                             | 7650248         | 3               |
| 27 | 30/11/2023                             | 1875032         | 10              |
| 28 | 30/11/2023                             | 1875032         | 10              |

# Test Case Result

**Student Log In** 

```
====== 2023-12-01 Welcome To Library ======

(1) Student
(2) Staff
(3) Exit

Choice : 1
```

# **Student Log In Page**

#### Case 1: Both ID and ISBN are Valid.

```
Log in to your student account
ID: 4829137
Name: Emma
```

#### Will directly log in

| ========= Student Main Page =========          |
|--|
|  |
| Hello Emma                                     |
| (1) Search Books                               |
| (2) Display All Books                          |
| (3) Calculate Late Return Fee                  |
| (4) Log Out                                    |
| What would you like to do today?<br>Choice : ■ |

#### Case 2: Either ID or ISBN or both is Invalid

| ======================================  | ======================================  |
|---|---|
| Log in to your student account ID : 4829137 Name : Liam   | Log in to your student account ID : 7650248 Name : Emma   |
| Student ID or Username incorrect. Would you like to try again?  Try Again(1) or Exit to main menu(2): | Student ID or Username incorrect. Would you like to try again?  Try Again(1) or Exit to main menu(2): |
| •   | Try Again(i) or exit to main menu(2) .  |

**Student Main Page** 

# Main Function Search Books

Case 1: Valid ISBN

#### **Case 2: Invalid ISBN**

# **Display All Books**

Case 1: Successfully display all books

```
Title of Book : Rich Dad Poor Dad
                                                  Author of Book : Kiyosaki Robert T
                                                  ISBN of Book : 9781612680019
                                                  Year of Publication of Book : 2017
Title of Book : All About Danny
                                                  Total copies of Book : 5
Author of Book : Mia Coulton
                                                  Total copies available for borrow of Book : 4
ISBN of Book: 9780972029537
Year of Publication of Book : 1975
Total copies of Book : 5
                                                  Title of Book : Rivers
Total copies available for borrow of Book : 5
                                                 Author of Book : Cassandra Moon
                                                  ISBN of Book : 7890123456
                                                  Year of Publication of Book : 2015
Title of Book : Junkwraith
                                                  Total copies of Book : 5
Author of Book : Ellinor Richey ISBN of Book : 9781603095006
                                                  Total copies available for borrow of Book : 5
Year of Publication of Book : 2022
Total copies of Book : 5
                                                  Title of Book : The Fun Family
Total copies available for borrow of Book : 5
                                                  Author of Book : Benjamin Frisch
                                                  ISBN of Book : 9781603093446
                                                  Year of Publication of Book : 2021
Title of Book : Kodi
                                                  Total copies of Book : 5
Author of Book : Jared Cullum
                                                  Total copies available for borrow of Book : 5
ISBN of Book : 9781603094672
Year of Publication of Book : 2020
Total copies of Book : 5
                                                 Title of Book : The Girl with the Dragon Tattoo
Total copies available for borrow of Book: 4
                                                  Author of Book : Stieg Larsson
                                                  ISBN of Book : 9780307949493
                                                  Year of Publication of Book : 2003
Title of Book : Monster on the Hill
                                                  Total copies of Book : 5
Author of Book : Rob Harrell
                                                  Total copies available for borrow of Book : 5
ISBN of Book : 9781603094917
Year of Publication of Book : 2020
Total copies of Book : 5
                                                 Title of Book : The Underwater Welder
Total copies available for borrow of Book : 5
                                                 Author of Book : Jeff Lemire
                                                  ISBN of Book: 9781603090742
                                                  Year of Publication of Book : 2007
Title of Book : Onion Skin
Author of Book : Edgar Camacho
ISBN of Book : 9781603094894
                                                  Total copies of Book : 5
                                                  Total copies available for borrow of Book : 4
Year of Publication of Book : 2021
                                                 Enter once to exit back
Total copies of Book : 5
Total copies available for borrow of Book : 5
```

#### Calculate Late Return Fee

#### Case 1: Valid Student ID and Borrowed Book ISBN (not latter than 5 days)

#### Case 2: Valid Student ID and Borrowed Book ISBN (latter than 5 days)

#### Case 3: Either Student ID or Borrowed Book ISBN or both invalid

| ======================================                 | ======================================                 |
|--|--|
| (1) Penalty Checker                                    | (1) Penalty Checker                                    |
| (2) Exit Back  | (2) Exit Back  |
| Choice : 1   | Choice : 1   |
| Student ID : 123213                                    | Student ID : 1875032                                   |
| Borrowed book ISBN : 9781603090742                     | Borrowed book ISBN : 11111111                          |
| No student ID or ISBN found in borrowed book database. | No student ID or ISBN found in borrowed book database. |

Log Out

Staff Log In

```
====== 2023-12-01 Welcome To Library ======

(1) Student
(2) Staff
(3) Exit

Choice : 2
```

# Staff Log In Page

Case 1: Both ID and ISBN are Valid.

```
Log in to staff account
ID : 12345
Password : Admin
```

Will directly log in

#### Case 2: Either ID or ISBN or both is Invalid

```
______
                                        ======== Staff Log In ========
======== Staff Log In =========
_____
                                        Log in to staff account
                                        Log in to staff account
ID: 12345
                                        ID: 678910
Password : Lmao
                                        Password : Admin
Staff ID or Password incorrect. Would you like to try again?
                                        Staff ID or Password incorrect. Would you like to try again?
Try Again(1) or Exit to main menu(2) :
                                        Try Again(1) or Exit to main menu(2) :
```

**Staff Main Page** 

# Main Function Search Books

Case 1: Valid ISBN

#### **Case 2: Invalid ISBN**

# **Student Borrow Book (Librarian)**

#### Case 1: Student ID and Book ISBN is Valid

#### New entries will be made into the borrowed book.txt

```
5246893
     5246893
                                    9781603094672
     9781603094672
                                4 2023-11-20
    2023-11-20
                                6 1875032
                                7 9781612680019
8 Rich Dad Poor Dad
    1875032
                                   2023-11-15
     9781612680019
    Rich Dad Poor Dad
                               11 2103746
    2023-11-15
                               12 9781603090742
13 The Underwater
                                    The Underwater Welder
                               14 2023-11-30
11 2103746
                               16 4829137
12 9781603090742
                                    9780307949493
     The Underwater Welder
                                    The Girl with the Dragon Tattoo
     2023-11-30
                               19 2023-12-01
```

| 57 | The Girl with the Dragon Tattoo | 57 | The Girl with the Dragon Tattoo |
|----|---------------------------------|----|---------------------------------|
| 58 | Stieg Larsson                   | 58 | Stieg Larsson                   |
| 59 | 9780307949493                   | 59 | 9780307949493                   |
| 60 | 2003                            | 60 | 2003                            |
| 61 | 5                               | 61 | 5                               |
| 62 | 5                               | 62 | 4                               |
|    |                                 |    |                                 |

Case 2: Total copies of book Unavailable

#### No copies of book available

```
1 All About Danny
2 Mia Coulton
3 9780972029537
4 1975
5 5
6 0
```

#### No new entries will be made into the borrowed book.txt

```
5246893
9781603094672
Kodi
2023-11-20
1875032
9781612680019
Rich Dad Poor Dad
2023-11-15
2103746
9781603090742
The Underwater Welder
2023-11-30
4829137
9780307949493
The Girl with the Dragon Tattoo
2023-12-01
```

#### Case 3: Either Student ID or Book ISBN or both is Invalid

====== Borrow Book Page ======== \_\_\_\_\_\_ (1) Student Borrow Book (2) Borrow Book Record (3) Exit Back Choice: 1 Student ID: 12345 Book ISBN: 9781603094894 Student ID or ISBN incorrect. Please try again.

# Check Borrow Book Record (Librarian)

```
Case 1: Newest Entries will be successfully displayed.
 ====== Borrow Book Record =======
 Book 1:
 Student ID: 5246893
 Student Name : Noah
 ISBN: 9781603094672
 Title: Kodi
 Borrowed Date: 2023-11-20
 Book 2:
 Student ID: 1875032
 Student Name : Sophia
 ISBN: 9781612680019
 Title: Rich Dad Poor Dad
 Borrowed Date: 2023-11-15
 Book 3:
 Student ID: 2103746
 Student Name : Ava
 ISBN: 9781603090742
 Title: The Underwater Welder
 Borrowed Date: 2023-11-30
 Book 4:
 Student ID: 4829137
 Student Name : Emma
 ISBN: 9780307949493
 Title: The Girl with the Dragon Tattoo
 Borrowed Date: 2023-12-01
 Enter once to exit back
```

# **Student Return Book (Librarian)**

~Will charge late return fee if book returned latter than 5 days from borrowed date.

#### Case 1: Student ID and Book ISBN is Valid (No Penalty)

System will not remind librarian to collect penalty fee from student.

```
_____
======== Return Book Page =========
(1) Student Return Book
(2) Return Book Record
(3) Exit Back
Choice: 1
Student ID: 4829137
Borrowed book ISBN: 9780307949493
Return successful! Remember to thank Emma for returning the book.
Enter once to exit back
```

The previous entry on borrowed book.txt will be removed.

```
5246893
                                    5246893
9781603094672
                                    9781603094672
Kodi
                                    Kodi
2023-11-20
                                    2023-11-20
1875032
9781612680019
                                    1875032
Rich Dad Poor Dad
2023-11-15
                                    9781612680019
                                    Rich Dad Poor Dad
2103746
                                    2023-11-15
9781603090742
The Underwater Welder
2023-11-30
                                    2103746
                                    9781603090742
4829137
                                    The Underwater Welder
9780307949493
The Girl with the Dragon Tattoo
                                    2023-11-30
2023-12-01
                               16
```

A new entry will be made into returned book.txt after successfully returning the book.

```
7650248
                                        9781603094894
9781603094894
                                        Onion Skin
Onion Skin
                                        2023-11-28
2023-11-28
                                        9780307949493
                                        The Girl with the Dragon Tattoo
9362458
                                       2023-11-28
9780307949493
The Girl with the Dragon Tattoo
                                        9780307949493
                                        The Girl with the Dragon Tattoo
                                        2023-12-01
```

Total copies available for borrow will be added back 1.

```
      57
      The Girl with the Dragon Tattoo
      57
      The Girl with the Dragon Tattoo

      58
      Stieg Larsson
      58
      Stieg Larsson

      59
      9780307949493
      59
      9780307949493

      60
      2003
      60
      2003

      61
      5
      61
      5

      62
      4
      62
      5
```

#### Case 2: Student ID and Book ISBN is Valid (Got Penalty)

System will remind librarian to collect penalty fee from student.

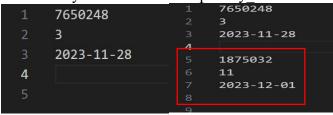
The previous entry on borrowed book.txt will be removed.

```
5246893
                                  5246893
     9781603094672
                                  9781603094672
     Kodi
                                  Kodi
     2023-11-20
                                  2023-11-20
     1875032
     9781612680019
                                  2103746
                             6
     Rich Dad Poor Dad
                                  9781603090742
     2023-11-15
                                  The Underwater Welder
     2103746
11
                                  2023-11-30
     9781603090742
     The Underwater Welder
     2023-11-30
```

A new entry will be made into returned\_book.txt after successfully returning the book.



A new entry will be made into penalty fee.txt to document collected fine.



Total copies available for borrow will be added back 1.

| 36 | Rich Dad Poor Dad | 36 | Rich Dad Poor Dad |
|----|-------------------|----|-------------------|
| 37 | Kiyosaki Robert T | 37 | Kiyosaki Robert T |
| 38 | 9781612680019     | 38 | 9781612680019     |
| 39 | 2017              | 39 | 2017              |
| 40 | 5                 | 40 | 5                 |
| 41 | 4                 | 41 | 5                 |

Case 3: Either Student ID or Borrowed Book ISBN or both is Invalid

# **Check Student Return Book Record (Librarian)**

====== Return Book Record ======== Book 1: Student ID: 7650248 Student Name : Liam ISBN: 9781603094894 Title: Onion Skin Returned Date: 2023-11-28 Book 2: Student ID: 9362458 Student Name : Jackson ISBN: 9780307949493 Title: The Girl with the Dragon Tattoo Returned Date: 2023-11-28 Book 3: Student ID: 4829137 Student Name : Emma ISBN: 9780307949493 Title: The Girl with the Dragon Tattoo Returned Date: 2023-12-01 Book 4: Student ID: 1875032 Student Name : Sophia ISBN: 9781612680019 Title: Rich Dad Poor Dad Returned Date: 2023-12-01 Enter once to exit back

### **Display All Books**

Case 1: Successfully display all books

```
______
                                               Title of Book : Rich Dad Poor Dad
====== Display Book Page ========
                                               Author of Book : Kiyosaki Robert T
                                               ISBN of Book: 9781612680019
                                               Year of Publication of Book: 2017
                                               Total copies of Book : 5
Title of Book : All About Danny
Author of Book : Mia Coulton
                                               Total copies available for borrow of Book: 5
ISBN of Book: 9780972029537
Year of Publication of Book : 1975
                                               Title of Book : Rivers
Total copies of Book : 5
Total copies available for borrow of Book : 5
                                               Author of Book : Cassandra Moon
                                               ISBN of Book: 7890123456
                                               Year of Publication of Book: 2015
Title of Book : Junkwraith
                                               Total copies of Book : 5
Author of Book : Ellinor Richey
                                               Total copies available for borrow of Book : 5
ISBN of Book : 9781603095006
Year of Publication of Book : 2022
Total copies of Book: 5
                                               Title of Book : The Fun Family
Total copies available for borrow of Book : 5
                                               Author of Book : Benjamin Frisch
                                               ISBN of Book: 9781603093446
                                               Year of Publication of Book : 2021
Title of Book : Kodi
                                               Total copies of Book : 5
Author of Book : Jared Cullum
                                               Total copies available for borrow of Book : 5
ISBN of Book : 9781603094672
Year of Publication of Book : 2020
Total copies of Book : 5
                                               Title of Book : The Girl with the Dragon Tattoo
Total copies available for borrow of Book : 4
                                               Author of Book : Stieg Larsson
                                               ISBN of Book: 9780307949493
                                               Year of Publication of Book: 2003
Title of Book : Monster on the Hill
                                               Total copies of Book: 5
Author of Book : Rob Harrell
                                               Total copies available for borrow of Book : 5
ISBN of Book : 9781603094917
Year of Publication of Book: 2020
                                               10)
Total copies of Book : 5
                                               Title of Book : The Underwater Welder
Total copies available for borrow of Book : 5
                                               Author of Book : Jeff Lemire
                                               ISBN of Book: 9781603090742
                                               Year of Publication of Book: 2007
Title of Book : Onion Skin
                                               Total copies of Book : 5
Author of Book : Edgar Camacho
                                               Total copies available for borrow of Book: 4
ISBN of Book: 9781603094894
Year of Publication of Book : 2021
                                               Enter once to exit back
Total copies of Book : 5
Total copies available for borrow of Book : 5
```

#### Calculate Late Return Fee

#### Case 1: Valid Student ID and Borrowed Book ISBN (not latter than 5 days)

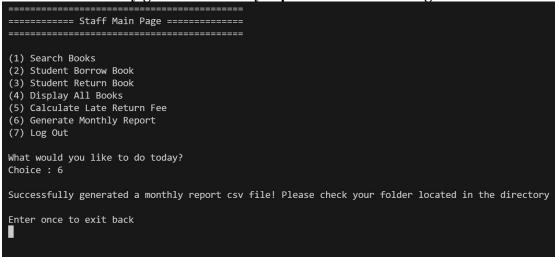
#### Case 2: Valid Student ID and Borrowed Book ISBN (latter than 5 days)

#### Case 3: Either Student ID or Borrowed Book ISBN or both invalid

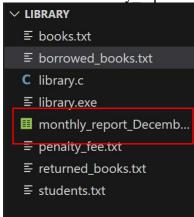
| ======================================                 | ======================================                 |
|--|--|
| (1) Penalty Checker                                    | (1) Penalty Checker                                    |
| (2) Exit Back  | (2) Exit Back  |
| Choice : 1   | Choice : 1   |
| Student ID : 123213                                    | Student ID : 1875032                                   |
| Borrowed book ISBN : 9781603090742                     | Borrowed book ISBN : 11111111                          |
| No student ID or ISBN found in borrowed book database. | No student ID or ISBN found in borrowed book database. |

# **Generate Monthly Report**

Case 1: Successfully generate monthly report csv file according to current month.



Generated a monthy report csv file.



Open With Microsoft Excel or WPS to display.

| 1  | 2023 December Monthly Report           | 1               |                 |
|----|--|-----------------|-----------------|
| 2  |  |                 |                 |
| 3  | Total Number Of Books Borrowed :       | 6               |                 |
| 4  | Student ID                             | ISBN            |                 |
| 5  | 5246893                                | "9781603094672" |                 |
| 6  | 2103746                                | "9781603090742" |                 |
| 7  | 7650248                                | "9781603094894" |                 |
| 8  | 9362458                                | "9780307949493" |                 |
| 9  | 4829137                                | "9780307949493" |                 |
| 10 | 1875032                                | "9781612680019" |                 |
| 11 |  |                 |                 |
| 12 | Total Number Of Books To Be Returned : | 2               |                 |
| 13 | Borrowed Date                          | Student ID      | ISBN            |
| 14 | 20/11/2023                             | 5246893         | "9781603094672" |
| 15 | 30/11/2023                             | 2103746         | "9781603090742" |
| 16 |  |                 |                 |
| 17 | Total Number Of Books Returned :       | 4               | <u></u>         |
| 18 | Returned Date                          | Student ID      | ISBN            |
| 19 | 28/11/2023                             |                 | "9781603094894" |
| 20 | 28/11/2023                             |                 | "9780307949493" |
| 21 | 1/12/2023                              | 4829137         | "9780307949493" |
| 22 | 1/12/2023                              | 1875032         | "9781612680019" |
| 23 |  |                 |                 |
| 24 | Total Penalty Collected (RM):          | 14              | 1               |
| 25 | Fine Date                              | Student ID      | Fines (RM)      |
| 26 | 28/11/2023                             | 7650248         | 3               |
| 27 | 1/12/2023                              | 1875032         | 11              |

# Log Out

#### Case 1: Log out successful

```
====== 2023-12-01 Welcome To Library ======

(1) Student
(2) Staff
(3) Exit

Choice :
```

# **Exit**

# Case 1: Exited Successfully.

Thank you for using the Library Management System. Have a great day and happy reading!

PS C:\Users\kanma\OneDrive\Desktop\Homework\Programming and Algorithms (COMP1028 UNMC)\Project\Assignment\Individual\Library>