

User Guide

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Project running environment configuration:

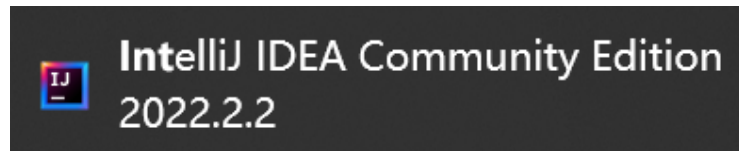
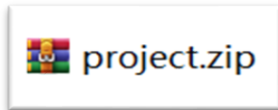
The following is about the operation of this project. Since the code volume of the project file is a bit large and the JAVA part contains many classes, it may be difficult to compile using the command line. Therefore, we strongly recommend that you use a compiler to run.

Next, we'll give you detailed instructions for running the project with the IntelliJ IDEA compiler step by step.

NOTE: Please confirm that you have a valid Oracle account and password and have uploaded the data provided by us.

(1) Document Preparation

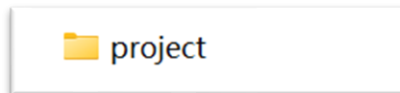
Make sure you have the correct project ZIP file and the IntelliJ IDEA compiler.



The ZIP file is the one we submit, and you can also download the compiler from website.

(2) Extract the file

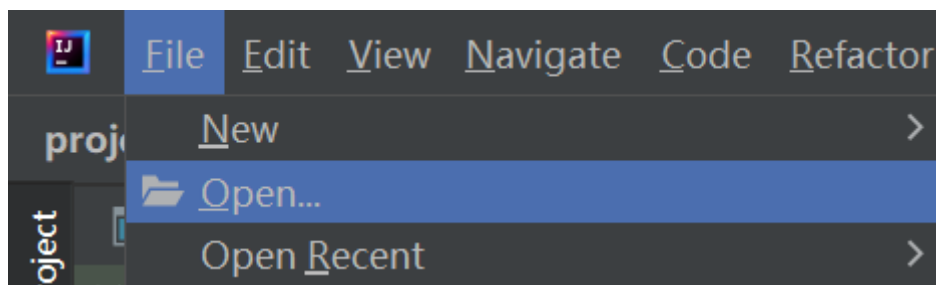
To run the code, you need to first extract the ZIP file to a location where it is easy to find. For example, Unzip the files to disk D.



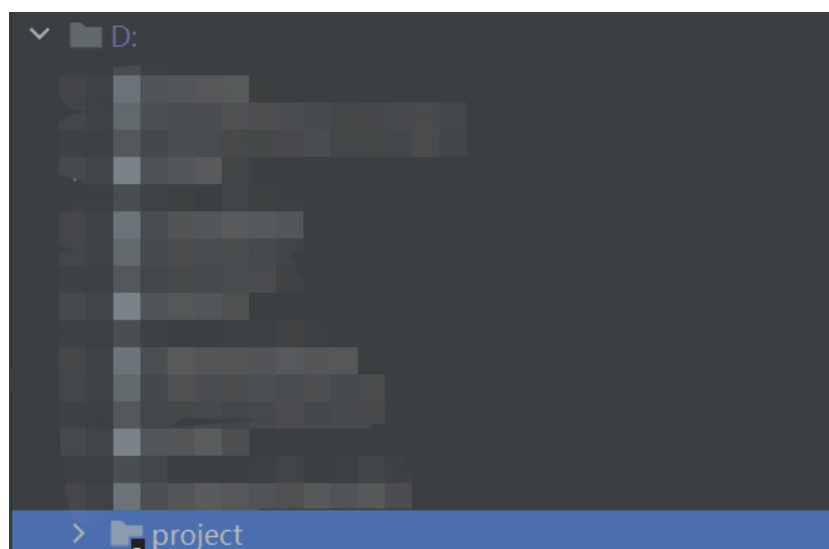
Make sure that you can find the file folder in the place you choose to extract.

(3) Use compiler to open the file.

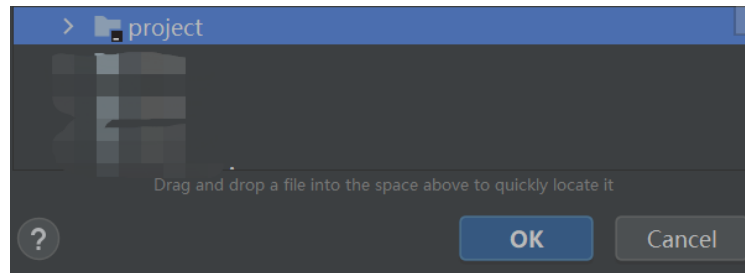
Run your compiler and find the "file" in the top left corner, click it and then click "Open" to open file choose list.



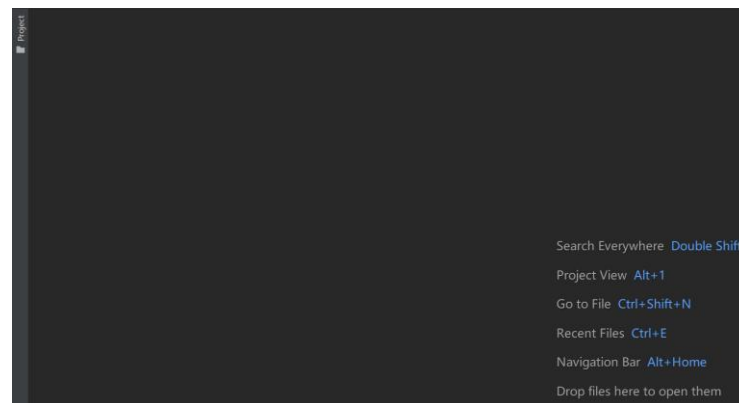
Find the project in the list.



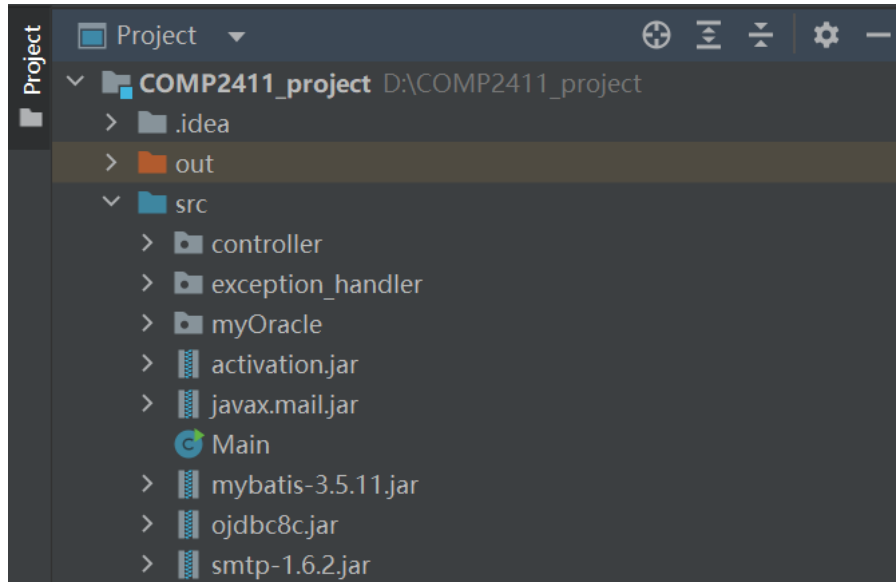
Click "OK" to open the file.



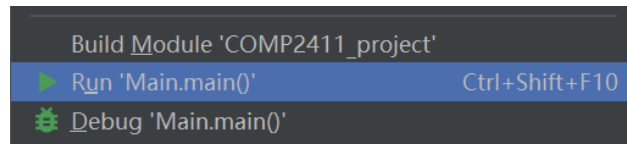
- (4) Find the main class and run the program
(Please configure the JAVA environment in advance)



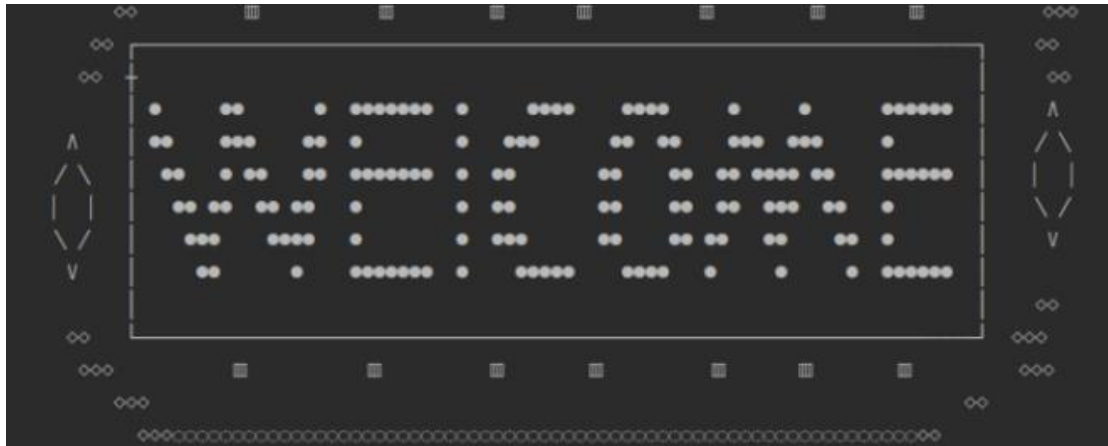
The first time you open the file, you will meet the screen showed above, here, you need to click “project” → “file name” → “src” → “Main”.



- (5) Execute the code
After you find the “Main” class, there are many methods to execute the program, for example, Right click “Main” and click “run Main.main()”. Wait a few moments, and after the program connects to the database, then the system will require you to input the Oracle account ID and the password. After the right input, the Welcome Page is displayed.



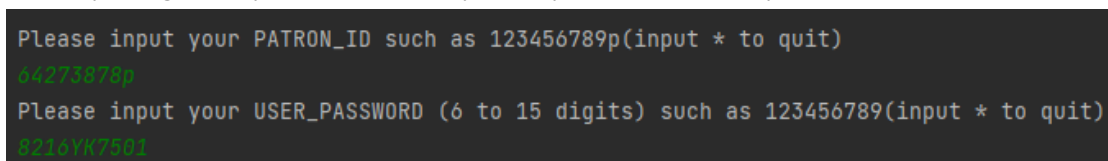
Welcome Page:



In this page, there are three functions, the user may choose the function by input the No. before it. (This is a user manual for patron, so it will display an example for log in as a patron)

- 0 --- quit the system
- 1 --- log in as a patron
- 2 --- sign up a patron account
- 3 --- log in as a staff

After inputting 1, the patron needs to input the patron ID, and the password.



Correct log in sample

Noticed that each time the system only gives the patron 3 attempt times to input the correct password, otherwise the user will quit the system automatically.

After the patron inputs the correct ID and password, he or she will enter the patron page.

After inputting 2, the patron needs to use the patron-id that the system has already given and create his/her own password, name, his or her gender, age, and the location.

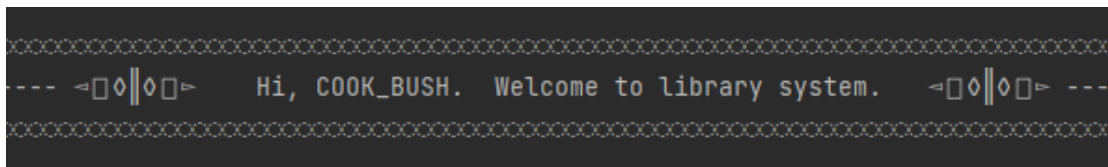
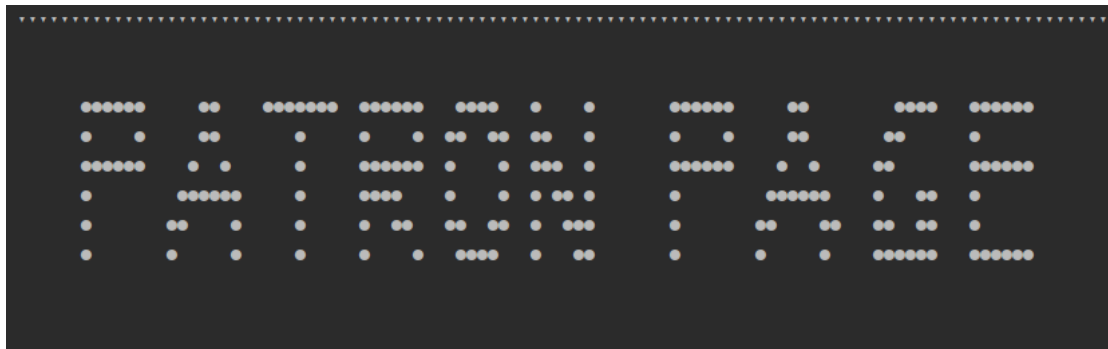
```

Please input your USER_PASSWORD (6 to 15 digits) such as 123456789(input * to quit)
123456789
Please input the your PATRON_NAME(1 to 30 characters) such as FRANKLIN(input * to quit)
Franklin
Please input your age such as 12(input * to quit)
12
Please input your E_MAIL(20 to 30 characters) such as 1234567@POLYU.EDU.HK(input * to quit)
1234567@POLYU.EDU.HK
Please input your GENDER such as (male/female)(input * to quit)
male
Do you want to input your address. That is optional! Enter 0--not input, 1--input
Enter a integer from 0 to 1
1
Please input your ADDRESS(1:50 characters) such as HONG HAM(input * to quit)
HK
Please input your PHONE such as 88888888(input * to quit)
88888888
Sccessfully sign up !

```

Sample of sign up

Patron Page:



patron page when log in

This is the patron log in page also the main menu, it will display 4 core functions and the notification list below. These pages will guide patron to do the operation in correct way.

[Core Function List]

```
Enter an integer to make the choose (enter 0 to quit):
```

```
1--search for book information / 2--borrow the book
```

```
3--return the book / 4-- reserve a book
```

In this page, patron can choose operation by input the match function No.:

- 0 --- return to log in page
- 1 --- search for book information
- 2 --- borrow the book

3 --- return the book

4 --- reserve a book

1. Search for book information

Under the search for book information function, there are three different operations. The following is the description of them.

0 --- return to function list

1 --- search by book name

2 --- search by ISBN

3 --- search by comprehensive condition

1.1 search by book name

```
input the BOOK_NAME (a string have 1 to 50 characters e.g. Harry Potter):[input * quit]
BIG_CUCUMBER
The information of book BIG_CUCUMBER are as follows
BOOK_INFORMATION
  ISBN          BOOKNAME          AVAILABLE_COPY  CATEGORY          AUTHOR_NAME
(1)-----
  9365827626587  BIG_CUCUMBER          1              HORROR            LILY_BLACK
```

Search sample

In the function, patron can search the book information by input book name. For example, input "BIG_CUCUMBER", the information includes ISBN, BOOK_NAME, AVAILABLE_COPY, CATEGORY, AUTHOR_NAME, PUBLISHETR, LANGUAGE, PUBLISH_TIME, DESCRIPTION will display as a list below. (The sample only cover a few of the information)

If the system has multiple books with same book name but different ISBN, it will display a list of books.

```
input the BOOK_NAME (a string have 1 to 50 characters e.g. Harry Potter):[input * quit]
HARRY_POTTER_7
The information of book HARRY_POTTER_7 are as follows
BOOK_INFORMATION
  ISBN          BOOKNAME          AVAILABLE_COPY  CATEGORY          AUTHOR_NAME
(1)-----
  9787810441063  HARRY_POTTER_7          3              TEENAGER_FANTASY  J_K_ROLIN
(2)-----
  2475947892847  HARRY_POTTER_7          0              TEENAGER_FANTASY  J_K_ROLIN
(3)-----
  8573692876859  HARRY_POTTER_7          0              TEENAGER_FANTASY  J_K_ROLIN
(4)-----
  4298748728748  HARRY_POTTER_7          0              TEENAGER_FANTASY  J_K_ROLIN
```

Search sample

After the search, the patron can directly borrow or reserve the book here:

1 --- go to borrow or reserve the book

0 --- quit the early stage

```
Do you want to borrow or reserve a book from these books? 1--yes, 0--no
Enter a integer from 0 to 1
```

prompt message

1.2 search by ISBN

```

input the ISBN (a string with 13 number character e.g. 1234567890123):[input * quit]
9787810441063
The information of book with ISBN 9787810441063 are as follows
BOOK_INFORMATION
  ISBN          BOOKNAME          AVAILABLE_COPY  CATEGORY          AUTHOR_NAME
(1)-----
  9787810441063  HARRY_POTTER_7          3              TEENAGER_FANTASY  J_K_ROLIN

```

Search sample

In the function, patron can search the book information by input ISBN. For example, input a string with 13 number character “9787810441063”, the information includes ISBN, BOOK_NAME, AVAILABLE_COPY, CATEGORY, AUTHOR_NAME, PUBLISHER, LANGUAGE, PUBLISH_TIME, DESCRIPTION will display as a list below. (The sample only cover a few of the information)

After the search, the patron can directly borrow or reserve the book here:

1 --- go to borrow or reserve the book

0 --- quit the early stage

```

Do you want to borrow or reserve a book from these books? 1--yes, 0--no
Enter a integer from 0 to 1

```

prompt message

1.3 search by comprehensive condition

```

Your requirement: books that (Author name contains J_K_ROLIN) OR (Author name contains BENJAMIN_LUCAS) AND (Publish time between 1899-09-09 and 2022-11-19)
The books which meet your requirement are as follows
BOOK_INFORMATION
  ISBN          BOOKNAME          AVAILABLE_COPY  CATEGORY          AUTHOR_NAME          PUBLISHER          LANGUAGE
(1)-----
  4641233494645  STAR_WARS          0              SCIENCE_FICTION  BENJAMIN_LUCAS      USA_CENTRAL_PUBLISHER  SPANISH
(2)-----
  7231648727464  STAR_WARS          0              SCIENCE_FICTION  BENJAMIN_LUCAS      USA_CENTRAL_PUBLISHER  SPANISH
(3)-----
  8573692876859  HARRY_POTTER_7     0              TEENAGER_FANTASY  J_K_ROLIN           U_K_PUBLISHER         ENGLISH
(4)-----
  4298748728748  HARRY_POTTER_7     0              TEENAGER_FANTASY  J_K_ROLIN           U_K_PUBLISHER         ENGLISH
(5)-----
  9787810441063  HARRY_POTTER_7     3              TEENAGER_FANTASY  J_K_ROLIN           U_K_PUBLISHER         ENGLISH
(6)-----
  5738715782577  STAR_WARS          5              SCIENCE_FICTION  BENJAMIN_LUCAS      USA_CENTRAL_PUBLISHER  SPANISH
(7)-----
  2475947892847  HARRY_POTTER_7     0              TEENAGER_FANTASY  J_K_ROLIN           U_K_PUBLISHER         ENGLISH
(8)-----
  8723657843675  STAR_WARS          0              SCIENCE_FICTION  BENJAMIN_LUCAS      USA_CENTRAL_PUBLISHER  SPANISH
Leave search by comprehensive condition

```

Search sample

(Comprehensive condition: books from J_K_ROLIN or BENJAMIN_LUCAS and time from 1899-09-09 and 2022-11-19)

Like the sample display above, patron can search information by comprehensive condition each link with “and” or “or”. The search by comprehensive condition function supports combining 6 different conditions (book name, publisher, language, category, publish time) to find the book. For book name and author name they are special, patron only need to input part of them then it can select those book name/author name, which contains the string that you have input.

After the search, the patron can directly borrow or reserve the book here:

1 --- go to borrow or reserve the book

0 --- quit the early stage

```
Do you want to borrow or reserve a book from these books? 1--yes, 0--no
Enter a integer from 0 to 1
```

prompt message

2. Borrow the book

Under the borrow book function, we have three different operations. The following is the description of them.

- 0 --- return to function list
- 1 --- borrow by ISBN
- 2 --- borrow by book name

2.1 borrow by ISBN

```
input the ISBN (a string with 13 number character e.g. 1234567890123):[input * quit]
9787810441063
The information of book with ISBN 9787810441063 are as follows
BOOK_INFORMATION
  ISBN          BOOKNAME          AVAILABLE_COPY  CATEGORY          AUTHOR_NAME
(1)-----
  9787810441063  HARRY_POTTER_7          3              TEENAGER_FANTASY  J_K_ROLIN
Are you sure to choose book HARRY_POTTER_7? 1--yes 0 no
Enter a integer from 0 to 1
1
Your reserve for this book have finished.
Successfully borrow the book.
```

Borrow sample

In the function, patron can search the book information by input ISBN. For example, input a string with 13 number character "9787810441063", the information includes ISBN, BOOK_NAME, AVAILABLE_COPY, CATEGORY, AUTHOR_NAME, PUBLISHETR, LANGUAGE, PUBLISH_TIME, DESCRIPTION will display as a list below. (The sample only cover a few of the information).

Patron can do the confirm to ensure the borrow operation.

- 1 --- confirm to borrow the book
- 0 --- give up borrowing the book

2.2 borrow by BOOK_NAME


```

input the BOOK_NAME (a string have 1 to 50 characters e.g. Harry Potter):[input * quit]
STAR_WARS
The information of book STAR_WARS are as follows
BOOK_INFORMATION
  ISBN          BOOKNAME          AVAILABLE_COPY  CATEGORY          AUTHOR_NAME
(1)-----
  57387T5782577  STAR_WARS          4              SCIENCE_FICTION  BENJAMIN_LUCAS
(2)-----
  7231648727464  STAR_WARS          0              SCIENCE_FICTION  BENJAMIN_LUCAS
(3)-----
  8723657843675  STAR_WARS          0              SCIENCE_FICTION  BENJAMIN_LUCAS
(4)-----
  4641233494645  STAR_WARS          0              SCIENCE_FICTION  BENJAMIN_LUCAS
Enter the index (start from 1)of book that you want. If you want to cancel the borrow, enter 0.
Enter a integer from 0 to 4
1
Successfully borrow the book.

```

Borrow sample

In the function, patron can search the book information by input book name. For example, input "BIG_CUCUMEMBER", the information includes ISBN, BOOK_NAME, AVAILABLE_COPY, CATEGORY, AUTHOR_NAME, PUBLISHETR, LANGUAGE, PUBLISH_TIME, DESCRIPTION will display as a list below. (The sample only cover a few of the information)

After the system list out the books, patron can input "X" to choose the book in the "X" line. For example, in the picture above, input "1" to choose "Star-war" in the first line, input "0" to quit.

3. Return the book

```

..... You have 2 in progress borrow. ....
1, book name: STAR_WARS  book id: 374628376479283  start from 2022-11-19
2, book name: NARNIA_LEGEND_2  book id: 819427981847657  start from 2022-11-19
Please enter the index(start from 1) of book that you want to return. Enter 0 to cancel this operation
Enter a integer from 0 to 2

```

This function will first display all the books the patron has borrowed, patron is allowed to input the index to return it. After the return, the patron can still return more books.

For example, in the picture display above, the patron can input:

0 --- return to function list

1 --- return "star-wars"

2 --- return "Narnia-legend-2"

After all the book is already return, a reminder sentence will display on the screen.

```

All the books have been returned.

Leave return book

```

Remind sentence

4. Reserve the book

Under function of reserve the book, there are three different operations. The following is the description of them.

- 0 --- return to function list
- 1 --- reserve by ISBN
- 2 --- reserve by book name

4.1 reserve by ISBN

In this function, the patron can input an ISBN to make the reserve, after inputting the ISBN, the function will list out the available reservations, (information contain: ISBN, BOOK_NAME, AVAILABLE_COPY, CATEGORY, AUTHOR_NAME, PUBLISHER, LANGUAGE, PUBLISH_TIME, DESCRIPTION.) the patron will see the record when he or she logs in and will create a new record in the system.

```
input the ISBN (a string with 13 number character e.g. 1234567890123):[input * quit]
9787810441063
The information of book with ISBN 9787810441063 are as follows
BOOK_INFORMATION
  ISBN          BOOKNAME          AVAILABLE_COPY  CATEGORY          AUTHOR_NAME          PUBLISHER
(1)-----
  9787810441063  HARRY_POTTER_7          2              TEENAGER_FANTASY  J_K_ROLIN            U_K_PUBLISHER
Are you sure to choose book HARRY_POTTER_7? 1--yes 0 no
Enter a integer from 0 to 1
1
We will lock the copy for two days for you come to catch. If you do not come to borrow within two days, this reserve will become invalid.
```

For example, in the picture above, input “9787810441063”, the information includes ISBN, BOOK_NAME, AVAILABLE_COPY, CATEGORY, AUTHOR_NAME, PUBLISHER, LANGUAGE, PUBLISH_TIME, DESCRIPTION will display as a list below. (The sample only cover a few of the information).

Patron can do the confirm to ensure the reserve operation.

- 1 --- confirm to borrow the book
- 0 --- give up borrowing the book

matters need attention:

1. A patron cannot have more than three in progress reserves.
2. A patron cannot reserve a same book twice
3. If all the book the patron wants to reserve is now in progress reserves, the system will remind the patron when there are available collections. (The period will last 100 days.)

4.2 reserve by BOOK_NAME

In this function, the patron can input a BOOK_NAME to make the reserve, after inputting the BOOK_NAME, the function will list out all the available reservations.

```

input the BOOK_NAME (a string have 1 to 50 characters e.g. Harry Potter):[input * quit]
STAR_WARS
The information of book STAR_WARS are as follows
BOOK_INFORMATION
  ISBN          BOOKNAME          AVAILABLE_COPY  CATEGORY          AUTHOR_NAME
(1)-----
  57387T5782577  STAR_WARS          5              SCIENCE_FICTION  BENJAMIN_LUCAS
(2)-----
  7231648727464  STAR_WARS          0              SCIENCE_FICTION  BENJAMIN_LUCAS
(3)-----
  8723657843675  STAR_WARS          0              SCIENCE_FICTION  BENJAMIN_LUCAS
(4)-----
  4641233494645  STAR_WARS          0              SCIENCE_FICTION  BENJAMIN_LUCAS
Enter the index (start from 1)of book that you want. If you want to cancel the borrow, enter 0.
Enter a integer from 0 to 4

```

List sample

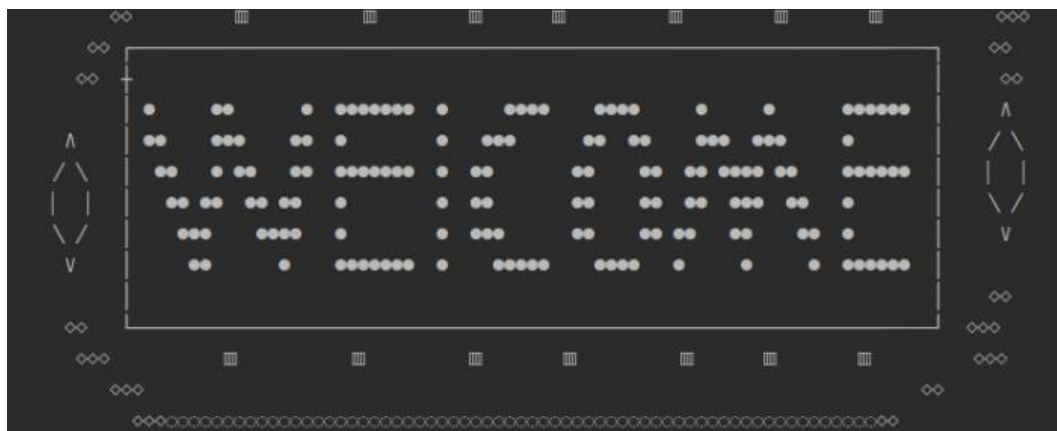
After the system list out the books, patron can input “X” to choose the book in the “X” line. For example, in the picture above, input “1” to choose “Star-war” in the first line, input “0” to quit.

Except the display list, this function has the same idea of the function above.

g the ISBN of the book, for example “9365827626587”, the staff can find the book which he or she wants to change the ISBN. Here the original description is shows on the screen(“A_WAST_OF_TIME”), then change it to “IT_IS_A_BOOK”.

---end---

Welcome Page:



In this page, there are three functions, the user may choose the function by input the No. before it. (This is a user manual for staff, so it will display an example for log in as a staff)
0 --- quit the system

- 1 --- log in as a patron
- 2 --- sign up a patron account
- 3 --- log in as a staff

After inputting 3, the staff need to input the staff ID, and the user password.

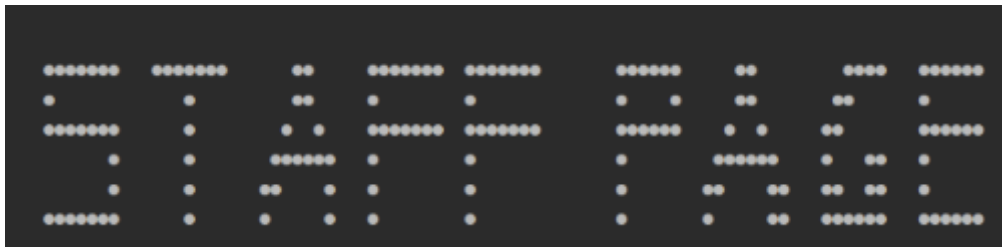
```
input the STAFF_ID (a string with 9 character e.g. 12345678s):[input * quit]
82647821s
input the PASSWORD (a string has 6 to 15 character e.g.abcdefghijk):[input * quit]
1657ANA1657
```

Correct log in sample

Noticed that each time the system only gives the staff 3 attempt time to input the correct password, otherwise the user will quit the system automatically.

After the staff input the correct ID and password, he or she will enter the staff page.

Staff Page:



staff page when log in

This is the patron log in page also the main menu, it will display 6 core functions and the notification list below. These pages will guide patron to do the operation in correct way.

[Core Function List]

```
Enter an integer to make the choose (enter 0 to quit):
```

```
1--manage book information / 2--manage collections of book
```

```
3--manage patrons information / 4--manage borrow records
```

In this page, staff can choose operation by input the match function No.:

- 0 --- return to log in page
- 1 --- manage book information
- 2 --- manage collections
- 3 --- manage patron's information
- 4 --- manage borrow records

[manage book information] (input “1” in function list)

Under the manage book information function, we have three different operations. The following is the description of them.

```
Enter an integer to make the choose (enter 0 to quit):  
  
1--check the book information / 2--update book information  
  
3--add new book information / 4--delete book information
```

In this page, staff can choose operation by input the match function No.:

- 0 --- return to function list
- 1 --- check book information
- 2 --- update book information
- 3 --- add new book information
- 4 --- delete book information

1. Check book information

```
----- You can add several conditions to search for book information -----  
Enter an integer to make the choose (enter 0 to quit): 1-- search by book name / 2-- search by ISBN 3-- search by comprehensive condition  
Enter a integer from 0 to 3
```

Under the check for book information function, there are three different operations. The following is the description of them.

- 0 --- return to early stage
- 1 --- search by book name
- 2 --- search by ISBN
- 3 --- search by comprehensive condition

1.1 Search by book name.

```
Input the BOOK_NAME (a string have 1 to 50 characters e.g. Harry Potter):[input = quit]  
SAN_LUCIA  
The information of book SAN_LUCIA are as follows  
BOOK_INFORMATION  
ISBN          BOOKNAME          AVAILABLE_COPY  CATEGORY          AUTHOR_NAME          PUBLISHER          LANGUAGE          PUBLISH_TIME  DESCRIPTION  
(1)-----  
722847981285  SAN_LUCIA          5              SCIENTIFIC        LUCAS_BUSH_WHITE     FRANCE_PUBLISHER    FRENCH            2001-06-23     VERY_RECOMMEND_TO_READ
```

Input one to enter search by name

In the function, staff can search the book information by input book name. For example, input “San-Lucia”, the information includes ISBN, BOOK_NAME, AVAILABLE_COPY, CATEGORY, AUTHOR_NAME, PUBLISHER, LANGUAGE, PUBLISH_TIME, DESCRIPTION will display as a list below. (The sample only cover a few of the information)

1.2 Search by ISBN

```
Input the ISBN (a string with 13 number character e.g. 1234567890123):[input = quit]  
8296587296274  
The information of book with ISBN 8296587296274 are as follows  
BOOK_INFORMATION  
ISBN          BOOKNAME          AVAILABLE_COPY  CATEGORY          AUTHOR_NAME          PUBLISHER          LANGUAGE          PUBLISH_TIME  DESCRIPTION  
(1)-----  
8296587296274  HARRIA_LEGEND_2    1              DIS              ALICE_MENLOW         LUXENBERG_PUBLISHER  CANADIAN          1950-11-19     HAVE_MANY_INTERESTING_SENCE
```

Input two to enter search by ISBN

In the function, staff can search the ISBN by input book name. For example, input “San-Lucia”, the information includes ISBN, BOOK_NAME, AVAILABLE_COPY, CATEGORY, AUTHOR_NAME, PUBLISHER, LANGUAGE, PUBLISH_TIME, DESCRIPTION will display as a list below. (The sample only cover a few of the information)

1.3 Search by comprehensive condition

```
..... Search book by comprehensive condition .....
..... Add one condition or quit. ....
Enter an integer to make the choose (enter 0 to quit): 1-- book name (contains..) / 2-- author name(contains..) / 3--publisher / 4--language / 5-- category / 6--publish time
Enter a integer from 0 to 6

Your requirement: books that BOOK_NAME contains IN OR AUTHOR_NAME contains BEN
The books which meet your requirement are as follows
BOOK_INFORMATION
ISBN          BOOKNAME          AVAILABLE_COPY  CATEGORY          AUTHOR_NAME          PUBLISHER          LANGUAGE          PUBLISH_TIME  DESCRIPTION
(1)
0764397506748  INFORMAL          2              STORY             BUSH JOHN           SALT LAKE PUBLISHER SPANISH           1877-12-28    CONFUSING
(2)
0963246598720  DISAPPEARING TOMATO 1              NON FICTION       P.Q. PERCY          JAPAN PUBLISHER    JAPANESE          1990-02-25    QUITE MEANINGFUL
(3)
5738775782577  STAR WARS         6              SCIENTIFIC        BENJAMIN LUCAS       USA CENTRAL PUBLISHER SPANISH           1997-08-07    THIS IS A BOOK
(4)
3498167615498  JEEP IN DESERT     2              COURAGE STORY     JOE CATON           RUSSIA MOSCOW PUBLISHER RUSSIAN           2006-04-22    NOTHING EDUCATIONAL
```

Search Sample

The search by comprehensive condition function supports combining 6 different conditions (book name, publisher, language, category, publish time) to find the book. For book name and author name they are special, staff only need to input part of them then it can select those book name/author name, which contains the string that you have input. After input all the search conditions, input “0” to start the search.

matter need attention: staff cannot quit after starting the search util finish.

2. Update book information

```
..... update the record .....
Enter an integer to make the choose (enter 0 to quit): 1-- change the description of a book 2--change category name into another 3--update all information of a book
Enter a integer from 0 to 3
```

Under the update book information function, there are three different operations. The following is the description of them.

- 0 --- return to early stage
- 1 --- change the description of a book
- 2 --- change the category of the book
- 3 --- update all the information

2.1 Change the description of a book

```
..... Enter the ISBN of book: .....
input the ISBN (a string with 13 number character e.g. 1234567890123):[input * quit]
9385827624587
The original description is: A_WASTE_OF_TIME
..... Please input the new description: .....
input the DESCRIPTION(a string have 1 to 500 characters:This is a nice book)(input * quit)
IT_IS_A_BOOK
```

By inputting the ISBN of the book, for example “9365827626587”, the staff can find the book which he or she want to change the ISBN. Here the original description is shows on the screen(“A_WAST_OF_TIME”), then change it to “IT_IS_A_BOOK”.

2.2 Change the category of the book and 2.3 update all the information

These two functions are somehow similar to the change description function, so them will not be demonstrate here.

3. Add new book information

For add new books the staff needs to input all the information of that book, include ISBN, BOOK_NAME, AVAILABLE_COPY, CATEGORY, AUTHOR_NAME, PUBLISHER, LANGUAGE, PUBLISH_TIME, DESCRIPTION.

These is the input example:

```
Enter an integer to make the choose (enter 0 to quit): 1--check the book information / 2--update book information /
Enter a integer from 0 to 4
0
..... Add the new book information! If the insertion process have pro
Please input ISBN,BOOK_NAME,CATEGORY,AUTHOR_NAME,PUBLISHER,LANGUAGE,PUBLISH_TIME,DESCRIPTION(input no to represent
input the ISBN (a string with 13 number character e.g. 1234567890123):[input * quit]
2110060212345
input the BOOK_NAME (a string have 1 to 50 characters e.g. Harry Potter):[input * quit]
MAX
input the CATEGORY (a string have 1 to 30 characters e.g. Scientific):[input * quit]
COMP
input the AUTHOR_NAME(a string have 1 to 30 characters CAO WEN XUAN,YANG JIANG):[input * quit]
PEIYU
input the PUBLISHER(a string have 1 to 30 characters,Gannett, New Media/Gatehouse, and Condé Nast):[input * quit]
POLYU
input the LANGUAGE(a string have 1 to 30 characters,such as ENGLISH·CHINESE)(input * quit))
ENGLISH
input the PUBLISHER_TIME(a string have 1 to 10 characters:2021/11/9,2012/2/14)(input * quit)
2021-1-1
input the DESCRIPTION(a string have 1 to 500 characters:This is a nice book)(input * quit)
NICE
```

In order, the staff input “2110060212345, MAX, COMP, PELYU, POLYU, ENGLISH, 2021-1-1, NICE” to add a new book information.

4. Delete book information

In this function, staff can delete book information by input ISBN or book ID.

```
input the BOOK_ID (a string with 15 number character e.g. 123456789054321):[input * quit]
781467813764732
The collection information is as follows:
3698167615698 781467813764732 true KANSARS_STATE_33RD_FLOOR
Are you sure to delete the information of this book? 1--yes, 0--no
Enter a integer from 0 to 1
1
Finish the operation. The information of the book and all its history borrow record have been deleted.
```

For example, the staff input “781467813764732” as a book ID to delete the collections of the book.

Staff can do the confirm to ensure the reserve operation.

1 --- confirm to delete the book

0 --- give up deleting the book

[manage collections] (input “2” in function list)

Under this function, it has four main functions to manage the collections:

```
Enter an integer to make the choose (enter 0 to quit):
```

```
1--check the information of collections / 2-- update the information of collections
3--add new collection / 4-- delete the collection information.
```

In this page, staff can choose operation by input the match function No.:

0 --- return to function list

1 --- check the information of collections

2 --- update the information of collections

3 --- add new collection

4 --- delete the collection information

1. Check information of collections

Here, staff can also choose options through input:

0 --- return to early stage

1 --- check information of a collection by book ID

2 --- check information of a collection by ISBN

3 --- check information of a collection by location

4 --- check unavailable collections

1.1 Check information of a collection by BOOK_ID

```
input the BOOK_ID (a string with 15 number character e.g. 123456789054321):[input * quit]
716481174119742
The collection's information:
COLLECTION
  ISBN          BOOK_ID          STATE  LOCATION
(1)-----
  57387T5782577  716481174119742  false  POLYULIBRARY_2ND_FLOOR
The collection's related book information.
BOOK_INFORMATION
  ISBN          BOOKNAME          AVAILABLE_COPY  CATEGORY          AUTHOR_NAME
(1)-----
  57387T5782577  STAR_WARS          6              SCIENCE_FICTION  BENJAMIN_LUCAS
```

Search sample

This function requires the staff to input the BOOK_ID to track a unique book and will display the collection information and Book information about it. For example, input “716481174119742” as a book ID to check the information includes ISBN, BOOK_NAME, AVAILABLE_COPY, CATEGORY, AUTHOR_NAME, PUBLISHETR, LANGUAGE, PUBLISH_TIME, DESCRIPTION.

1.2 Check information of a collection by ISBN


```

input the ISBN (a string with 13 number character e.g. 1234567890123):[input * quit]
57387T5782577
The book with ISBN 57387T5782577 have 6 copies.
COLLECTION
  ISBN          BOOK_ID          STATE  LOCATION
(1)-----
  57387T5782577  673647739963676  false  CITYULIBRARY_12ND_FLOOR
(2)-----
  57387T5782577  273487236476219  false  KANGTERRROOM_15TH_FLOOR
(3)-----
  57387T5782577  374628376479283  false  PKULIBRARY_13RD_FLOOR
(4)-----
  57387T5782577  421756784675923  false  LONGLIBRARY_BASEMENT
(5)-----
  57387T5782577  716481174119742  true   POLYULIBRARY_2ND_FLOOR
(6)-----
  57387T5782577  843175265783746  true   MYTH_LIBRARY_12ND_FLOOR

```

Search sample

In this function, its quire the user to input the ISBN to search all the fit collections store in the library, it will display as a list after the correct input which contains ISBN, BOOK_ID, STATE and LOCATION information. (Multiple books can have same ISBN)

1.3 Check information of a collection by LOCATION

```

input the LOCATION (a string has 1 to 30 characters e.g. A part 11 line):[input * quit]
CITYULIBRARY_12ND_FLOOR
The book at CITYULIBRARY_12ND_FLOOR :
COLLECTION
  ISBN          BOOK_ID          STATE  LOCATION
(1)-----
  57387T5782577  673647739963676  false  CITYULIBRARY_12ND_FLOOR

```

Search sample

In this function, it requires staff to input the BOOK_ID to search for a specific collection (BOOK_ID is unique to every book). It will display after the correct input which conations ISBN, BOOK_ID, STATE and LOCATION information.

1.4 Check unavailable collections

```

There are 5 unavailable books now.
COLLECTION
  ISBN          BOOK_ID          STATE  LOCATION
(1)-----
  57387T5782577  673647739963676  false  CITYULIBRARY_12ND_FLOOR
(2)-----
  57387T5782577  273487236476219  false  KANGTERRROOM_15TH_FLOOR
(3)-----
  57387T5782577  374628376479283  false  PKULIBRARY_13RD_FLOOR
(4)-----
  57387T5782577  421756784675923  false  LONGLIBRARY_BASEMENT
(5)-----
  9787810441063  127346723876762  false  TSINGHUALIBRARY_28TH_FLOOR

```

Search sample

Due to this page is only used for staff, to simplify the operation, after they input “4” to call this function, it will directly display all the unavailable collections. The information shown contains ISBN, BOOK_ID, STATE and LOCATION. (Staff no need to do any input here)

2. Update the information of collections

Here, staff can also choose options through input:

- 0 --- return to early stage
- 1 --- change the location of a book
- 2 --- active the stage of a book
- 3 --- inactive the stage of a book

2.1 Change the location of a book

```

input the BOOK_ID (a string with 15 number character e.g. 123456789054321):[input * quit]
673647739963676
The original location of the book is: CITYULIBRARY_7ND_FLOOR
input the LOCATION (a string has 1 to 30 characters e.g. A part 11 line):[input * quit]
CITYULIBRARY_12ND_FLOOR
Successfully change the location of the book

```

Sample

This function requires the staff input the BOOK_ID to track a unique book and will display the original location of it, the operation finish after inputting a new location.

2.2 Active the stage of a book

```

input the BOOK_ID (a string with 15 number character e.g. 123456789054321):[input * quit]
673647739963676
Successfully update the state of book.

```

Sample

This function requires the staff to input the BOOK_ID to track a unique book and will activate the available stage of it (from 0 to 1).

2.3 Inactive the stage of a book

```
input the BOOK_ID (a string with 15 number character e.g. 123456789054321):[input * quit]
673647739963676
Successfully update the state of book.
```

Sample

This function requires the staff to input the BOOK_ID to track a unique book and will inactivate the available stage of it (from 1 to 0).

3. Add new collection

```
input the ISBN (a string with 13 number character e.g. 1234567890123):[input * quit]
9365827626587
Please input COLLECTION information (input nothing to represent the null value):

The BOOK_ID have been generated by the system. which is 666877604086341
input the STATE (true / false):[input * quit]
true
input the LOCATION (a string has 1 to 30 characters e.g. A part 11 line):[input * quit]
NEW_YORK_LIBRARY_14TH_FLOOR
Do you want to add more collections ? 1--yes 0 -- no
Enter a integer from 0 to 1
0
Successfully add 1 collections

Leave add collection information
```

Addition sample

This function will receive an ISBN (input by staff) and check whether the ISBN is in the collection, if it does, which means we have copy collections in it, the system will automatically generate a BOOK_ID for it and let the staff set the other two information (STATE and LOCATION). This function also allows the staff to add multiple copies once he calls the function.

In this stage, the staff can input:

0 --- finish add new collection

1 --- add more collection

4. Delete the collection information

4.1 Delete by collecting's BOOK_ID

```

input the BOOK_ID (a string with 15 number character e.g. 123456789054321):[input * quit]
781467813764732
The collection information is as follows:
3698167615698 781467813764732 true KANSARS_STATE_33RD_FLOOR
Are you sure to delete the information of this book? 1--yes, 0--no
Enter a integer from 0 to 1
1
Finish the operation. The information of the book and all its history borrow record have been deleted.

```

Delete sample

This function requires the staff to input the BOOK_ID to track a unique book and will delete it from the database system, but before the deletion, it will display all the information (ISBN, BOOK_ID, STATE, LOCATION from left to right). After the staff confirms, he can input “1” to delete the book or input “0” to cancel this deletion.

4.2 Delete by collections ISBN

This function receives ISBN and will first list all the collections which have the same ISBN with all the information (ISBN, BOOK_ID, STATE, LOCATION). After the confirmation, the staff can input “1” to delete the list or input “0” to cancel the deletion. (Same with delete by BOOK_ID)

[manage patron’s information] (input “3” in function list)

In this page, staff can choose operation by input the match function No.:

- 0 --- return to function list
- 1 --- check the patron information
- 2 --- update the patron information

1. Check the patron information.

```

..... check the patron information .....
Enter an integer to make the choose (enter 0 to quit): 1 -- select by patron id 2 -- select by patron name 3 -- check the inactivated patron account.
Enter a integer from 0 to 3

```

Here we support three ways for searching, we can search by using patron id, name, and check the inactivated patron account.

- 0 --- return to early stage
- 1 --- select by patron information
- 2 --- select by patron name
- 3 --- check the inactivate patron account

1.1 select by patron id and 1.2select by patron name

The usage of these two methods is very similar to previous search function. (Like search by book ID or search by book name)

```

..... check the patron information .....
Enter an integer to make the choose (enter 0 to quit): 1 -- select by patron id 2 -- select by patron name 3 -- check the inactivated patron account.
Enter a integer from 0 to 3

Please input your PATRON_ID such as 123456789p(input * to quit)
123456789p
The personal information of the person is as follows:
90278775p JOHN_SMITH 44 false JSJS8163.COM MALE GOODMAN_ROAD_25TH hhh 84217593

```

1.3 check the inactivate patron account

The usage of this function is to check the patron whose state is in activate, in our database system, we use 0 to represent the patron's state which is inactivate.

```
..... check the patron information .....
Enter an integer to make the choose (enter 0 to quit): 1 -- select by patron id 2 -- select by patron name 3 -- check the inactivated patron account.
Enter a integer from 0 to 3
1
The inactivated persons are as follows:
PATRON_ID    PATRON_NAME    ILLEGAL_TYPE
72647867p    BEN_JOHN       null
83748773p    LILY_WHITE     null
64273878p    PAT_WILL       NULL
```

Here these patrons are inactivating because they did not do anything after they created the account. (In this function, the staff no need to input anything)

2. Update patron's information

Here we provide three kinds of updates: record users violation, activate the user account, inactivate borrow records and inactivate all abnormal borrow records and inactivate the patrons making these borrow.

- 0 --- return to early stage
- 1 --- record violation
- 2 --- activate the user account
- 3 --- inactivate all abnormal borrow records and inactivate the patrons making these borrows

2.1 record violation

This function is used for the staff to record those patrons who made some illegal behaviors.

```
Enter a integer from 0 to 3
1
Please input your PATRON_ID such as 123456789p(input * to quit)
21789256p
Please input your ILLEGAL_TYPE such as (destroyed the book)(input * to quit)
Bad_behavior
Finish the update
```

For example, in the picture above, the staff input a patron ID and then input "Bad behavior" as the record violation.

2.2 activate the user account

```
.....
Enter an integer to make the choose (enter 0 to quit): 1 -- record us
Enter a integer from 0 to 3
2
Please input your PATRON_ID such as 123456789p(input * to quit)
64273878p
Finish the update.
```

For example, in the picture above, the staff input a patron ID to active the account.

2.3 inactivate all abnormal borrow records and inactivate the patrons making these borrows

This function is used for checking those users who made illegal borrow records and inactivate their borrow record.

The following image is the usage of it, it will ask you to confirm if you want to inactivate all the user in one go.

```

Enter a integer from 0 to 3
3
The abnormal in progress records are as follows, which is started 100 days before.
BORROW_RECORD
  ISBN          BOOK_ID          PATRON_ID  RECORD_ID  START_TIME  END_TIME
(1)-----
  7218475981205  716473876473876  64273878p  6718467810  2019-09-22  null
(2)-----
  9787810441063  237468723623678  21789256p  8192347810  2020-04-11  null
(3)-----
  9365827626587  287492874898279  65488722p  8247598432  2022-02-28  null
These borrow is made my following person:
PAT_WILL  COOK_BUSH  MERGE_HANS  Are you sure to inactivate these persons account? 1--yes 0 -- no
Enter a integer from 0 to 1
1
Successfully inactivate these persons account.

```

In this page, the staff can:

- 1 --- inactivate all the account
- 0 --- give up inactivating

3. delete the patron information

Here the staff can choose to delete the information of the patron. The following shows the usage of it. First, it will ask the staff to input the patron id to find the one they want to delete. Then in case they mistakenly made any operation, we will ask them to confirm the deletion.

```

..... delete the patron .....
Enter an integer to make the choose (enter 0 to quit): 1 -- delete patron by patron_id.
Enter a integer from 0 to 1
1
Please input your PATRON_ID such as 123456789p(input * to quit)
64273878p
The information of the patron is as follows.
64273878p  PAT_WILL          23  true          ZHOZHOU343@163.COM          MALE  GARDEN_ROAD_14TH
Are you sure to remove it from database ? 1 -- yes 0 --no
Enter a integer from 0 to 1
1
Successfully perform the deletion. All of the borrow records and in progress reserve has also been cleared from the system.

```

For example, the staff input the patron's ID to check the information of the patron, later, input "1" to delete the information. (Can input "0" to give up this operation)

[manage borrow records] (input "4" in function list)

In this page, staff can choose operation by input the match function No.:

- 0 --- return to function list
- 1 --- check the record
- 2 --- update the record
- 3 --- delete the record

1. Check the record

In this stage, the staff can:

- 0 --- return to early stage
- 1 --- check the records by records ID
- 2 --- check the records made by patron
- 3 --- check in progress record
- 4 --- check the record of a particular time range
- 5 --- check the record about one collection
- 6 --- check the abnormal in process record

1.1 Check the records by RECORDS_ID

```
Please input the record_ID such as 1234567890(input * to quit)
6718467810
7218475981205  716473876473876  64273878p  6718467810  2019-09-22  null
```

Search sample

This function requires the staff to input the record_ID to track a unique record and will display the information about it (RECURD_ID, BOOK_ID, PATRON_ID, ISBN, START_TIME, END_TIME from left to right).

1.2 Check the records made by patron

(1) search by patron name

```
You can choose to input either the patron id or the patron name: (0 to quit) 1 -- name 2 -- id
Enter a integer from 0 to 2
1
Please input the your PATRON_NAME(1 to 30 characters) such as FRANKLIN(input * to quit)
PAT_WILL
The record by patron with name PAT_WILL is as follows:BORROW_RECORD
  ISBN          BOOK_ID          PATRON_ID  RECORD_ID  START_TIME  END_TIME
(1)-----
  7218475981205  716473876473876  64273878p  6718467810  2019-09-22  null
(2)-----
  9787810441063  127346723876762  64273878p  8241578940  2022-09-22  null
(3)-----
  57387T5782577  421756784675923  64273878p  3485679380  2019-11-22  2020-01-06
```

(2) search by patron id

```

You can choose to input either the patron id or the patron name: (0 to quit) 1 -- name 2 -- id
Enter a integer from 0 to 2
2
Please input the PATRON_ID such as 12345678p(input * to quit)
21789256p
The record by patron with id 21789256p is as follows:
BORROW_RECORD
  ISBN          BOOK_ID          PATRON_ID  RECORD_ID  START_TIME  END_TIME
(1)-----
  5738715782577  716481174119742  21789256p  7182461870  2022-09-11  null
(2)-----
  9787810441063  237468723623678  21789256p  8192347810  2020-04-11  null
(3)-----
  7218475981205  716473876473876  21789256p  7164871640  2017-08-13  2017-08-28
(4)-----
  5738715782577  716481174119742  21789256p  7164871646  2020-08-13  2020-08-28
(5)-----
  5738715782577  843175265783746  21789256p  7214976574  2021-09-18  2021-11-24

```

This function requires the staff to input the patron information (1. Name 2. ID) to track all the related records and return a list of them. (RECORD_ID, BOOK_ID, PATRON_ID, ISBN, START_TIME, END_TIME from left to right).

1.3 Check in progress record

```

The in progress borrow records is as follows:
BORROW_RECORD
  ISBN          BOOK_ID          PATRON_ID  RECORD_ID  START_TIME  END_TIME
(1)-----
  7218475981205  716473876473876  64273878p  6718467810  2019-09-22  null
(2)-----
  9787810441063  127346723876762  64273878p  8241578940  2022-09-22  null
(3)-----
  5738715782577  716481174119742  21789256p  7182461870  2022-09-11  null
(4)-----
  9787810441063  237468723623678  21789256p  8192347810  2020-04-11  null
(5)-----
  8296587296274  819427981847657  82647821p  6234787367  2022-11-18  null
(6)-----
  0764397506748  423976982002757  82647821p  1067487146  2022-09-27  null
(7)-----
  3698167615698  278676473829763  65488722p  7246762876  2022-11-06  null
(8)-----
  9365827626587  287492874898279  65488722p  8247598432  2022-02-28  null

```

A simple function returns all the in-progress records when called.

1.4 Check the record of a particular time range

```

Please input the START_TIME such as 2021-1-12(input * to quit) (input # to represent today)
2022-11-18
Please input the END_TIME such as 2021-1-25(input * to quit) (input # to represent today!)
#
The borrow records range from 2022-11-18 to 2022-11-19 are as follows:
BORROW_RECORD
  ISBN          BOOK_ID          PATRON_ID  RECORD_ID  START_TIME  END_TIME

```


Search sample

This function required the staff input two certain times (YYYY-MM-DD, “#” to represented today’s time). After two times all past the efficiency test, this function will display all the records in the period.

1.5 Check the record about one collection

(1) Search by Book name

```
You can choose to input either the BOOK id or the BOOK name: (0 to quit) 1 -- name 2 -- id
Enter a integer from 0 to 2
1
input the BOOK_NAME (a string have 1 to 50 characters e.g. Harry Potter):[input * quit]
STAR_WARS
The BOOK by BOOK with name STAR_WARS is as follows:BORROW_RECORD
  ISBN          BOOK_ID          PATRON_ID  RECORD_ID  START_TIME  END_TIME
(1)-----
  57387T5782577  421756784675923  64273878p  3485679380  2019-11-22  2020-01-06
(2)-----
  57387T5782577  716481174119742  21789256p  7182461870  2022-09-11  null
(3)-----
  57387T5782577  716481174119742  21789256p  7164871646  2020-08-13  2020-08-28
(4)-----
  57387T5782577  843175265783746  21789256p  7214976574  2021-09-18  2021-11-24
```

(2) Search by Book ID

```
You can choose to input either the BOOK id or the BOOK name: (0 to quit) 1 -- name 2 -- id
Enter a integer from 0 to 2
2
input the BOOK_ID (a string with 15 number character e.g. 123456789054321):[input * quit]
287492874898279
The borrow record about BOOK with id 287492874898279 is as follows:BORROW_RECORD
  ISBN          BOOK_ID          PATRON_ID  RECORD_ID  START_TIME  END_TIME
(1)-----
  9365827626587  287492874898279  65488722p  7632487628  2018-10-29  2018-11-21
(2)-----
  9365827626587  287492874898279  65488722p  8247598432  2022-02-28  null
```

Like the search for the patron’s information, this function allowed the staff to search the record by Book name OR ID (1. BOOK_NAME 2. BOOK_ID), After the input, all the related records will be displayed. (RECURD_ID, BOOK_ID, PATRON_ID, ISBN, START_TIME, END_TIME from left to right).

1.6 Check the abnormal in process record

The overdue in progress borrow record are as follows:

BORROW_RECORD						
ISBN	BOOK_ID	PATRON_ID	RECORD_ID	START_TIME	END_TIME	
(1)	7218475981205	716473876473876	64273878p	6718467810	2019-09-22	null
(2)	9787810441063	237468723623678	21789256p	8192347810	2020-04-11	null
(3)	9365827626587	287492874898279	65488722p	8247598432	2022-02-28	null

A simple function returns all the abnormal records when called. (The staff no need to input anything here)

2. update the record

```

..... update the bo
Enter an integer to make the choose (enter 0 to quit): 1 -- end the in progress record.
Enter a integer from 0 to 1
1
Please input the record_ID such as 1234567890(input * to quit)
6718467810
Successfully end the borrow.

```

This function is used to terminate the in progress borrow record. For example above, the staff input "6718467810" which represented as a record ID to update the record.

3. delete the record

3.1 delete record before a particular time

```

Please input the END_TIME such as 2021-1-25(input * to quit) (input # to represent today!)
#
Successfully perform the deletion.

```

For easy demonstration, the staff just delete the records before today, which means deleting all the records except those in progress.

3.2 delete record by record id

```

Please input the record_ID such as 1234567890(input * to quit)
6718467810
Successfully perform the deletion.

```

To delete a particular record, the staff needs to input record id. Because it is somehow like the previous function

3.3 delete records about a collection


```

.....
      7 7 7 7 7
      book analysis
      7 7 7 7 7
.....

The library has 27 books in total
15 of them are available now. count for 55.56%
12 of them are unavailable. count for 44.44%

Statistical Table of the Number of Copies of Books
Book Name                               ISBN                               The Number of Copies
-----
STAR_WARS                               57387T5782577 7
SAN_LUCIA                               7218475981205 5
HARRY_POTTER_7                           9787810441063 5
BIG_CUCUMEMBER                           9365827626587 3
JEEP_IN_DESERT                           3698167615698 2
INFORMAL                                 0764397506748 2
NARNIA_LEGEND_2                           8296587296274 2
DISAPPEARING_TOMATO                       0983246598726 1

Statistical Table of the Information of the Old Books Which Aren't Welcomed
Book name                               ISBN                               Publish Time
-----
HARRY_POTTER_7                           2475947892847 1999-09-09
STAR_WARS                                 7231648727464 1997-08-07
STAR_WARS                                 8723657843675 1997-08-07
HARRY_POTTER_7                           8573692876859 1999-09-09
HARRY_POTTER_7                           4298748728748 1999-09-09
STAR_WARS                                 4641233494645 1997-08-07

```

3. patron analysis

- i. First, the activation situation of the patrons will be shown
- ii. The, the staff can see the age groups

```

.....
patron analysis
.....

There are 10 signed up patrons in total.
8 of them are activated. count for 80.00%
2 of them are inactivated. count for 20.00%

Statistical Table of Patrons of Different Age Groups
Age Groups      quantity      percentage
-----
0 ~ 12         1          10.00%
13 ~ 18         0           0.00%
19 ~ 30         2          20.00%
31 ~ 40         0           0.00%
41 ~ 60         2          20.00%
> 60           5          50.00%

Statistical Table of Patrons of Different gender Groups
7 are MALE. Count for 70.00%
3 are FEMALE. Count for 30.00%

Statistical Table information of the active patron who frequently borrowed the books these days.
Patron name      patron ID
-----
MAX_BLACK        82647821p
COOK_BUSH        21789256p
MERGE_HANS       65488722p

```

4. borrow records analysis

- i. This report will show the situation of the overdue records
- ii. Then, the time range of the history records will be shown
- iii. The staff also can see which 5 books are the most popular during the history of the library
- iv. The 3 most popular categories of books will be shown next.

```

.....
borrow records analysis
.....

There are [myOracle.BORROW_RECORD@5e3f861, myOracle.BORROW_RECORD@2fb0623e, myOracle.BORROW_
BORROW_RECORD
ISBN          BOOK_ID      PATRON_ID  RECORD_ID  START_TIME  END_TIME
-----
(1)-----
7218475981205  716473876473876  64273878p  6718467810  2019-09-22  null
(2)-----
9787810441063  237468723623678  21789256p  8192347810  2020-04-11  null
(3)-----
9365827626587  287492874898279  65488722p  8247598432  2022-02-28  null

The system saves 18 history records. The time range of these history records are as follows
within 1 week: 0 records. Count for 0.00%
1 week to 1 month: 0 records. Count for 0.00%
1 month to 1 quarter: 0 records. Count for 0.00%
1 quater to 1 year: 0 records. Count for 0.00%
1 year to 3 year: 17 records. Count for 94.44%
3 year to 10 year: 1 records. Count for 5.56%
10 years ago : 0 records. Count for 0.00%

```

Book Name	ISBN	number of borrow records
INFORMAL	0764397506748	5
STAR_WARS	57387T5782577	4
BIG_CUCUMEMBER	9365827626587	4
JEEP_IN_DESERT	3698167615698	4
SAN_LUCIA	7218475981205	3

```
Category                number of borrow records
-----
```

HORROR	7
STORY	5
SCIENCE_FICTION	4
COURAGE_STORY	4
JOURNAL_FANTASY	3

This part will show the situation of the reserve records.

I.How many reserves are in progress will be shown

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