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 CS315
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Java Demo Screenshots

These screenshots demonstrate adding, removing, and searching books on the library database!

1. Adding books to database

```

----jGRASP exec: java Main

-----Main Menu-----
1-Books | 2-Return Books | 3-Issue | 4-Branch Information| 5-Account
-----
>> Select: 1
-----You have selected Books!-----

What would you like to do?

1. Add new.
2. Permanently remove.
3. Search

>> Select: 1
How many books?
>> 1
-----Add new books-----
Enter the book Name:
>> Ghost Hunt
Enter the ISBN:
>> 987654312341
Enter the genre:
>> Horror
Add name of Author:
>> Fuyumi Ono
Published date(yy-mm-dd):
>> 1998-03-27

----jGRASP: operation complete.
>> |

```

2. Removing books from the database!

```
jGRASP> exec java main

-----Main Menu-----
1-Books | 2-Return Books | 3-Issue | 4-Branch Information| 5-Account
-----
Select: 1
-----You have selected Books!-----

What would you like to do?

1. Add new.
2. Permanantly remove.
3. Search

Select: 2
-----Remove-----
How many books?
1
Enter Name of Book:
Discrete Math
Enter ISBN:
5432123457876
Book has been deleted.
Redirecting...

----jGRASP: operation complete.

└
```

3. *Searching and displaying pertaining information. The user inputs the name of the book and ISBN for which they are looking for. If the information matches up/exists, it will display the Book's information, if it doesn't exist it will not show anything.*

```

-----Main Menu-----
1-Books | 2-Return Books | 3-Issue | 4-Branch Information| 5-Account
-----
>> Select: 1
-----You have selected Books!-----

What would you like to do?

1. Add new.
2. Permanantly remove.
3. Search

>> Select: 3
-----Search-----
How many books?
>> 1
Enter the name of book:
>> Ghost Hunt
Enter the ISBN:
>> 987654312341

Ghost Hunt Found!

-----
Title: Ghost Hunt
ISBN: 987654312341
Genre: Horror
Author: Fuyumi Ono
Published_Date: 1998-03-27
-----

----jGRASP: operation complete.

```

The following screenshots demonstrate the use of the returning books table, here the users can select whether they want to: Return books or Display the information of all books that have been returned. Before doing this demo I had 2 books that were issued to 2 users, now if I run Issue and display all, there will only be 1 user.

```
-----Main Menu-----  
1-Books | 2-Return Books | 3-Issue | 4-Branch Information| 5-Account  
-----  
Select: 2  
You have chosen 'Return Books'.  
What would you like to do?  
1. Return Books  
2. Display all  
1  
How many book returns?  
1  
Enter library card number:  
848599472  
Enter book's ISBN:  
978-0545586177  
Enter Full name:  
Jay Park  
Enter Today's Date:  
2021-04-29  
Successfully Returned Book!  
Exiting.....  
----jGRASP: operation complete.  
L
```

There is now only one user because the other user Jay Park has returned his issued book, when the book was returned Jay Park was removed from the Issue table since he was no longer issued the book. The only way a user can be removed from the issued table is by returning his/her book!

```
----jGRASP exec: java Main

-----Main Menu-----
1-Books | 2-Return Books | 3-Issue | 4-Branch Information| 5-Account
-----
>> Select: 3
You have chosen 'Issue'.
What would you like to do?
1. Issue a Book
2. Search
3. Display All
>> 3
1. Full_Name: Shin Hyo-seob
   Lib_Num: 748342688
   Title: Fruits Baket
   ISBN: 123456789567
-----
----jGRASP: operation complete.
>> |
```

The second option for return Books is to display all, this option displays a list of information of users who have returned books, as well as the book information!

```

-----main menu-----
1-Books | 2-Return Books | 3-Issue | 4-Branch Information| 5-Account
-----
Select: 2
You have chosen 'Return Books'.
What would you like to do?
1. Return Books
2. Display all
2
-----
Library card: 848599472
ISBN: 978-0545586177
Full Name: Jay Park
Date of return: 2021-04-29
-----
Library card: 908678675
ISBN: 978-0439023528
Full Name: Cha Eun Woo
Date of return: 2021-04-27
-----
Library card: 965803457
ISBN: 978-0316707046
Full Name: Kwon Hyuk
Date of return: 2021-04-30
-----
----jGRASP: operation complete.

```

The following screenshots demonstrate the Issue option from the Main Menu and it is connected to the Issue_Status table in my database. Users are given three options: Issue a book, search, or Display all. To issue a book, the book has to exist in the Book table and it has to be accurate(also with the user_Info.

```
1-Books | 2-Return Books | 3-Issue | 4-Branch Information| 5-Account
-----
>> Select: 3
You have chosen 'Issue'.
What would you like to do?
1. Issue a Book
2. Search
3. Display All
>> 1
Enter number of books to be issued:
>> 1
Enter book name:
>> Harry Potter and the Half-Blood Prince
Enter book's ISBN:
>> 978-0439785969
Enter Full name:
>> Harry Styles
Enter library card number:
>> 677783610
Enter Date(yy-mm-dd):
>> 2021-04-29
Successfully Issued Book!
Exiting.....

----jGRASP: operation complete.
>> |
```

In the following screenshot, I search for the book I just Issued and as one can see, that when I enter the pertinent information, it displays the information from the issued table only for the book that I was looking for, this shows the user who has the book and when it was issued.

```
-----Main Menu-----
1-Books | 2-Return Books | 3-Issue | 4-Branch Information| 5-Account
-----
>> Select: 3
You have chosen 'Issue'.
What would you like to do?
1. Issue a Book
2. Search
3. Display All
>> 2
-----Search-----
How many books?
>> 1
Enter the name of book:
>> Harry Potter and the Half-Blood Prince
Enter the ISBN:
>> 978-0439785969

Harry Potter and the Half-Blood Prince
Status: Issued

-----
Full Name: Harry Styles
Library Card: 677783610
Issued: 2021-04-29
-----
----jGRASP: operation complete.
>> |
```


This shows the books that are issued and who they are issued to!

```

-----Main Menu-----
1-Books | 2-Return Books | 3-Issue | 4-Branch Information| 5-Account
-----
Select: 3
You have chosen 'Issue'.
What would you like to do?
1. Issue a Book
2. Search
3. Display All
3
1. Full_Name: Shin Hyo-seob
   Lib_Num: 748342688
   Title: Fruits Basket
   ISBN: 123456789567
   -----
2. Full_Name: Harry Styles
   Lib_Num: 677783610
   Title: Harry Potter and the Half-Blood Prince
   ISBN: 978-0439785969
   -----
----jGRASP: operation complete.

```

The Branch option is very short, the user(who is the librarian) is not authorized to remove or add branches to the database. I have only given them the option of searching for a branch's information by inputting the branch's name. They can search for any number of branches they want, however, it will only display branches that exist!

```
-----Main Menu-----
1-Books | 2-Return Books | 3-Issue | 4-Branch Information| 5-Accoun
-----
>> Select: 4
You have chosen 'Branch'.
What would you like to do?
1. Search
>> 1
-----Search-----
How many branches?
>> 1
Enter the name of Branch:
>> Rogers Park Branch

Rogers Park Branch:
-----
Address: 6907 N Clark St, Chicago, IL 60626
Phone: 312-744-0156
-----

----jGRASP: operation complete.
>> L
```

In the Account Option, users are given 4 Options: Add users, remove users, Display Users, and search. One thing to remember when inputting the user's info is that the library card number has to be exactly nine characters.

```

----jGRASP exec: java Main

-----Main Menu-----
1-Books | 2-Return Books | 3-Issue | 4-Branch Information| 5-Account
-----
Select: 5
You have chosen 'Account'.
What would you like to do?
1. Add users
2. Remove users
3. Display users
4. Search
1
How many users?
1
Enter Branch Name:
Rogers Park Branch
Enter Full name:
Zion.t
Enter Address:
4233 N Lunt Ave Chicago IL 60626
Enter library card number:
123987098
Enter Birthdate (yy-mm-dd):
1993-02-12
Enter date of registration (yy-mm-dd)
2021-04-29
Successfully Added New User!
Exiting.....

jGRASP: execution complete

```

The next Option is to remove a user, a librarian only needs the name of the users they are removing and their library card number.

```

----jGRASP exec: java Main

-----Main Menu-----
1-Books | 2-Return Books | 3-Issue | 4-Branch Information| 5-Account
-----
Select: 5
You have chosen 'Account'.
What would you like to do?
1. Add users
2. Remove users
3. Display users
4. Search
2
How many users?
1
Enter Full name:
Mathew Davis
Enter library card number:
011463648
Enter Birthdate(yy-mm-dd):
1978-05-08
Book has been deleted.
Redirecting...

----jGRASP: operation complete.

```

The following screenshots display all user info, there are alot of users, so the list will be very long!

```
-----Main Menu-----
1-Books | 2-Return Books | 3-Issue | 4-Branch Information| 5-Account
-----
Select: 5
You have chosen 'Account'.
What would you like to do?
1. Add users
2. Remove users
3. Display users
4. Search
3
1.
    -----
    Full_Name: Cha Eun Woo
    Branch_Name: Rogers Park Branch
    Address: 7867 N Lake st Chicago Il 60626
    Lib_Num: 908678675
    B_Day: 1997-03-30
    Reg_Date: 2019-09-05
    -----
2.
    -----
    Full_Name: Harry Styles
    Branch_Name: Lincoln Park Branch
    Address: 6209 W Belmont St Chicago Il 60649
    Lib_Num: 677783610
    B_Day: 1994-02-01
    Reg_Date: 2020-07-09
    -----
3
```

3.

Full_Name: Henry Cavill
Branch_Name: Little Italy Branch
Address: 3207 W Arthur St Chicago Il 60621
Lib_Num: 323362224
B_Day: 1983-05-05
Reg_Date: 2020-10-31

4.

Full_Name: Jay Park
Branch_Name: Little Village Branch
Address: 9890 W Fullerton St Chicago Il 60650
Lib_Num: 848599472
B_Day: 1987-04-25
Reg_Date: 2020-06-13

5.

Full_Name: Kwon Hyuk
Branch_Name: Rogers Park Branch
Address: 4237 N Irving Park rd Chicago Il 60643
Lib_Num: 965803457
B_Day: 1992-11-10
Reg_Date: 2019-10-04

6.

Full_Name: Liam Hemsworth
Branch_Name: Lincoln Park Branch
Address: 1234 E Damen St Chicago Il 60651
Lib_Num: 321596513
B_Day: 1990-01-13
Reg_Date: 2020-09-12

7.

Full_Name: Ryan Gosling
Branch_Name: Lincoln Park Branch
Address: 9857 E Randolph St Chicago Il 60627
Lib_Num: 333651607
B_Day: 1980-11-12
Reg_Date: 2020-08-15

8.

```

-----
Full_Name: Shin Hyo-seob
Branch_Name: Little Village Branch
Address: 8746 W Pulaski St Chicago il 60642
Lib_Num: 748342688
B_Day: 1992-05-03
Reg_Date: 2020-05-03
-----

```

9.

```

-----
Full_Name: Woo Ji-ho
Branch_Name: Rogers Park Branch
Address: 2112 W Clark St Chicago Il 60623
Lib_Num: 353393779
B_Day: 1992-09-14
Reg_Date: 2019-12-03
-----

```

10.

```

-----
Full_Name: Zion.t
Branch_Name: Rogers Park Branch
Address: 4233 N Lunt Ave Chicago Il 60626
Lib_Num: 123987098
B_Day: 1993-02-12
Reg_Date: 2021-04-29
-----

```

```

----jGRASP: operation complete.

```

|

As we can see Mathew Addams has been removed from the User_Info table .

Finally, the Last option for the Account options is 'search', here the user is able to research for a specific user only by using their library card number.

```
----jGRASP exec: java Main

-----Main Menu-----
1-Books | 2-Return Books | 3-Issue | 4-Branch Information| 5-Account
-----
Select: 5
You have chosen 'Account'.
What would you like to do?
1. Add users
2. Remove users
3. Display users
4. Search
4
-----Search-----
How many users?
1
Enter the library card number:
353393779

353393779:

1.
-----
Branch: Rogers Park Branch
Full Name: Woo Ji-ho
Address: 2112 W Clark St Chicago Il 60623
Birthdate: 1992-09-14
-----

----jGRASP: operation complete.
└
```