FINAL REPORT OF LIBRARY IS

As a group, we decided to make a Library IS. According to source codes, our Library system first asks users to login correctly. (We defined the user ID 2020 and we defined the password as SE115.) Then it prints a menu to direct to what user wants to do. Our menu contains “BookSearching”, “BookDonation”, “BookBorrowing” and a quit option.

1. Choosing BookSearching

If you want to search a book first, you need to give a name input and to be more specifically a genre to the system. Then our system searches book through the database of shelf and section. It prints the Section and the Shelf according to given book name. If you want to keep searching, the system will automatically print the menü again and you can keep searching.

2. Choosing BookDonation

If you want to donate a book first, you need to give a name input and the genre of the book. The system will print where the book belongs in the library and you can easily place the book and the book’s date will be saved in our system.

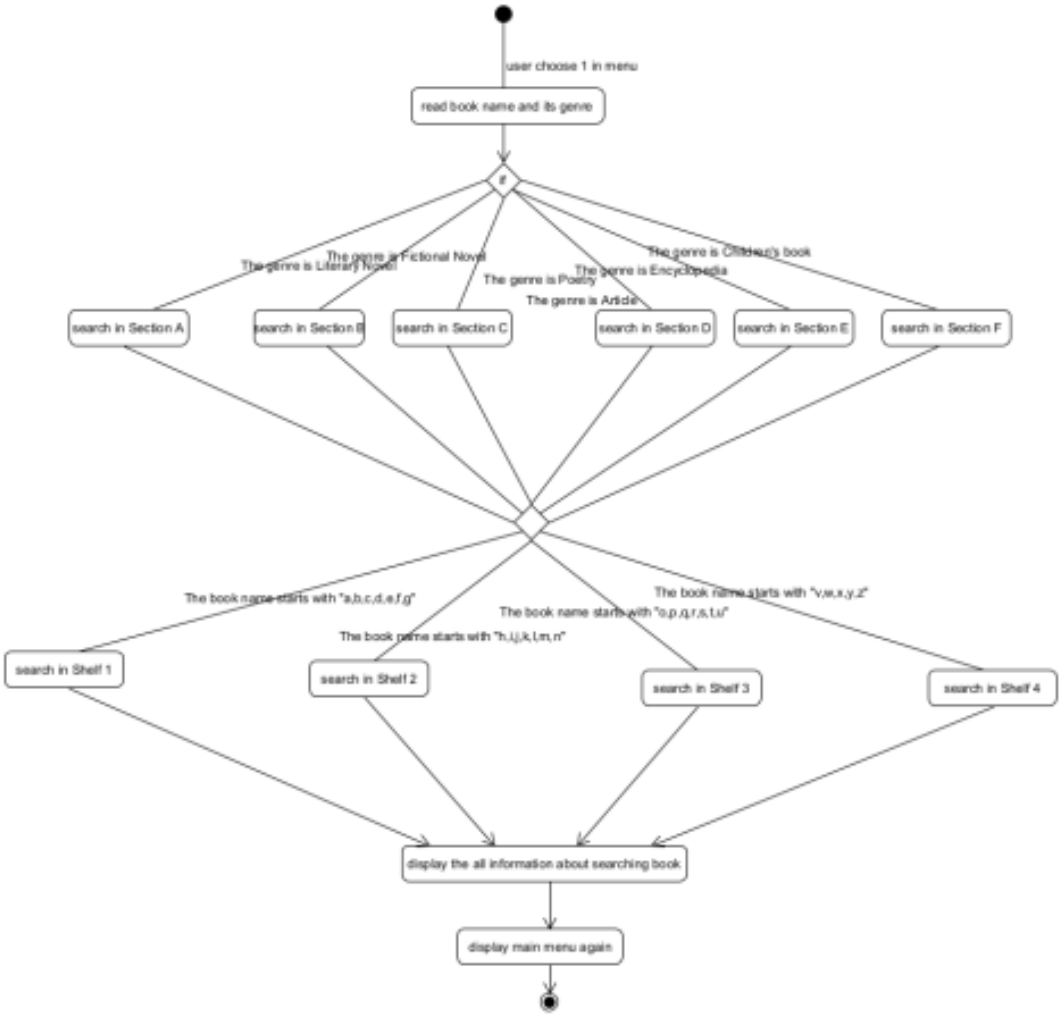
3. Choosing BookBorrowing

In borrowing system after you choose a book to borrow if you are borrowing a book which has 300 or under page count system will give the user a 7-day deadline to bring the book back to the library. If the book has over 300 pages system will automatically give the user 14 days for the deadline. After the deadline, if the user does not bring the book back the system will pop-up a warning message. If user does not bring the book again the system will create a 7-day deadline regardless of page count. The system will continue to warn the user with this period until user brings the book back.

4. Quit

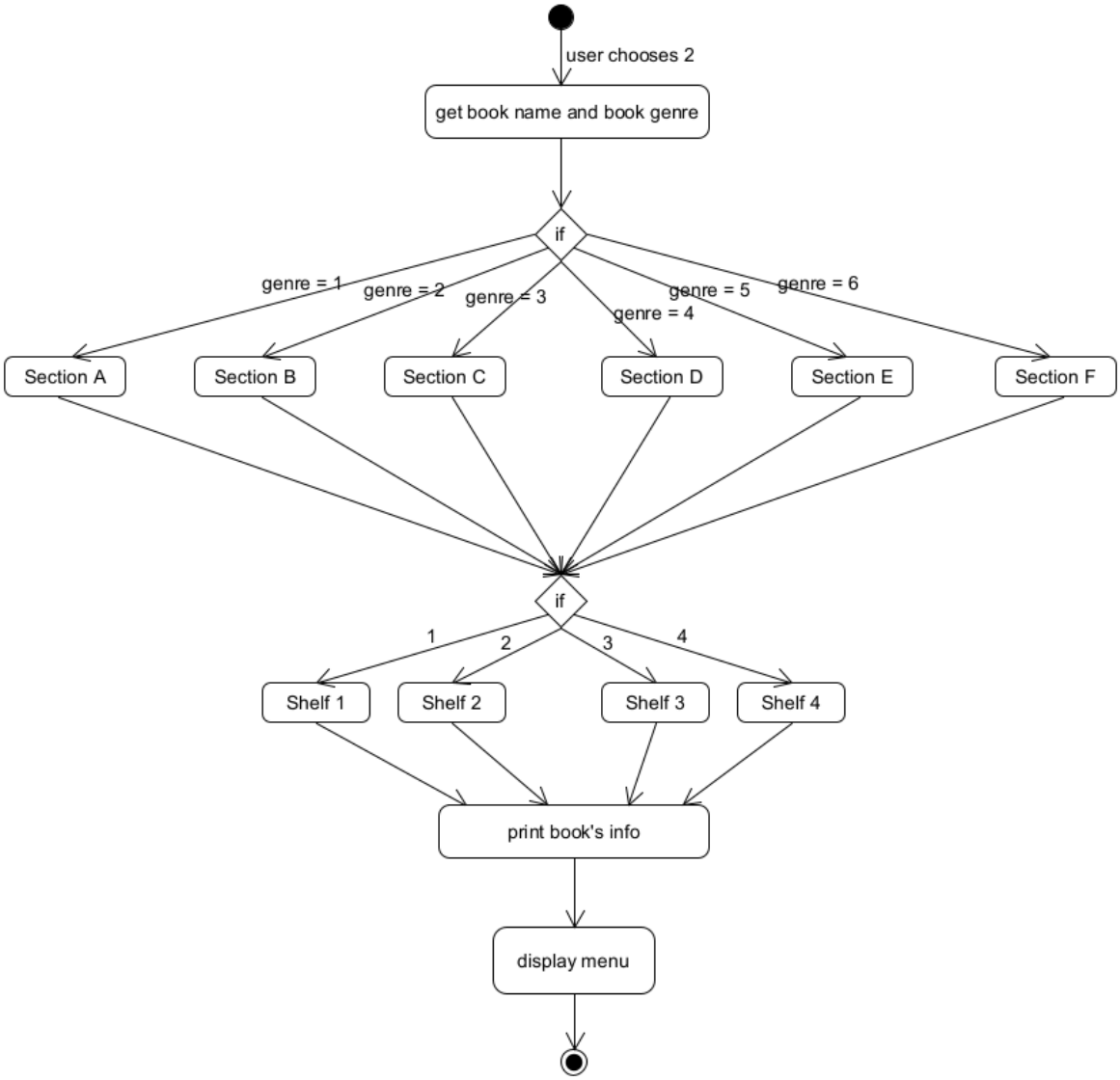
The system will continue to work until you choose to Quit. If you choose to Quit, the system will shut down.

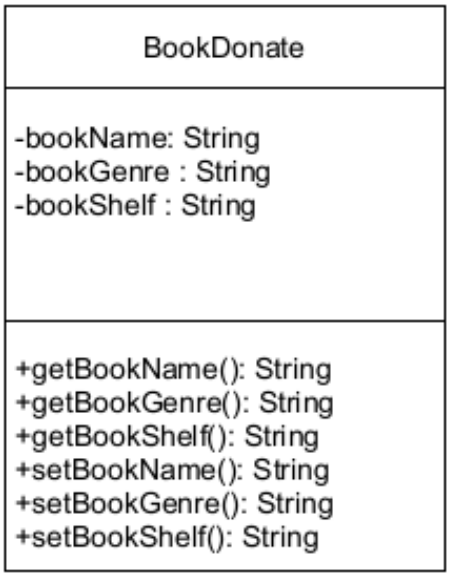
Book Search



BookSearch
-BookName: String -BookGenre: String -BookSection: String -BookShelf: String
+setBookName(): String +setBookGenre(): String +setBookSection(): String +setBookShelf(): String +getBookName(): String +getBookGenre(): String +getBookSection(): String +getBookShelf(): String

Book Donate


user chooses 2
get book name and book genre
if
genre = 1
genre = 2
genre = 3
genre = 4
genre = 5
genre = 6
Section A
Section B
Section C
Section D
Section E
Section F
if
1
2
3
4
Shelf 1
Shelf 2
Shelf 3
Shelf 4
print book's info
display menu


BookDonate
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-bookGenre : String
-bookShelf : String
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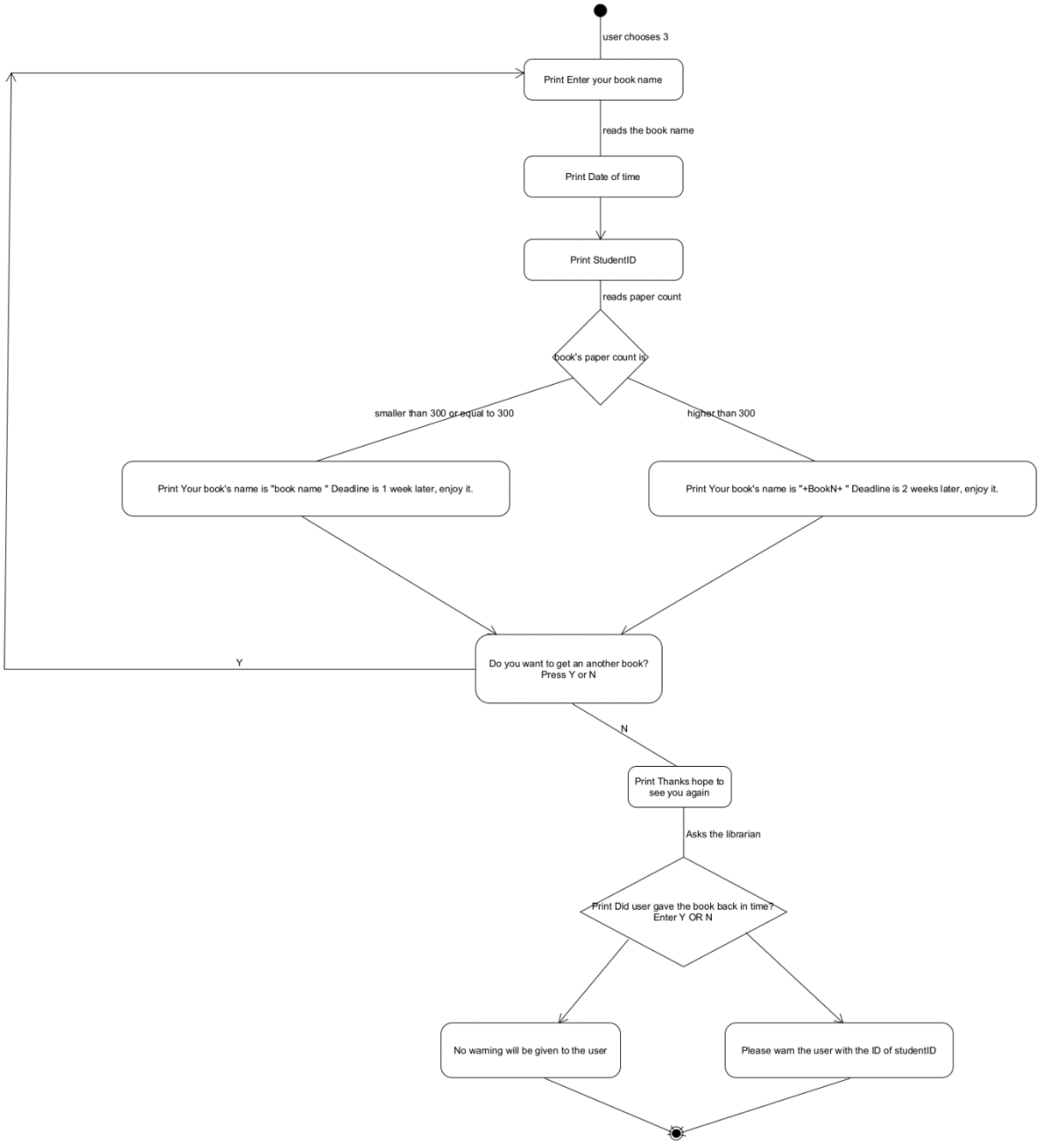
+getBookGenre(): String
+getBookShelf(): String
+setBookName(): String
+setBookGenre(): String
+setBookShelf(): String

Book Borrow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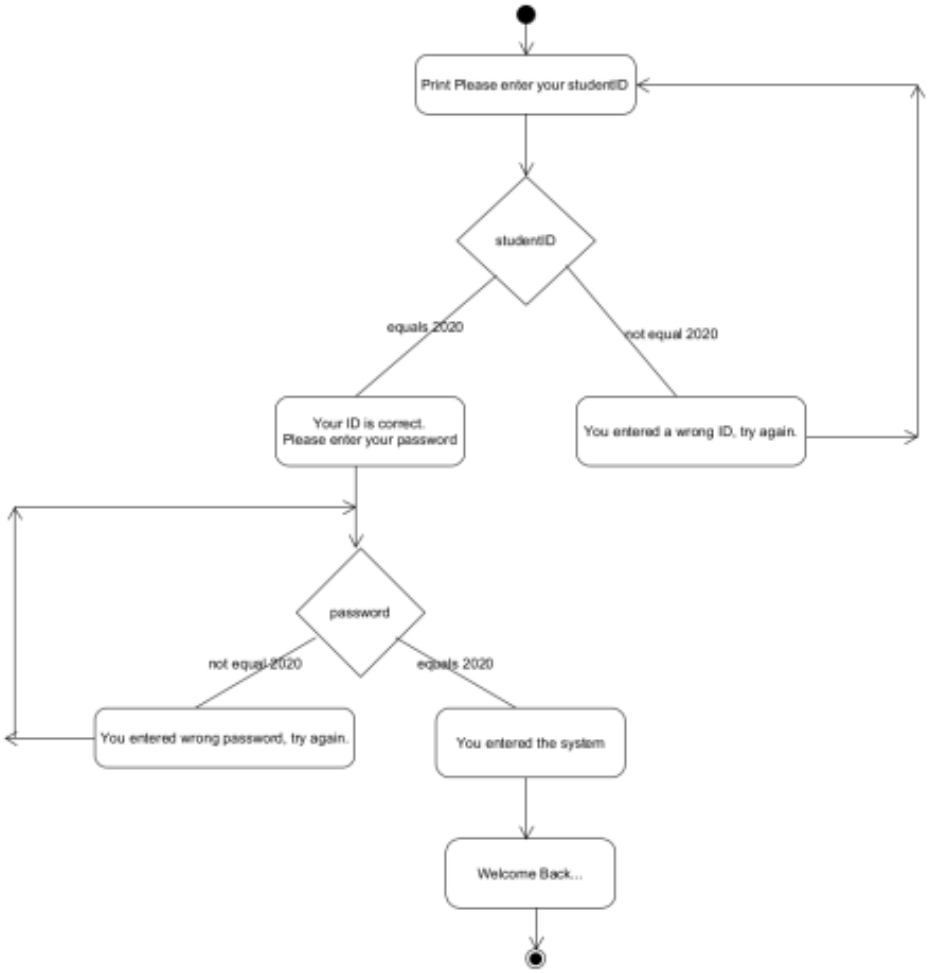
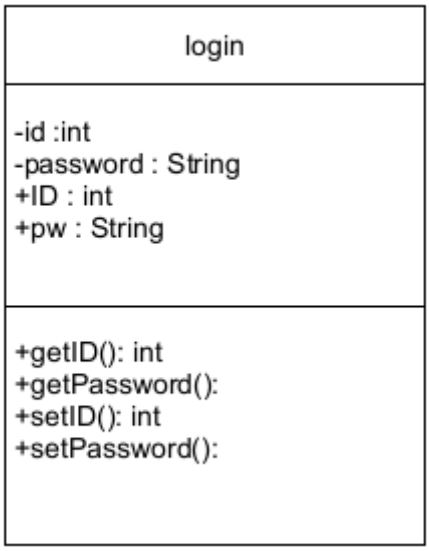
Print Enter your book name
reads the book name
Print Date of time
Print StudentID
reads paper count
book's paper count is
smaller than 300 or equal to 300
higher than 300
Print Your book's name is "book name " Deadline is 1 week later, enjoy it.
Print Your book's name is "+BookN+ " Deadline is 2 weeks later, enjoy it.
Do you want to get an another book?
Press Y or N
Y
N
Print Thanks hope to see you again
Asks the librarian
Print Did user gave the book back in time?
Enter Y OR N
No warning will be given to the user
Please warn the user with the ID of studentID

Login





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