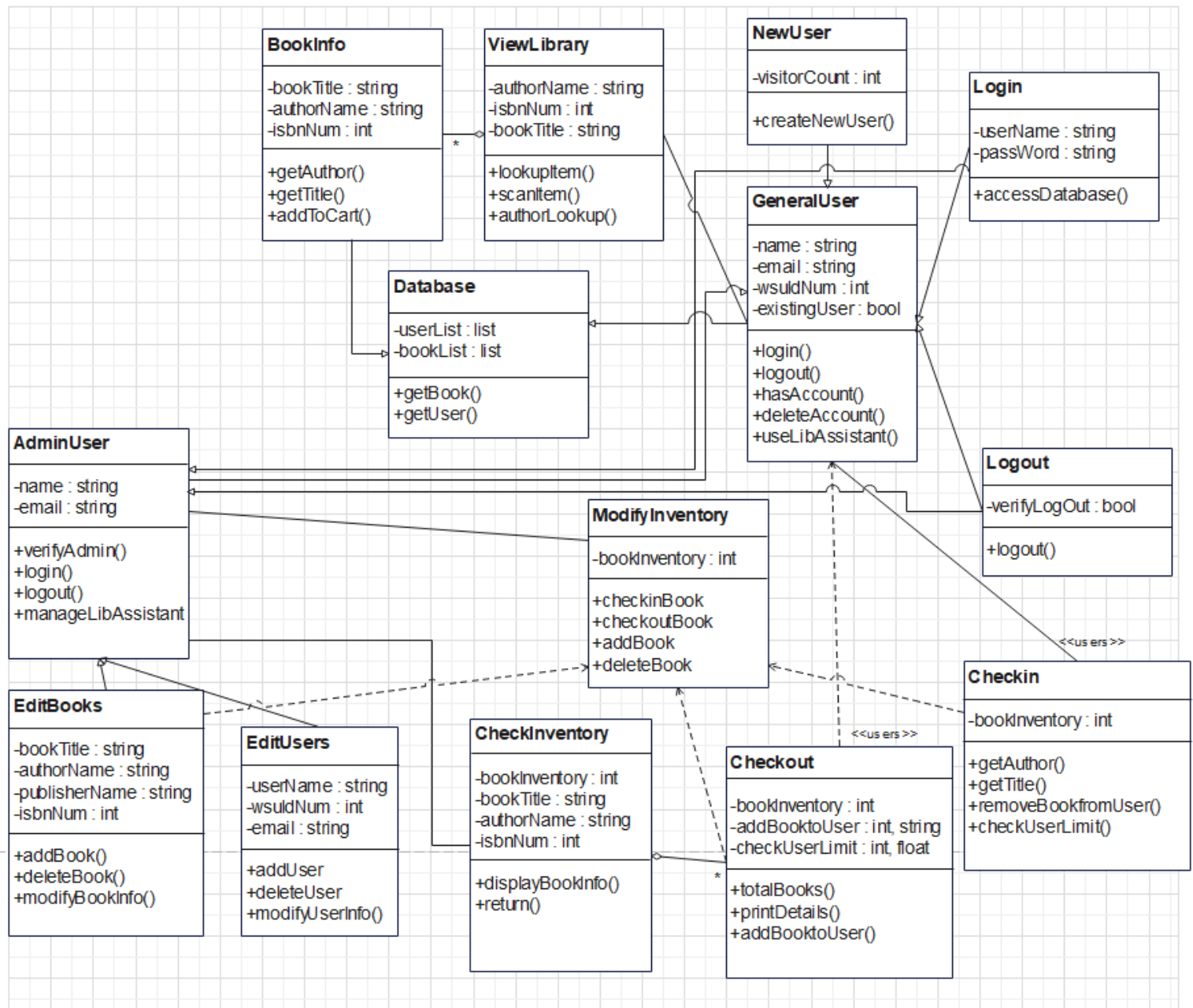
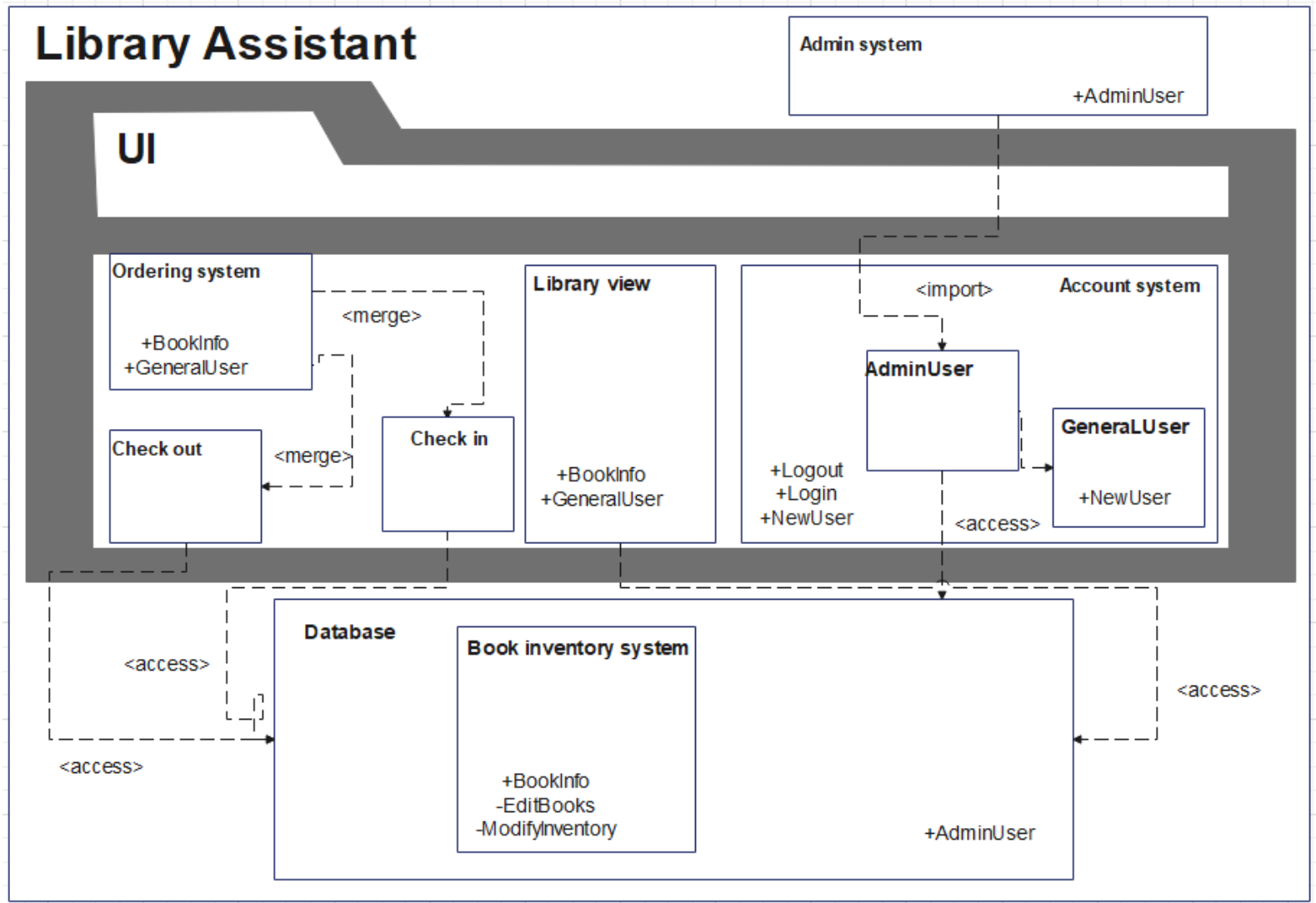


Analysis Class Modeling

Team Name: The Libarbarians

Class Diagram



Package Diagrams

CRC Index Cards

Class: Bookinfo	
Responsibility:	Collaborator:
Store book Title as a string (bookTitle)	
Store author name as a string (authorName)	
Store ISBN number as an integer (isbnNum)	

Class: Database	
Responsibility:	Collaborator:
Store books in the database with a List	BookInfo
Store users in the database with a list	GeneralUser
Get book with getBook()	Bookinfo
Get user with getUser()	GeneralUser

Class: ViewLibrary	
Responsibility:	Collaborator:
Store Bookinfo items in a list	BookInfo
Look up item by name with lookupItem()	Database
Look up item by author with autorLookup()	Database
Scan item with scanItem()	GeneralUser

Class: NewUser	
Responsibility:	Collaborator:
Store the visitor count	

Create a new user	GeneralUser
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Class: GeneralUser	
Responsibility:	Collaborator:
Store the name of the user with the string "name"	
Store the email of the user with the string "email"	
Store the WSU id number with the integer "wsuldNum"	
Allow user to Log out with logout()	Logout
Allow user to Log in with login()	Login
Checks if user has account with hasAccount()	Database
Allows the user to begin using the assistant with useLibAssistant()	

Class: LogIn	
Responsibility:	Collaborator:
UserName string for checking username	GeneralUser
PassWord string for checking password	GeneralUser
Gives user access to the database accessDatabase()	GeneralUser

Class: LogOut	
Responsibility:	Collaborator:
Verifies logout with verifyLogOut boolean	
Performs logout with the logout() function	GeneralUser

Class: AdminUser	
Responsibility:	Collaborator:
Stores name as a string "name"	
Stores email as a string "email"	
Checks if user is admin with VerifyAdmin() function	Login
Logs user in with login()	Login
Logs user out with logout()	Logout

Class: ModifyInventory	
Responsibility:	Collaborator:
Check in book	Checkin
Check out book	Checkout
add a Book	EditBooks
Delete a book	EditBooks

Class: EditBooks	
Responsibility:	Collaborator:
AddBook()	Database
deleteBook()	Database

Class: EditUsers	
Responsibility:	Collaborator:
AddUser()	NewUser
DeleteUser()	Database
modifyUserInfo()	Database

Class: CheckInventory	
Responsibility:	Collaborator:
Display info from books with displayBookInfo()	Database
Return back with return()	
Store current/selected book title with bookTitle string	
Store current/selected book author with boothAuthor string	
Store current/selected book isbn number with int isbnNum	
Store book count with the integer bookInventory	

Class: Checkout	
Responsibility:	Collaborator:
Store book count with the integer bookInventory	
Add book to a user with addBooktoUser()	GeneralUser

Class: Checkin	
Responsibility:	Collaborator:
checkUserLimit()	GeneralUser
Remove book from user's account with removeBookFromUser()	GeneralUser
Get which books are being checked out with totalBooks()	
Print the details of the transaction with printDetails()	