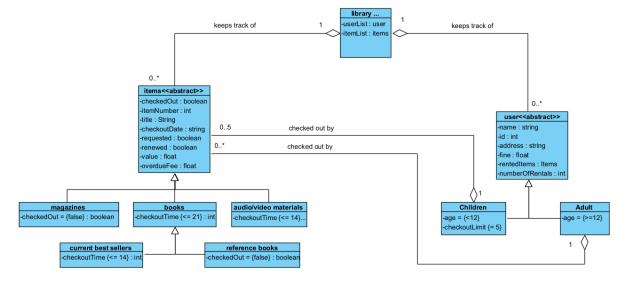
## **Program Requirements**

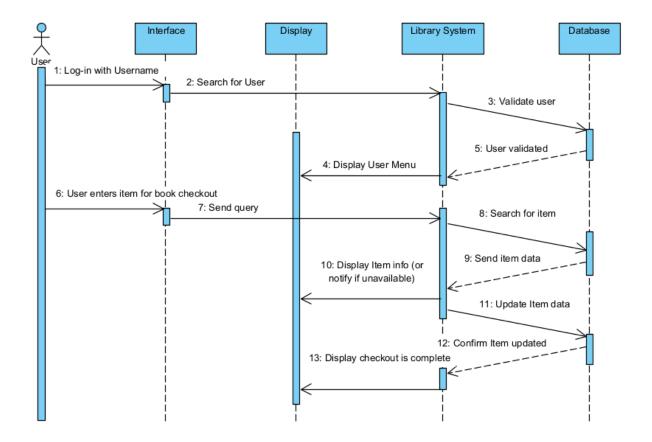
- Each user has one unique library card for as long as they are in the system.
- The library needs to know the name, address, phone number, and library card number for each user.
- At any particular point in time, the library may need to know or to calculate the items a user has checked out, when they are due, and any outstanding overdue fines.
- 4. Children (<=12) can only check out five items at a time.
- 5. A user can check out books or audio/video materials.
- Books are checked out for three weeks, unless they are current best sellers, in which case the limit is two weeks.
- 7. Audio/video materials may be checked out for two weeks.
- The overdue fine is ten cents per item per day, but cannot be higher than the value of the overdue item.
- 9. The library also has reference books and magazines, which cannot be checked out.
- 10. A user can request a book or audio/video item that is not currently in.
- 11. A user can renew an item once (and only once), unless there is an outstanding request for the item, in which case the user must return it.

## Class Diagram



Eyman Ahmed Joseph Antholzner Charlie Cox Bryan Patrick King Schilhab

## Item Checkout Sequence Diagram



Joseph Antholzner
Charlie Cox
Bryan Patrick King Schilhab

## Item Return Sequence Diagram

