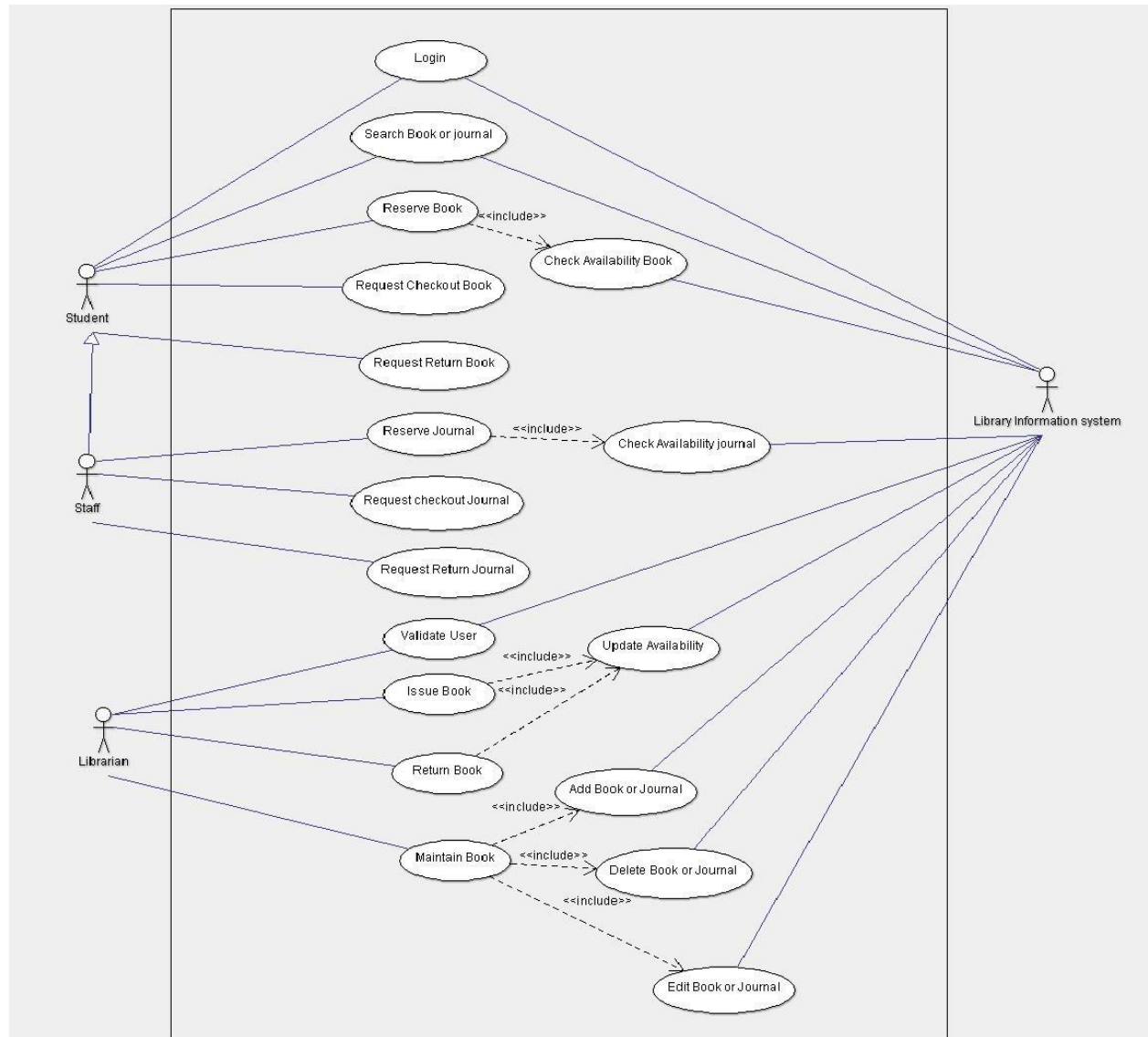


### ASSIGNMENT-3

## Library Management System



### ACTORS

- Student
- Staff
- Librarian
- Library Information System

## Use Cases

Login, Search Book or Journal, Reserve Book, Request Checkout Book, Request Return Book, Reserve Journal, Request Checkout Journal, Request Return Journal, Check Availability of Book, Check Availability of Journal, Validate User, Issue Book, Return Book, Update Availability, Maintain Book, Add Book or Journal, Delete Book or Journal, Edit Book or Journal.

## Use Case Scenario

### **Use Case Scenario 1:- Actor – Student**

1. Student Login's to the Library System.
2. The Student Account is validated and He/she is Logged In.
3. Student searches for the required Book.
4. The book is checked for availability in System and is displayed.
5. Student Request's to reserve the book.
6. The system checks for the availability of the book requested using the details of the book in the System.
7. The request gets accepted if the book is available else there is a message that it is not available.
8. The request gets accepted.
9. The student then request for checkout of the book.
10. The student is given a specific time period for checking out the book.
11. The student cannot checkout if time period expires and he/she should repeat the process to get the book.
12. The return request is raised after the usage or when it is due of the book.
13. The book gets returned.

### **Use Case Scenario 2:- Actor – Staff**

1. Staff Login's to the Library System.
2. The Staff Account is validated and He/she is Logged In.
3. Staff searches for the required Journal.
4. The Journal is checked for availability in System and is displayed.
5. Staff Request's to reserve the Journal.

6. The system checks for the availability of the Journal requested using the details of the Journal in the System.
7. The request gets accepted if the Journal is available else there is a message that it is not available.
8. The request gets accepted.
9. The Staff then request for checkout of the Journal.
10. The Staff is given a specific time period for checking out the Journal.
11. The Staff cannot checkout if time period expires and he/she should repeat the process to get the Journal.
12. The return request is raised after the usage or when it is due of the Journal.
13. The Journal gets returned.

#### **Use Case Scenario 3:- Actor – Librarian**

1. Librarian validates the student/staff who has come for checkout.
2. The book is issued If the student/staff as no pending.
3. The system is updated by the librarian with user borrowed details.
4. The student/staff is asked to return the book/journal that they have borrowed earlier if there is pending and the book is not issued.
5. After issuing when there comes a return request from a user again the Librarian validates the user from the information in System and checks for what book/journal is to be returned.
6. The Librarian accepts the return request after identifying the book/Journal and matching it with the book to be returned.
7. The return gets initiated and the Librarian updates the availability of the book.

#### **Use Case Scenario 4:- Actor – Librarian**

1. Librarian also maintains the System.
2. The system gets updated if there comes a new book.
3. The system gets updated if a book as to be deleted or modified in order to reflect the changes.

## Use Case Scenario 5:- Actor – Library Information System

1. Library Information System validates the user when he/she log in using the information present in it.
2. Library information retrieves and gives the details of the book or journal when a request is made.
3. The reserve book or reserve journal request, gets validated by the system and the system displays message accordingly on the availability of it in the record present in system.
4. The request gets accepted and the information gets updated if it is available.
5. The reservation gets cancelled by the system after time period for the checkout gets over.
6. The Library information system retrieves and presents the record present in it during checkout.
7. The system gets updated if the records match on obtaining an issue request with due date name of person borrowed and its availability in the system.
8. The Library information system retrieves and presents the record present in it during return regarding the user and the book/journal borrowed by him.
9. The system gets updated if the records match with that of the obtained return request and the system updates its availability and updates the record and the book/journal is returned.

## User Stories

1. As a Student I want to **login** so that I can search for books.
2. As a student I want to **search** the books so that I can reserve them.
3. As a student I want to **reserve the book** so that I can use them.
4. As a student I want to **request checkout Book** so that I can use it.
5. As a student I want to **request return Book** so that I can return the book.
6. As a Staff I want to **login** so that I can search for Journal/Book.
7. As a Staff I want to **search** the Journal/Book so that I can reserve them.
8. As a Staff I want to **reserve the Journal** so that I can use them.
9. As a Staff I want to **request checkout journal** so that I can use it.

- 10.As a Staff I want to **request return journal** so that I can return the Journal.
- 11.As a Staff I want to **reserve the Book** so that I can use them.
- 12.As a Staff I want to **request checkout Book** so that I can use it.
- 13.As a Staff I want to **request return Book** so that I can return the Journal.
- 14.As a Librarian I want to **validate the user** so that I can issue or return the book.
- 15.As a librarian I want to **issue the book** so that I can process the request checkout of book/journal from student/staff.
- 16.As a librarian I want to **obtain the book** returned so that I can process the request return of book/journal from student/staff.
- 17.As a librarian I want to **maintain the book** record so that it can be updated in the Library Information System.
- 18.As a Library Information System I want to **return details** of the availability of the book so that I can process reserve book/journal.
- 19.As a Library information System I want to **validate the login** so that the user can login and search book/journal.
- 20.As a Library information System I want to **find availability** so that the availability status of the book is known.
- 21.As a Library information System I want to **validate the user** so that the book can be issued or returned.
- 22.As a Library information System I want to **update availability** so that others can raise a request or not.
- 23.As a Library information System I want to **add book or journal** so that it can be reflected in the Library Information System and can be used by users.
- 24.As a Library information System I want to **delete book or journal** so that it can be reflected in the Library Information System and users cannot find that book anymore.
- 25.As a Library information System I want to **edit book or journal** so that it can be reflected in the Library Information System and can be used by users.