Swimlane Diagram:

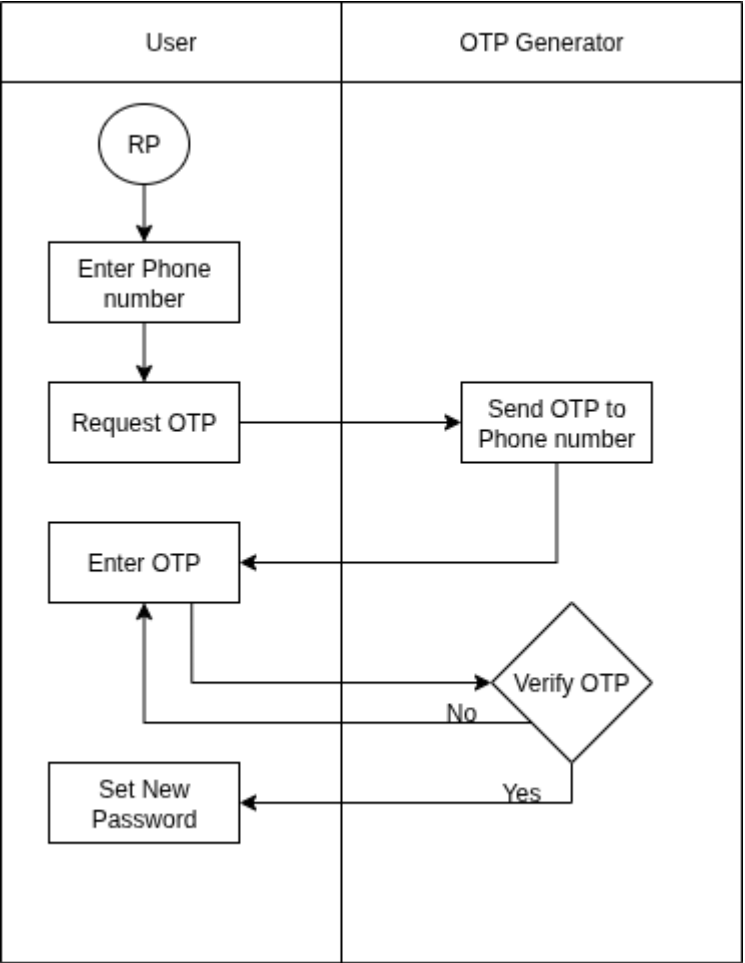**Level:** 1.1
Name: Registration & Login
Reference: Activity Diagram Level 1.1

User	OTP Generator

Reg

Select User Type

Enter Role Specific Data

Request OTP → Send OTP

Enter OTP

Verify OTP

No

Yes

Login

User	OTP Generator

```
        ( RP )
          |
          v
   +----------------+
   | Enter Phone    |
   | number         |
   +----------------+
          |
          v
   +----------------+          +-------------------+
   | Request OTP    |--------->| Send OTP to       |
   +----------------+          | Phone number      |
                               +-------------------+
                                        |
   +----------------+                   |
   | Enter OTP      |<------------------+
   +----------------+
       ^      |
       |      |                    / Verify OTP \
       |      +------------------>(  Verify OTP  )
       |                     No    \           /
       +--------------------------- 
                                        |
   +----------------+            Yes    |
   | Set New        |<------------------+
   | Password       |
   +----------------+
```
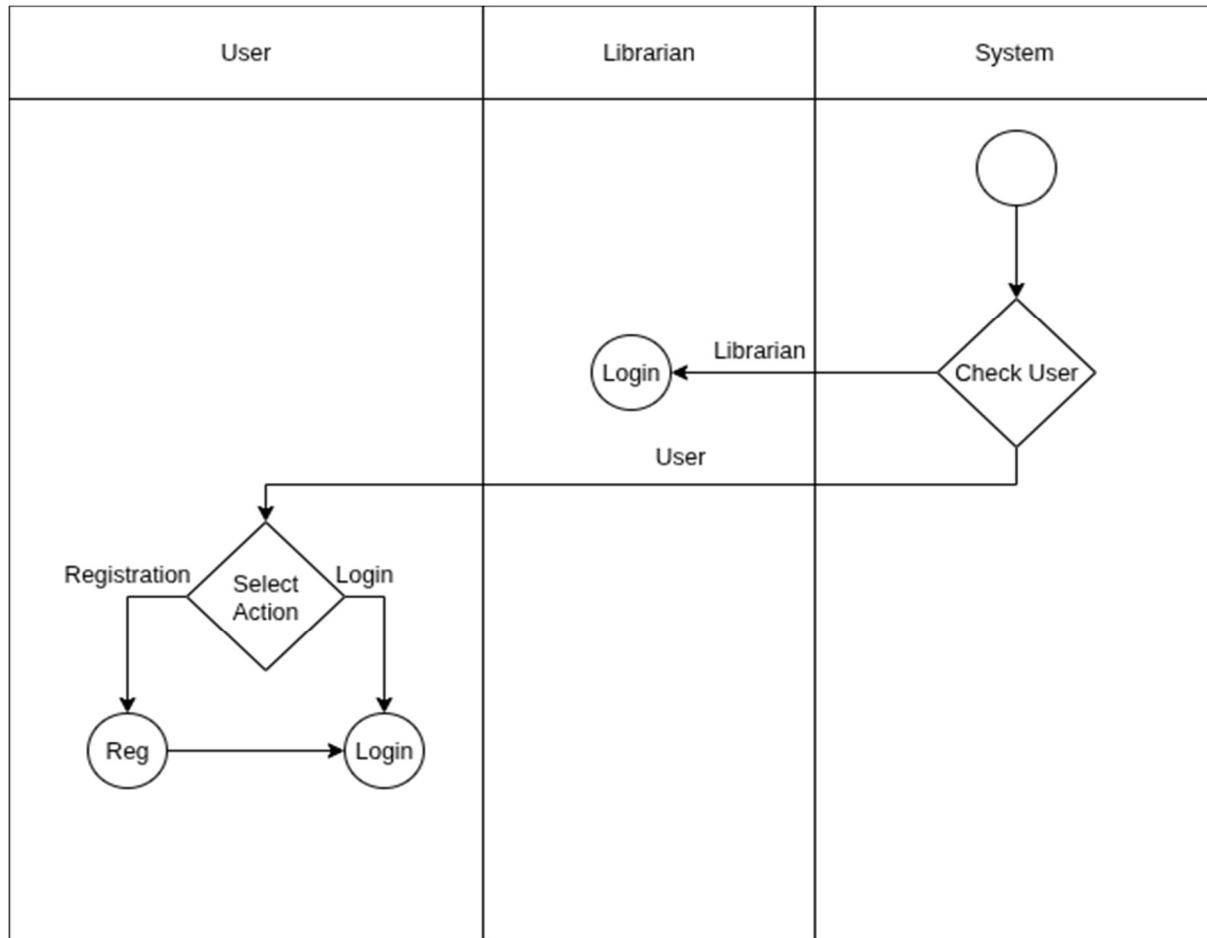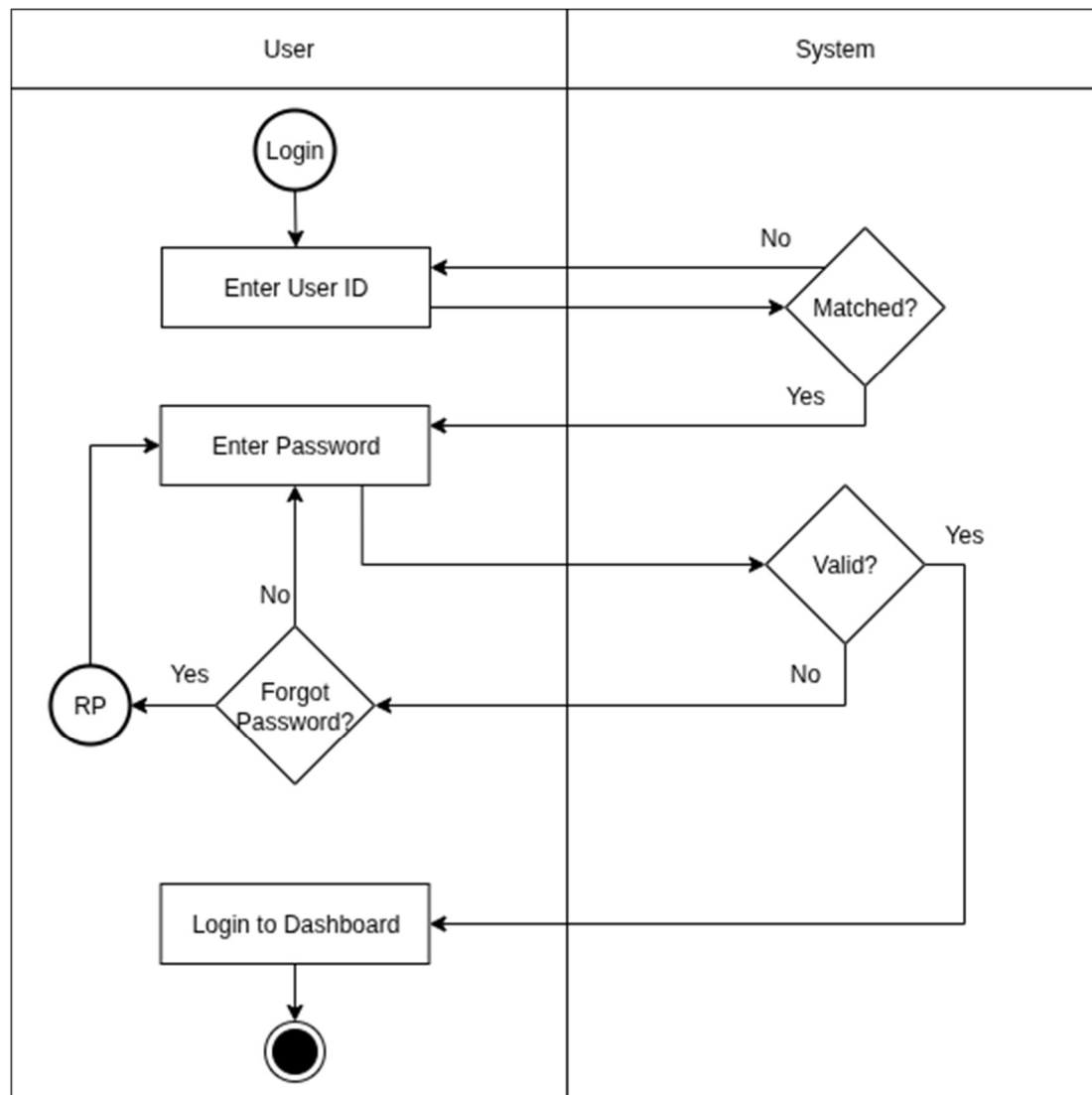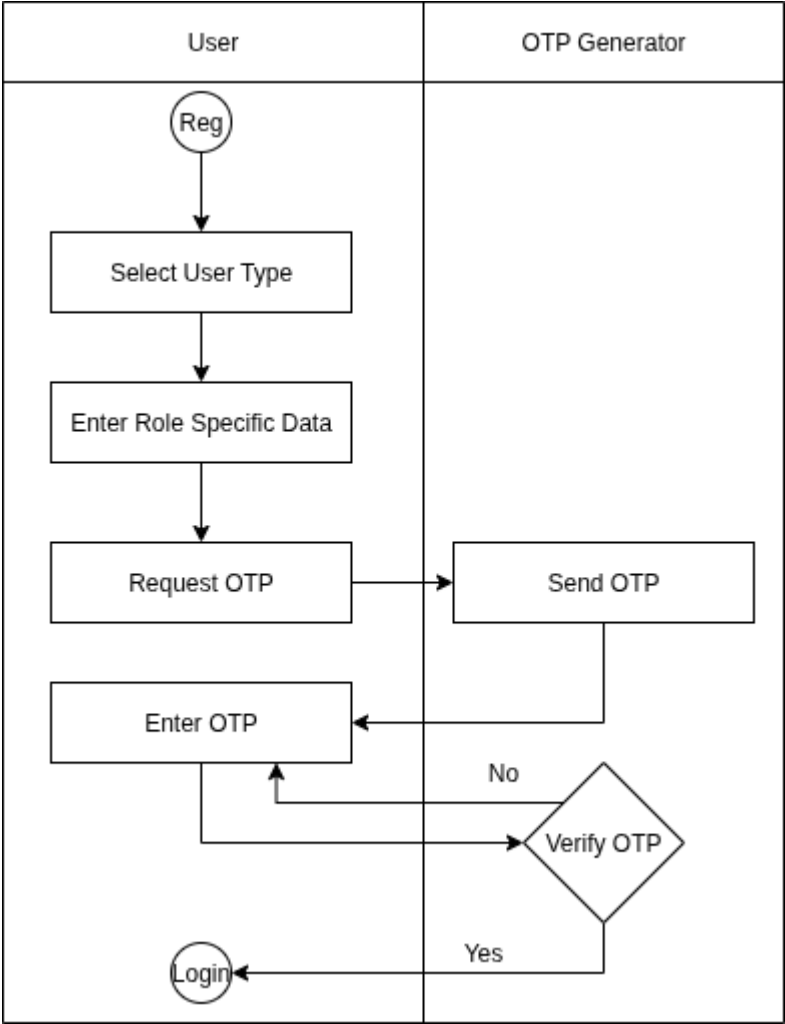
Level: 1.2
Name: Dashboard
Reference: Activity Diagram Level 1.2

User	System	Librarian
User View	Check User (●)	Librarian View
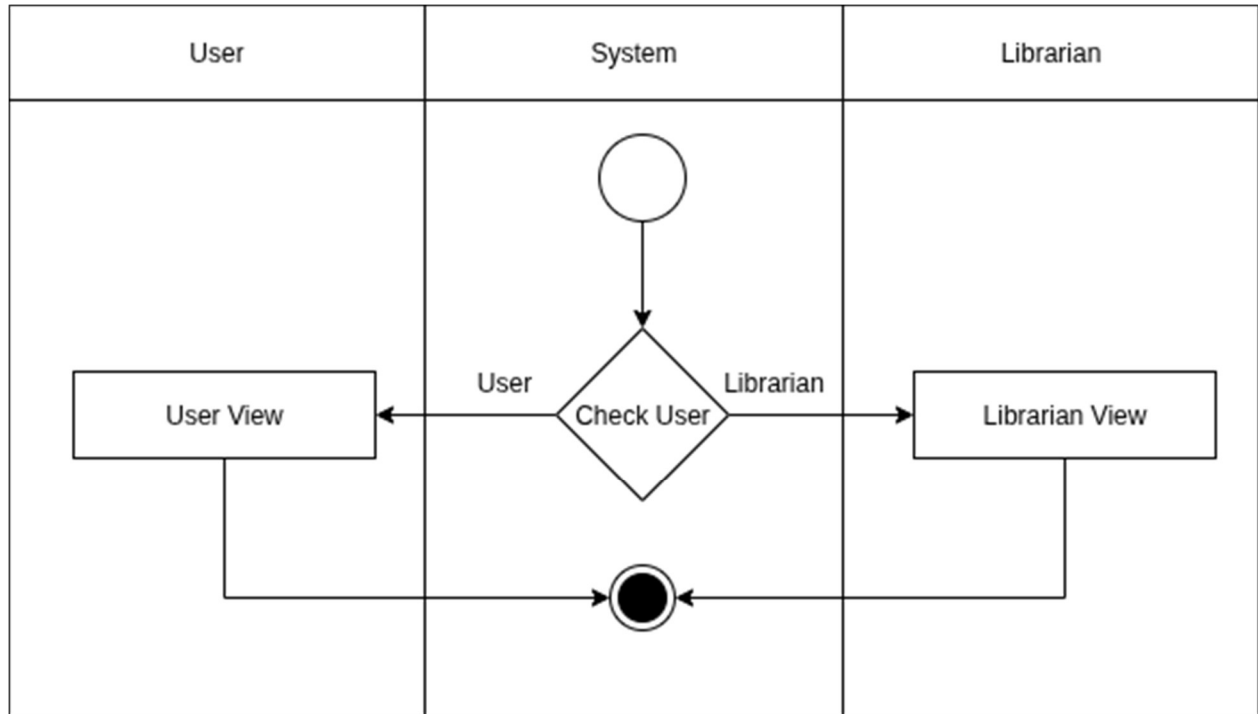
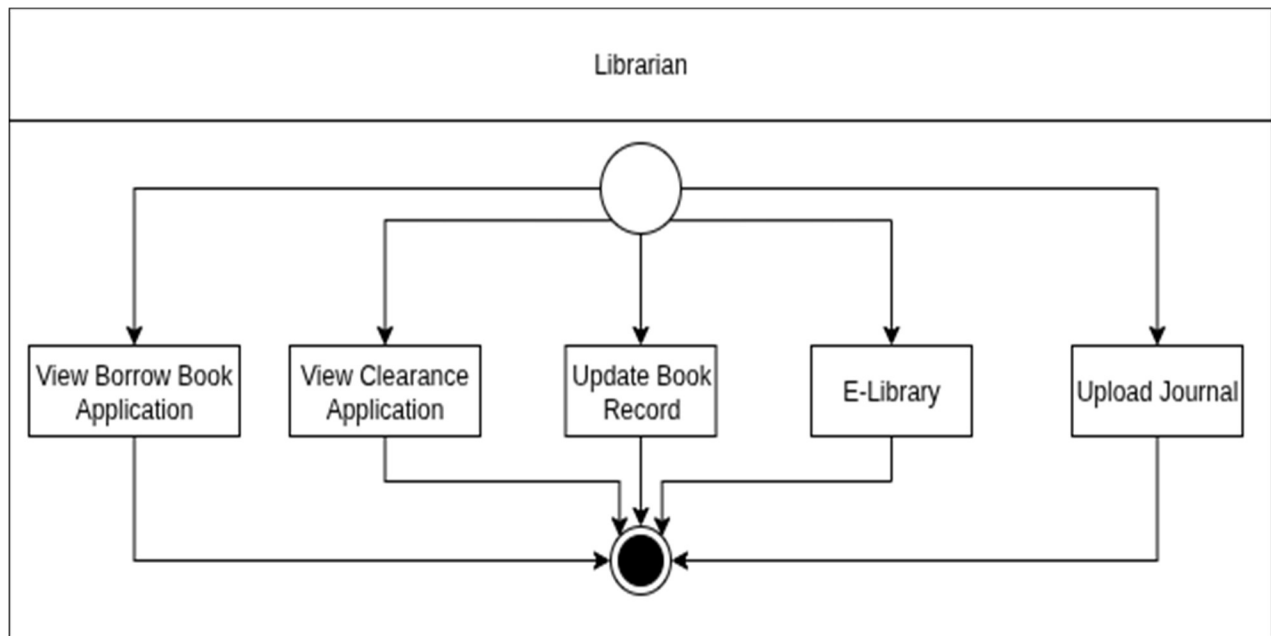**Level:** 1.2.1
Name: User View
Reference: Activity Diagram Level 1.2.1
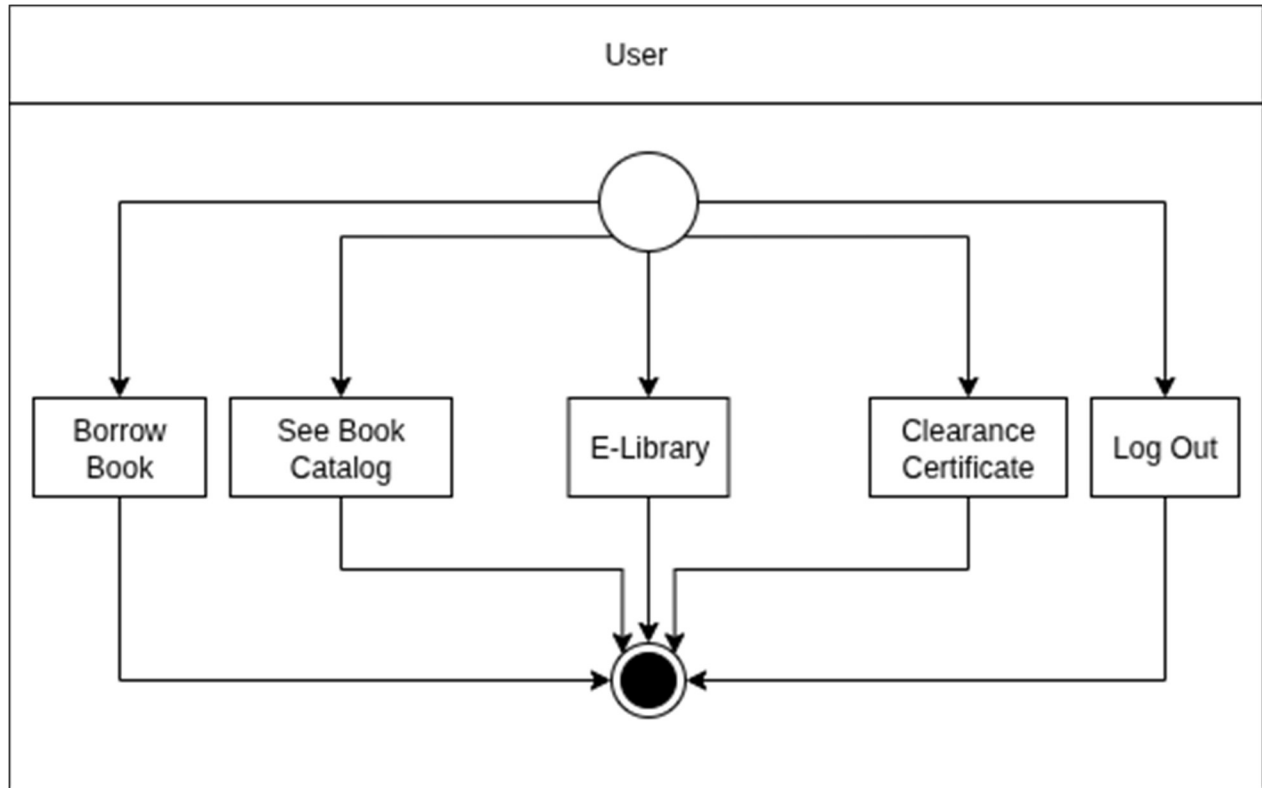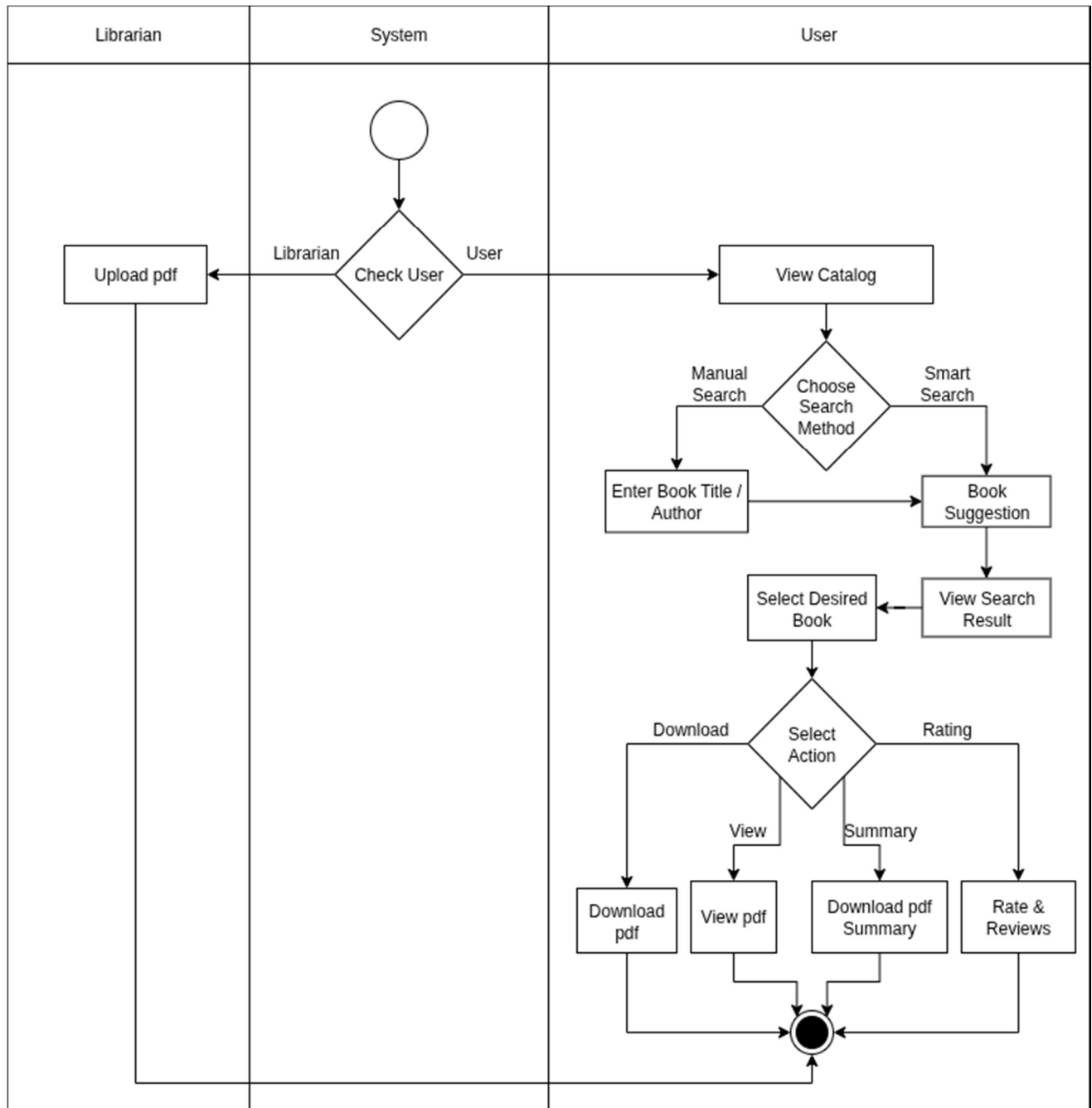
Level: 1.2.2
Name: Librarian View
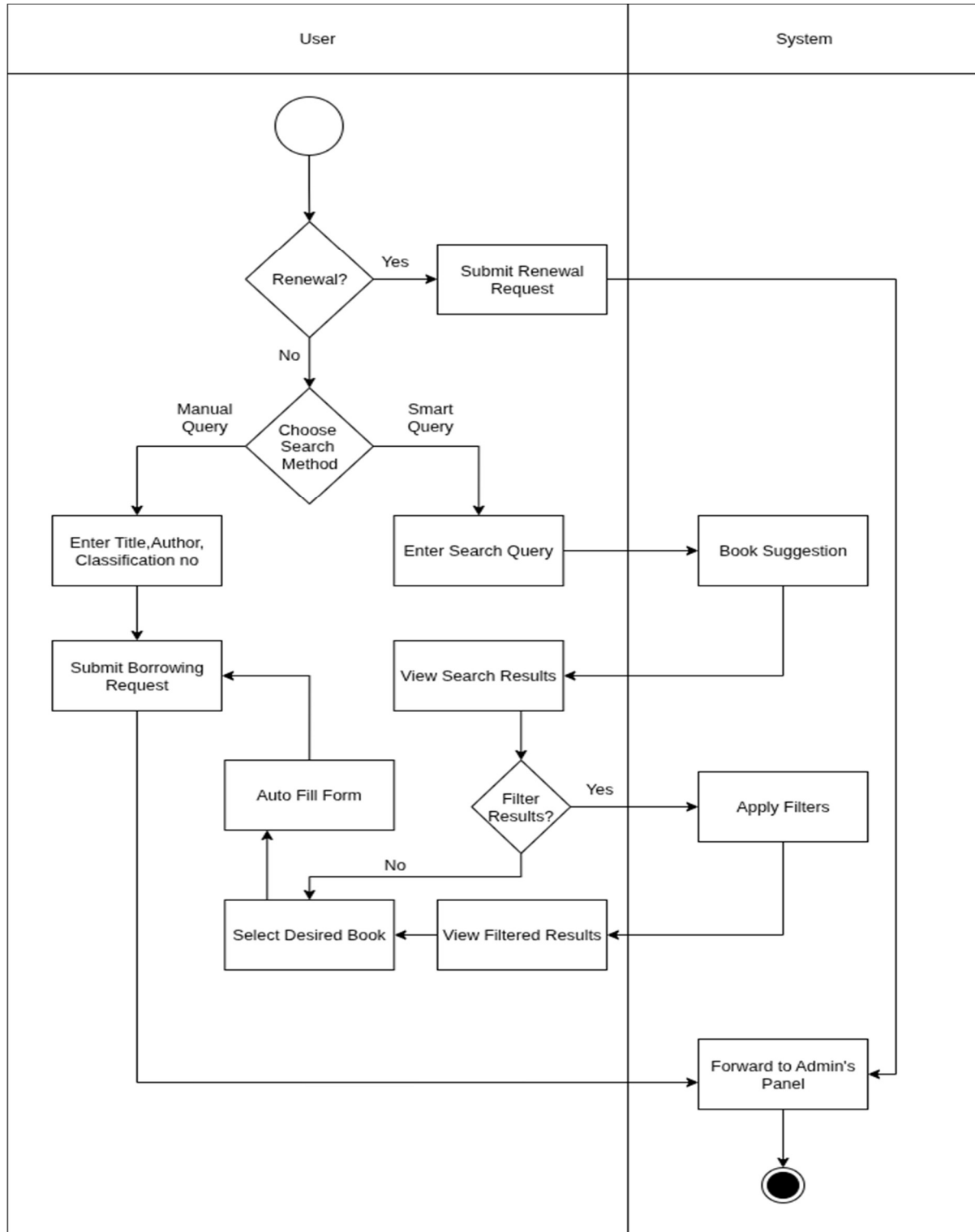**Reference:** Activity Diagram Level 1.2.1

Level: 1.3
Name: E-library
Reference: Activity Diagram Level 1.3
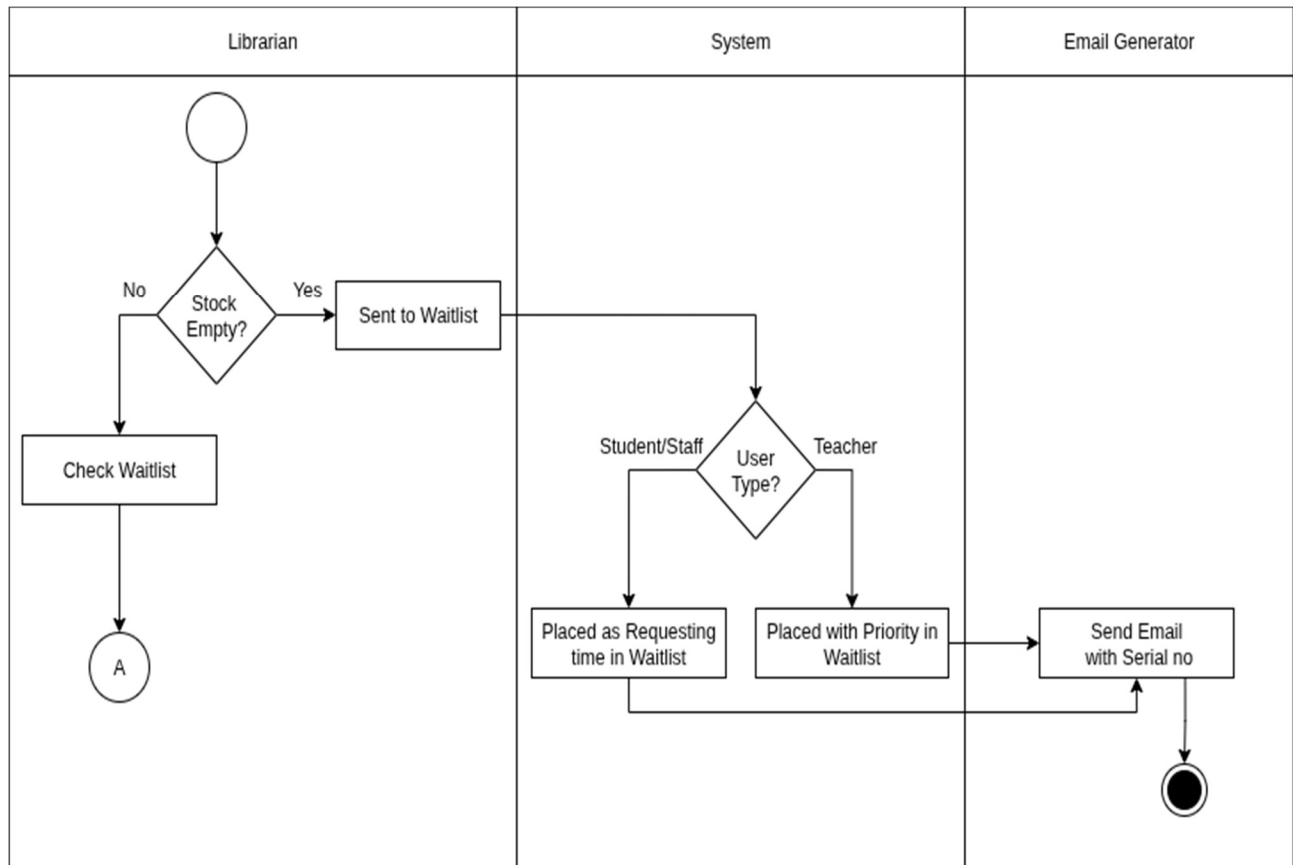
Level: 1.4
Name: Borrow Book
Reference: Activity Diagram Level 1.4

Level: 1.5.1
Name: Availability
Reference: Activity Diagram Level 1.5.1

Librarian	System	Email Generator

```
Librarian:
  (start) → Stock Empty?
    No → Check Waitlist → (A)
    Yes → Sent to Waitlist

System:
  Sent to Waitlist → User Type?
    Student/Staff → Placed as Requesting time in Waitlist
    Teacher → Placed with Priority in Waitlist

Email Generator:
  Send Email with Serial no → (end)
```

Level: 1.5.2
Name: Eligibility
Reference: Activity Diagram Level 1.5.2
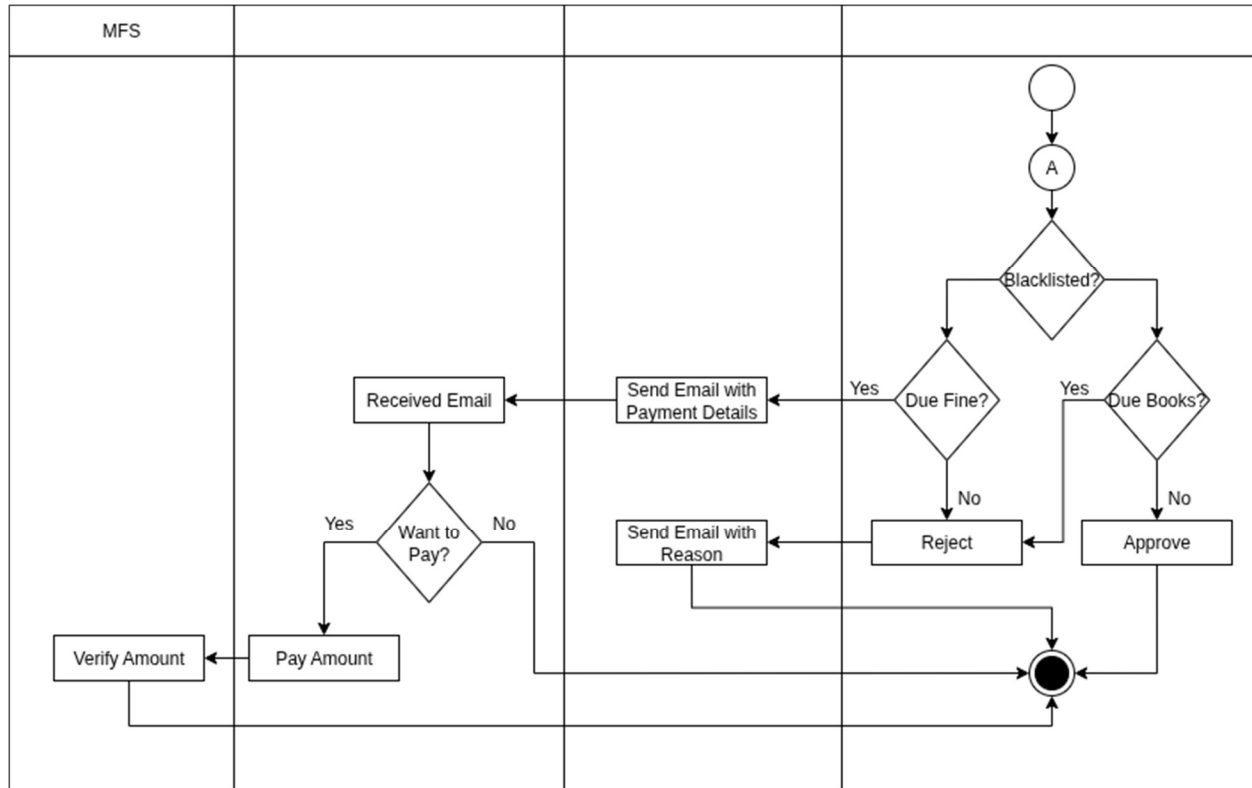
Level: 1.6
Name: Clearance
Reference: Activity Diagram Level 1.6

User	Librarian	Email Generator	System
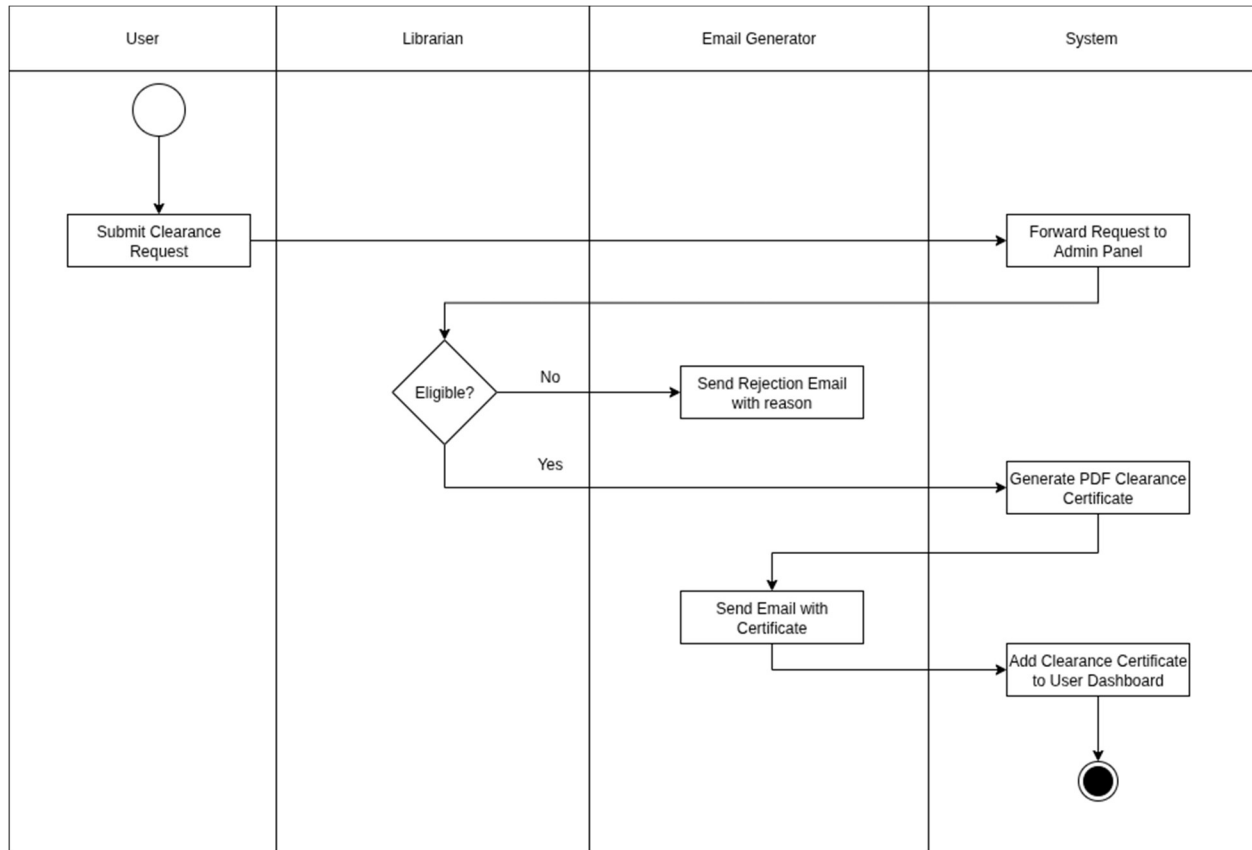
Level: 1.7
Name: Eligibility
Reference: Activity Diagram Level 1.7

BPC	Email Generator	Librarian	System

BPC
- Received Email
- Send List

Email Generator
- Send Email to BPC
- Forward to Librarian

Librarian
- Action
  - Add
  - Delete
- Request BPC for input
- Search by Book Classification no.
- Select Desired Book
- Add to Archive List
- Received List

System
- Already Exists?
  - Yes → Update Stock
  - No → Add to Catalog