Activity Diagram:
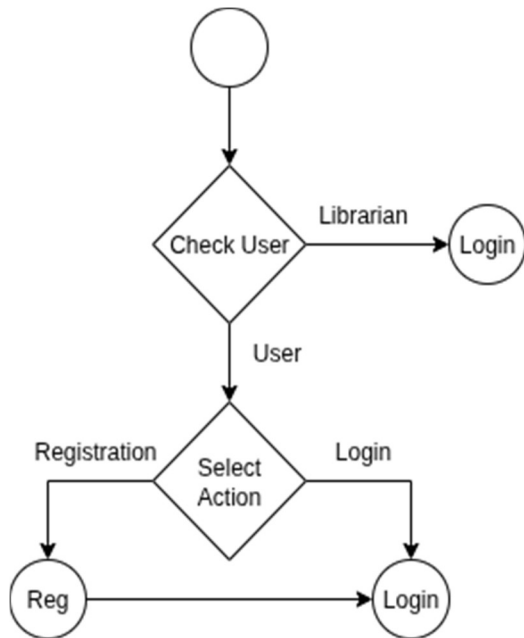
Level: 1.1
Name: Registration & Login
Reference: Use Case Diagram Level 1.1

Reset Password (RP)

```
        ( RP )
          |
          v
  +----------------+
  | Enter Phone    |
  | number         |
  +----------------+
          |
          v
  +----------------+
  | Send OTP to    |
  | Phone number   |
  +----------------+
          |
          v
  +----------------+
  | Enter OTP      | <------+
  +----------------+        |
          |                 |
          v             No  |
     < Verify OTP > --------+
          |
      Yes |
          v
  +----------------+
  | Set New        |
  | Password       |
  +----------------+
```

Login

```
      ( Login )
          |
          v
  +----------------+
  | Enter User ID  |
  +----------------+
          |
          v
     < Matched? >
          |
          v
  +----------------+ <----------------------+
  | Enter Password | <----------+           |
  +----------------+            |           |
          |                  No |           |
          v                     |           |
     < Valid? > --No--> < Forgot Password? >|
          |                        |        |
      Yes |                   Yes  |        ( RP )
          v                        +--------+
  +------------------+
  | Login to Dashboard|
  +------------------+
          |
          v
         (●)
```
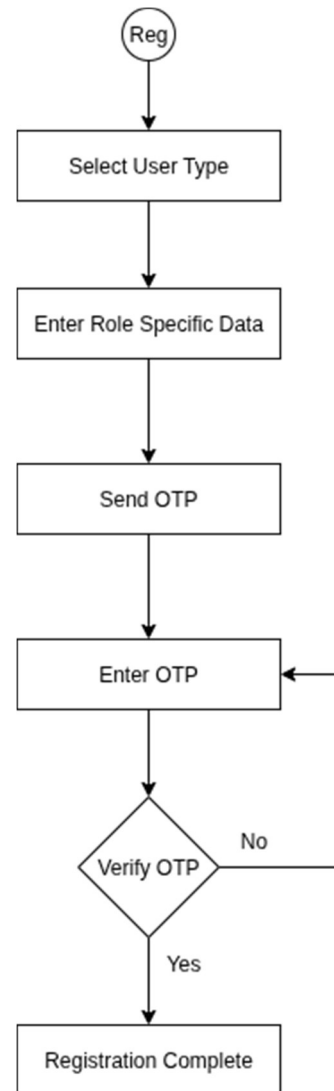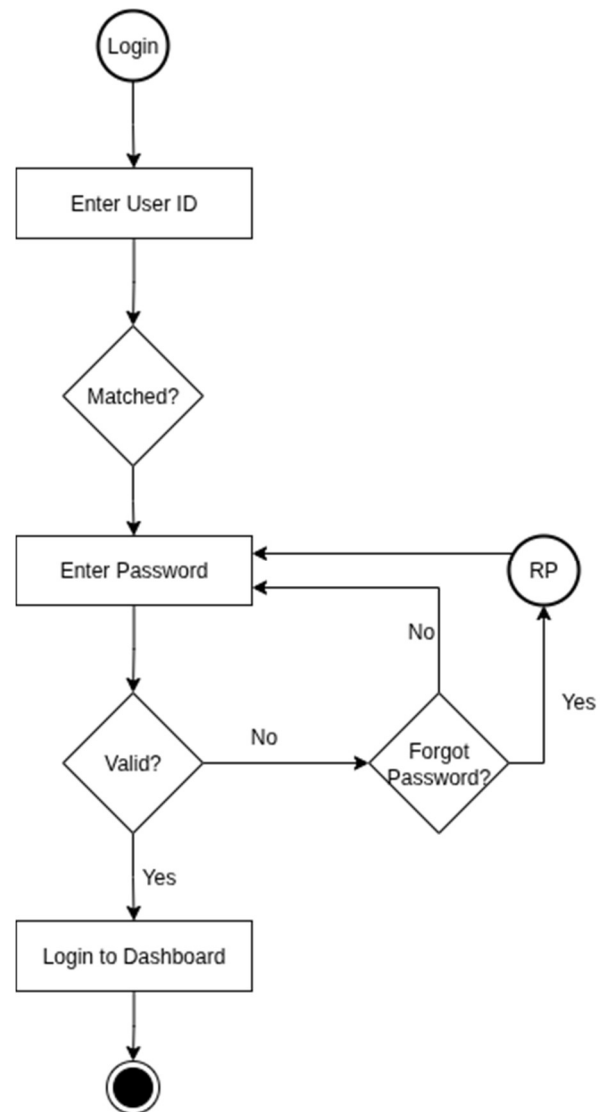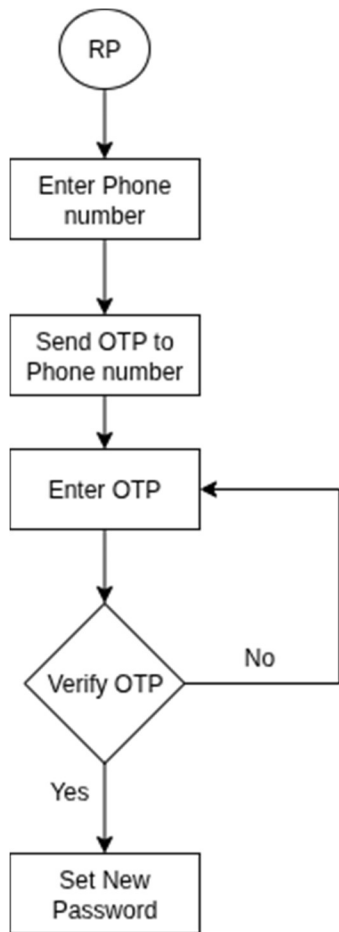
Level: 1.2
Name: Dashboard
Reference: Use Case Diagram Level 1.2

User

Librarian

Check User

User View
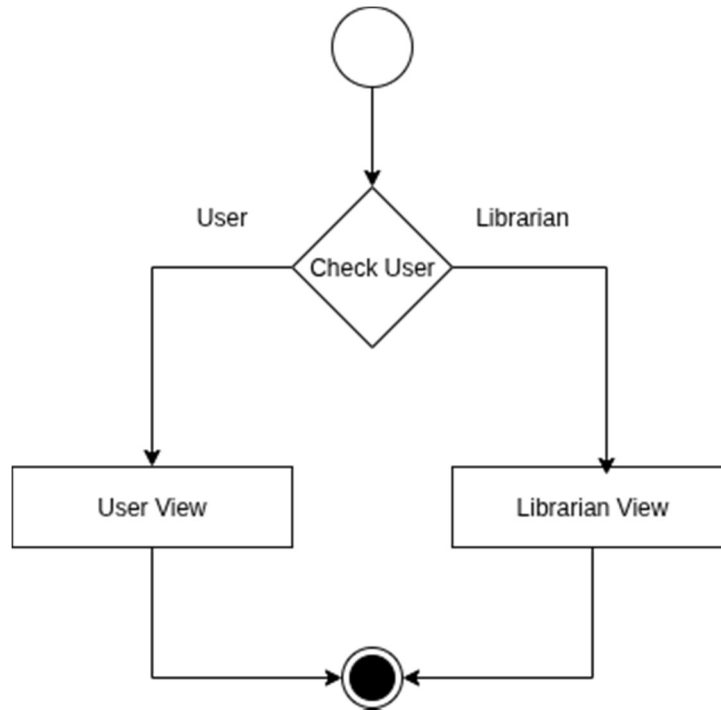
Librarian View
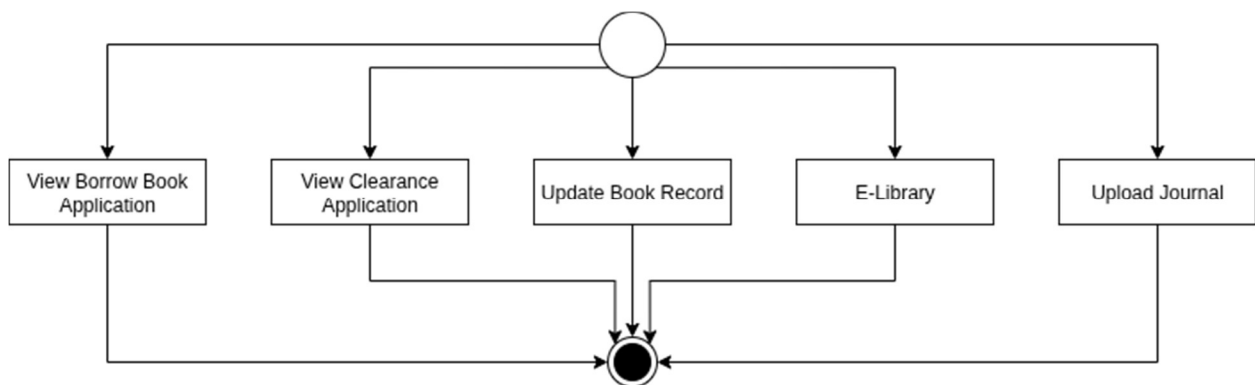
Level: 1.2.1
Name: User View
Reference: Use Case Diagram Level 1.2.1
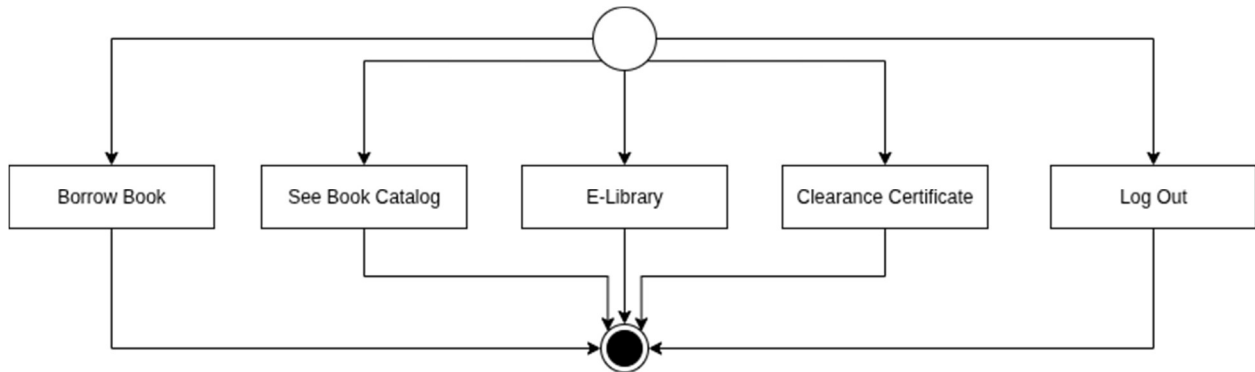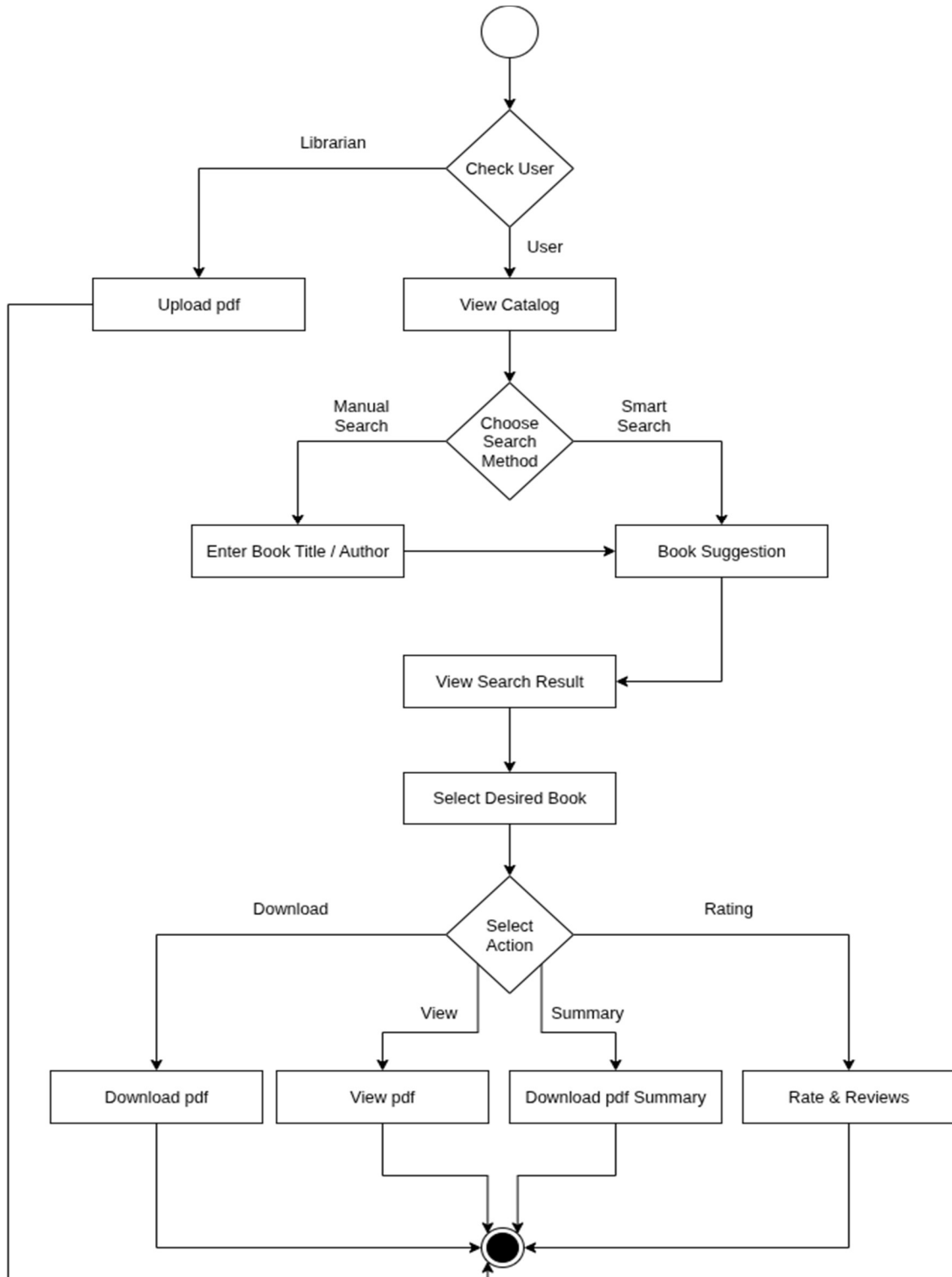

Level: 1.2.2
Name: Librarian View
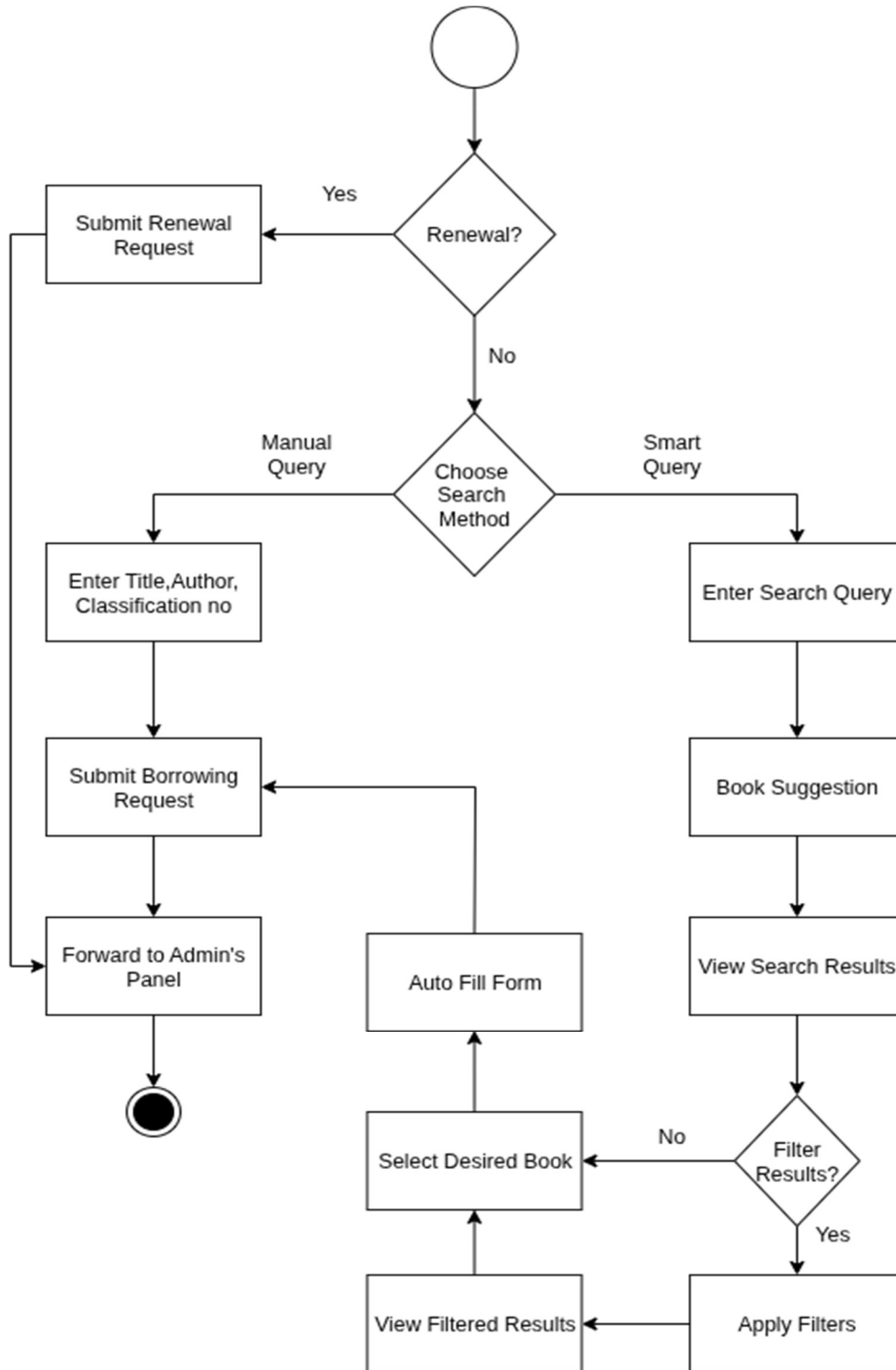**Reference:** Use Case Diagram Level 1.2.1

Level: 1.3
Name: E-library
Reference: Use Case Diagram Level 1.3
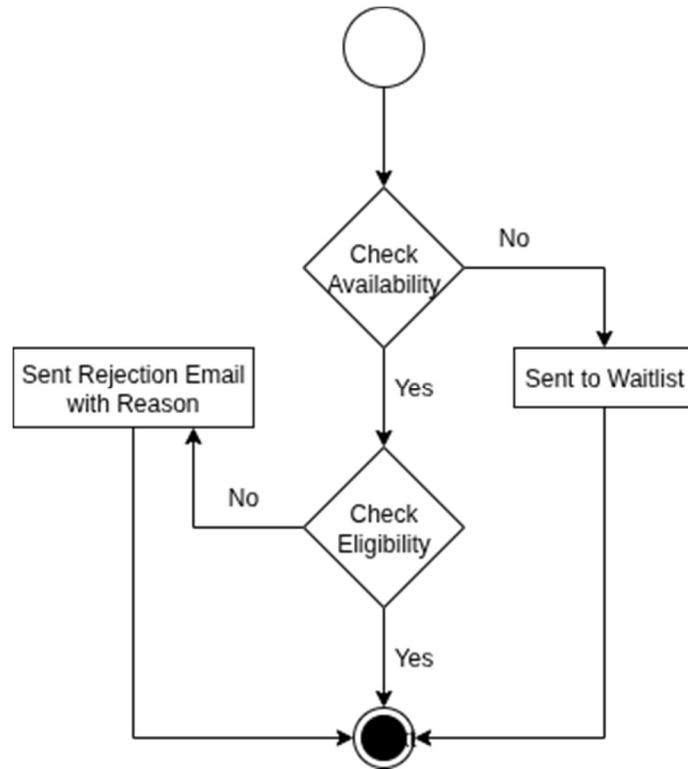
Level: 1.4
Name: Borrow Book
Reference: Use Case Diagram Level 1.4
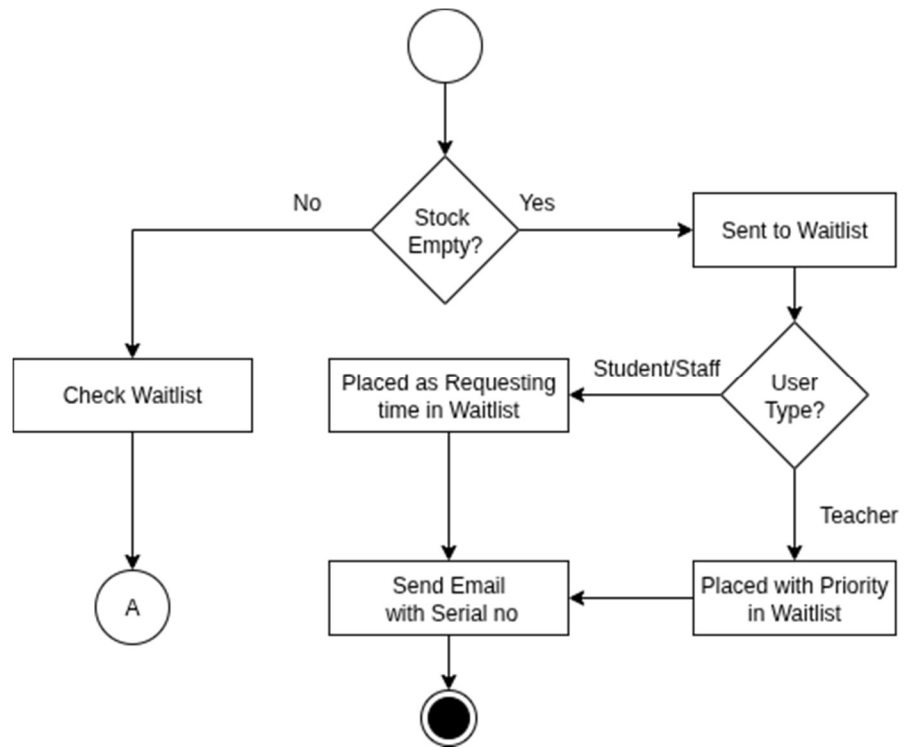
Level: 1.5
Name: Approval
Reference: Use Case Diagram Level 1.5
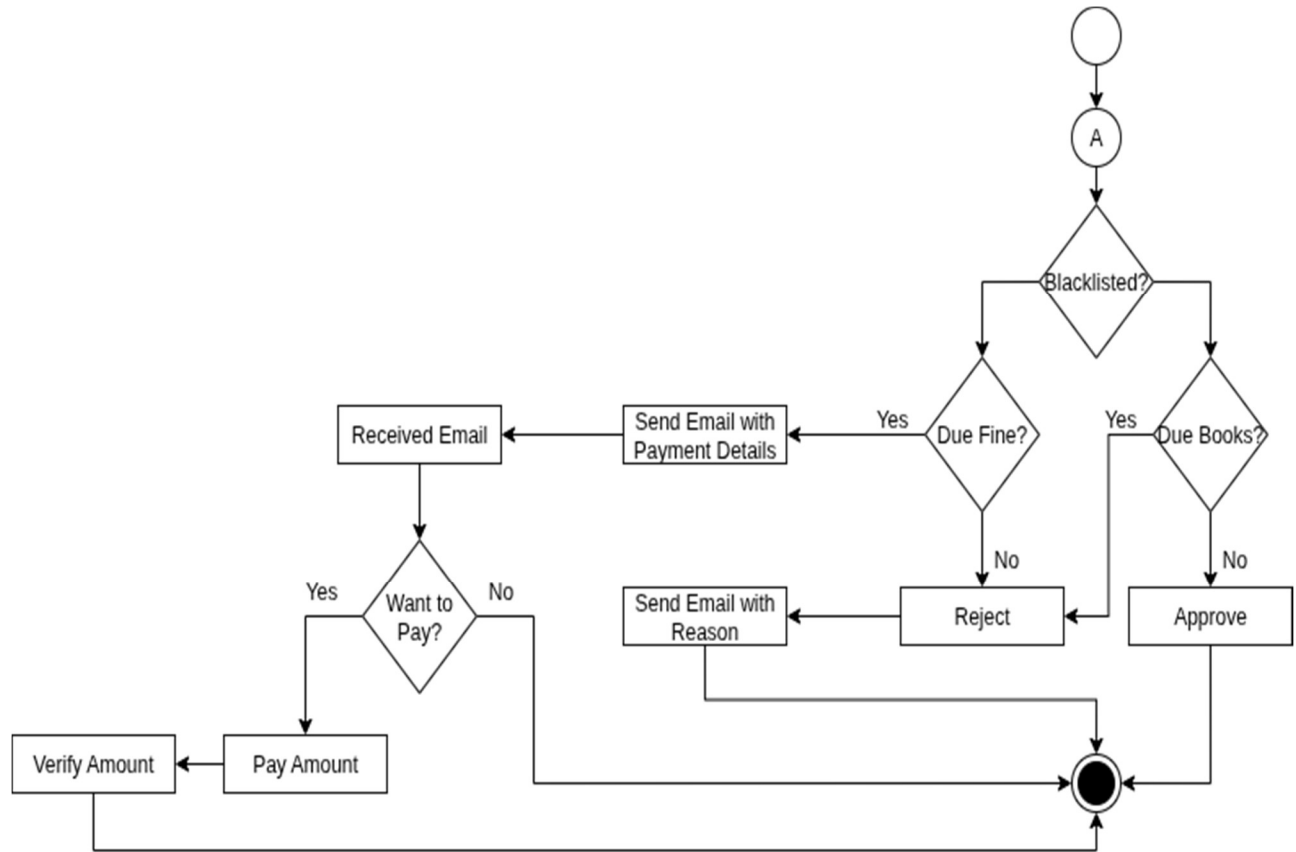
Level: 1.5.1
Name: Availability
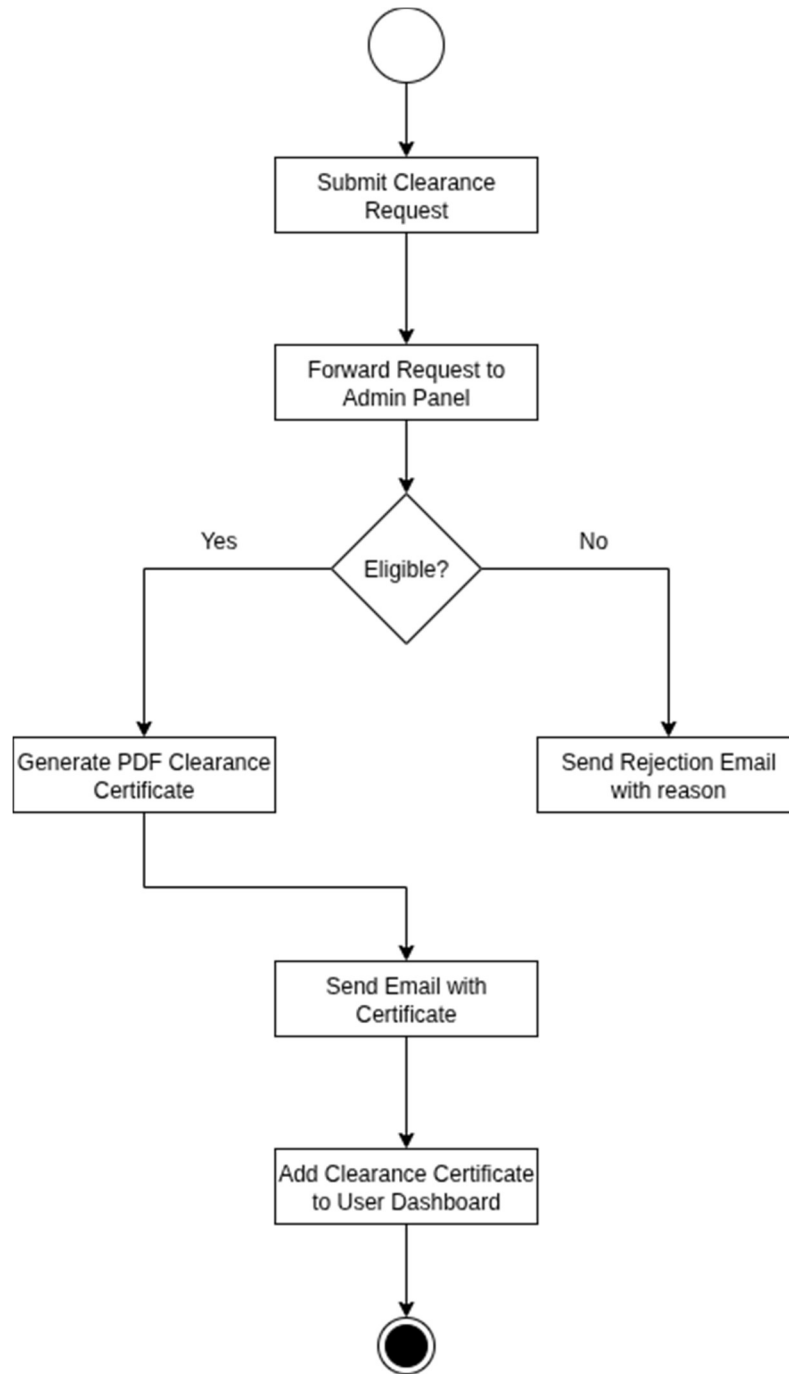**Reference:** Use Case Diagram Level 1.5.1

Level: 1.5.2
Name: Eligibility
Reference: Use Case Diagram Level 1.5.2

Level: 1.6
Name: Clearance
Reference: Use Case Diagram Level 1.6

```
              ( )
               |
               v
    ┌─────────────────────┐
    │ Submit Clearance     │
    │ Request              │
    └─────────────────────┘
               |
               v
    ┌─────────────────────┐
    │ Forward Request to   │
    │ Admin Panel          │
    └─────────────────────┘
               |
               v
Yes          ◇ Eligible?          No
 |              |
 v              v
┌──────────────────┐   ┌──────────────────┐
│ Generate PDF     │   │ Send Rejection    │
│ Clearance        │   │ Email with reason │
│ Certificate      │   └──────────────────┘
└──────────────────┘
               |
               v
    ┌─────────────────────┐
    │ Send Email with      │
    │ Certificate          │
    └─────────────────────┘
               |
               v
    ┌─────────────────────┐
    │ Add Clearance        │
    │ Certificate to User  │
    │ Dashboard            │
    └─────────────────────┘
               |
               v
              (●)
```

Level: 1.7
Name: Eligibility
Reference: Use Case Diagram Level 1.7