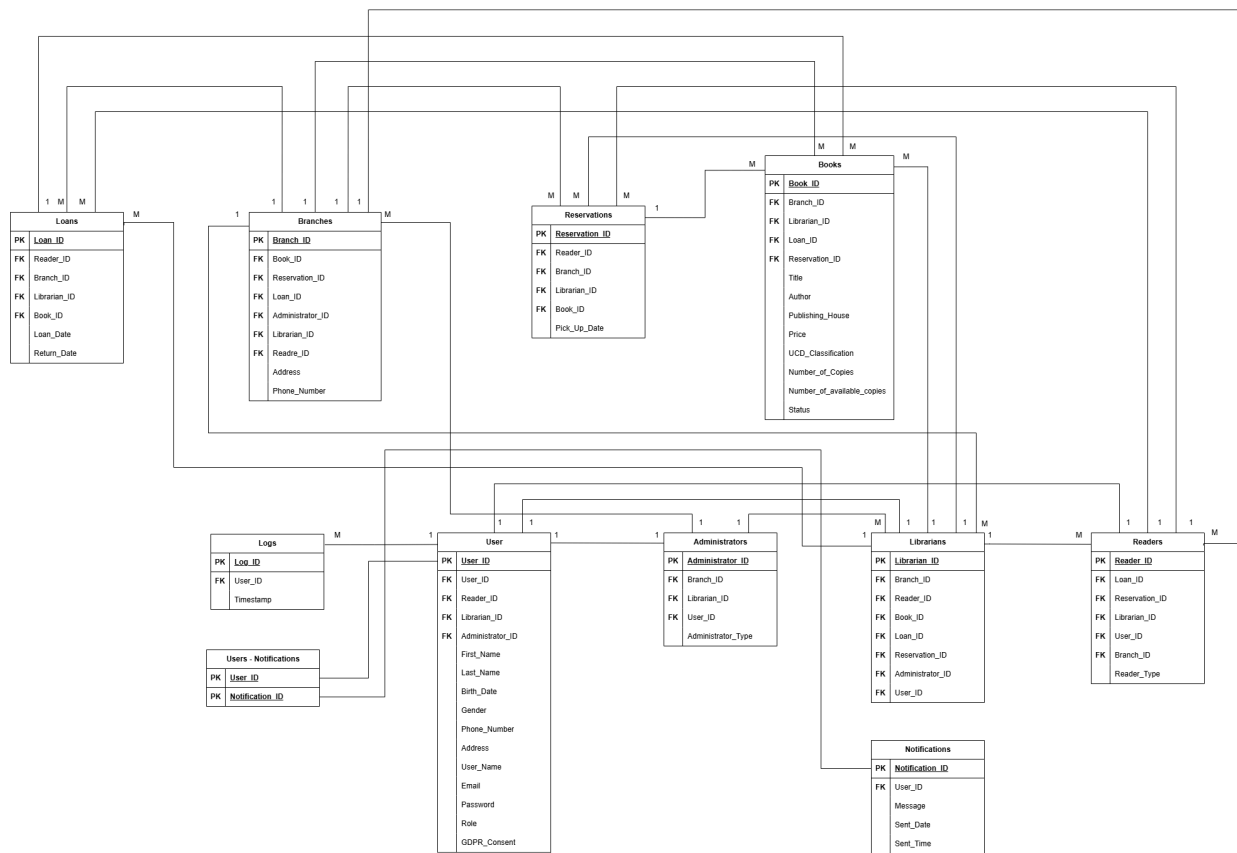# Smart Library Management System Diagrams

Prepared by: Constantin Monica-Andreea
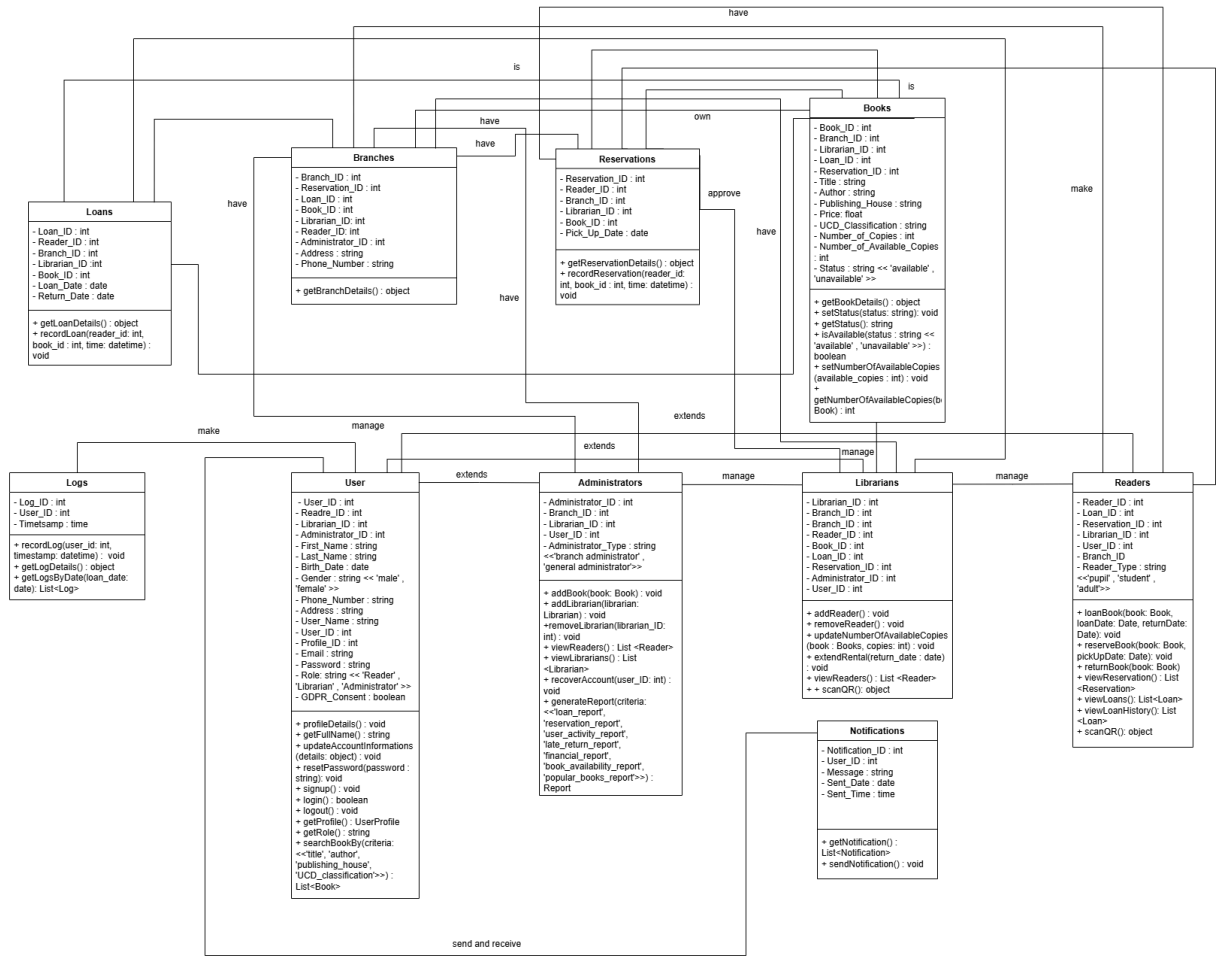
Popa Oana-Maria

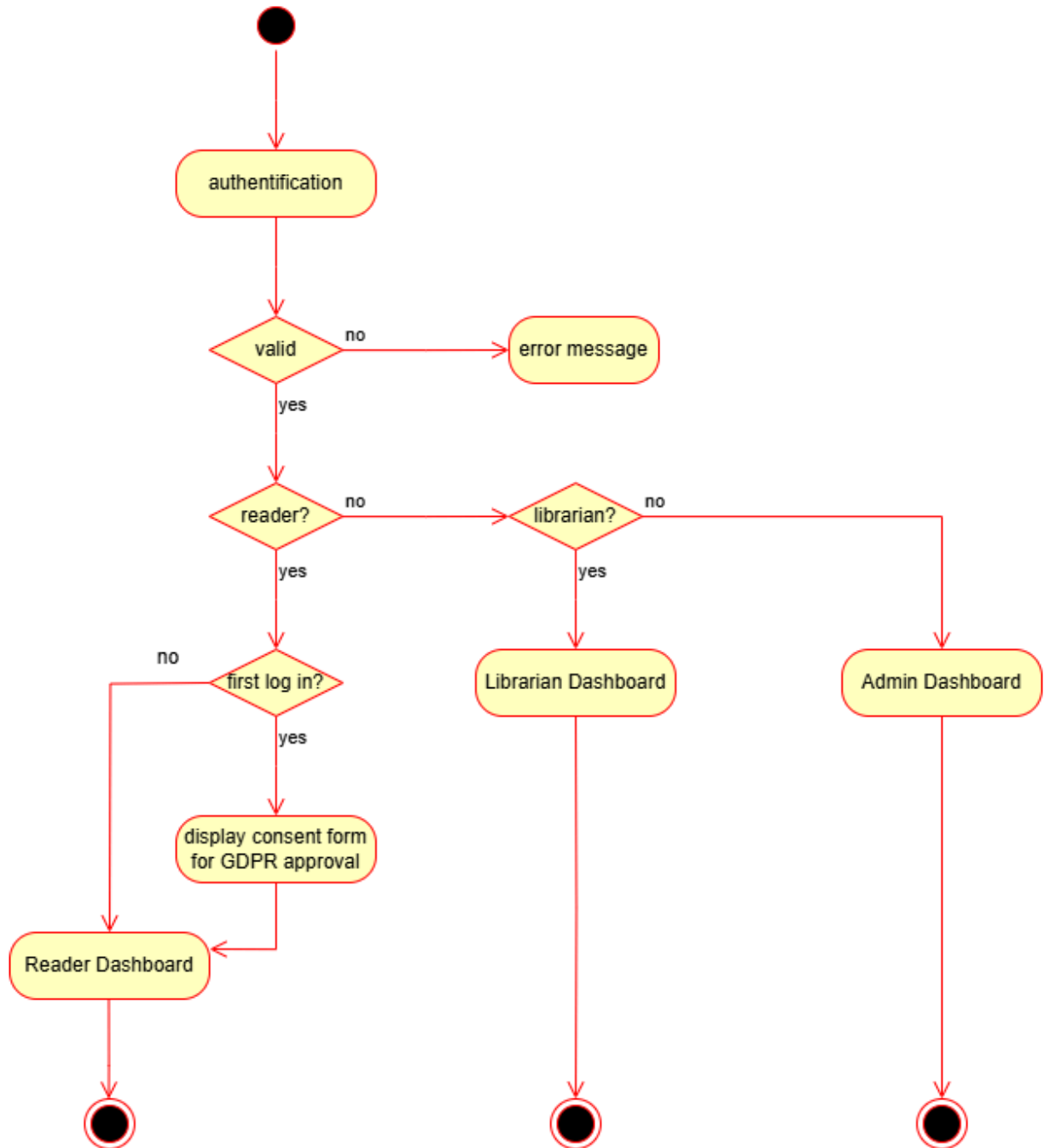**Ruieneanu Dorian**

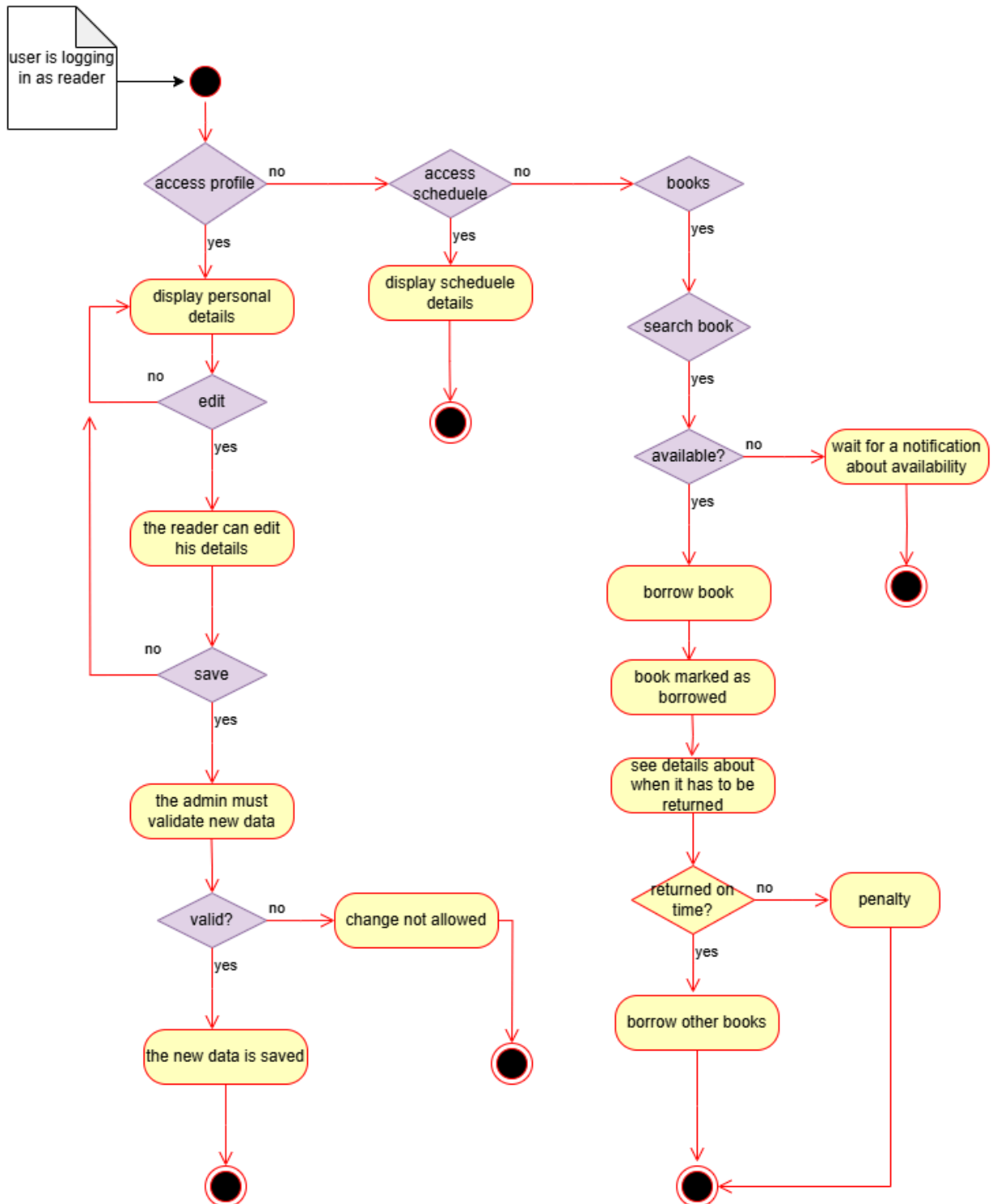## 1. The Relational Model of the Database
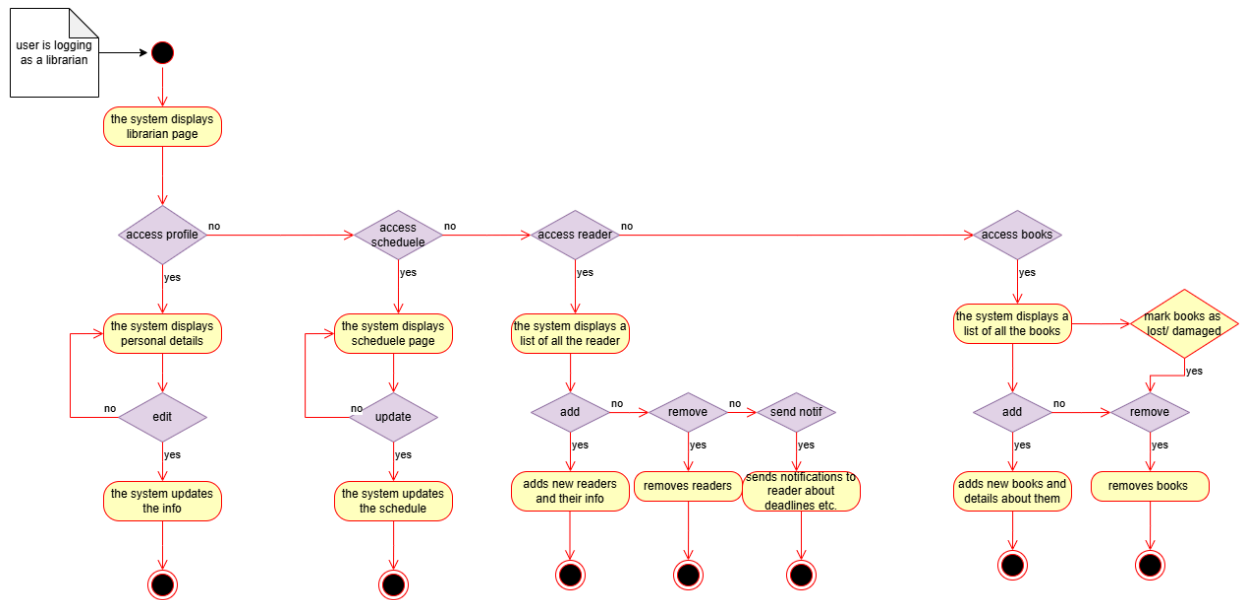
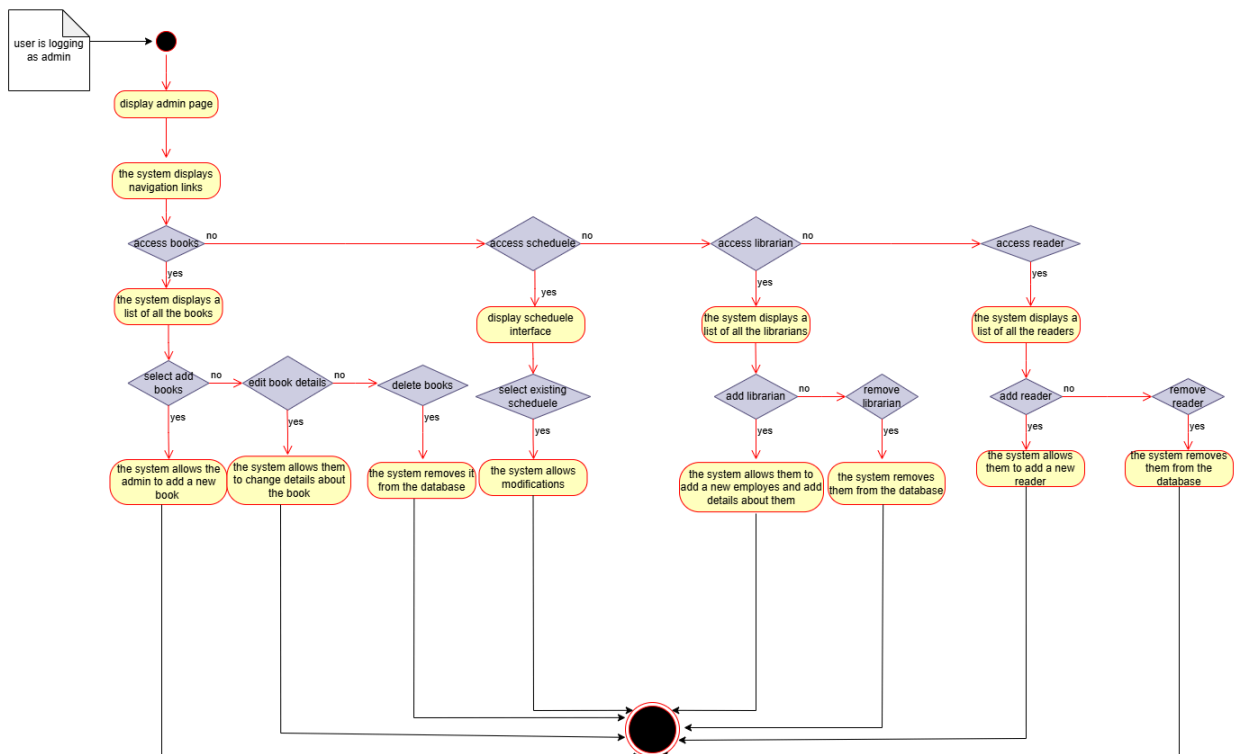## 2. Class Diagram

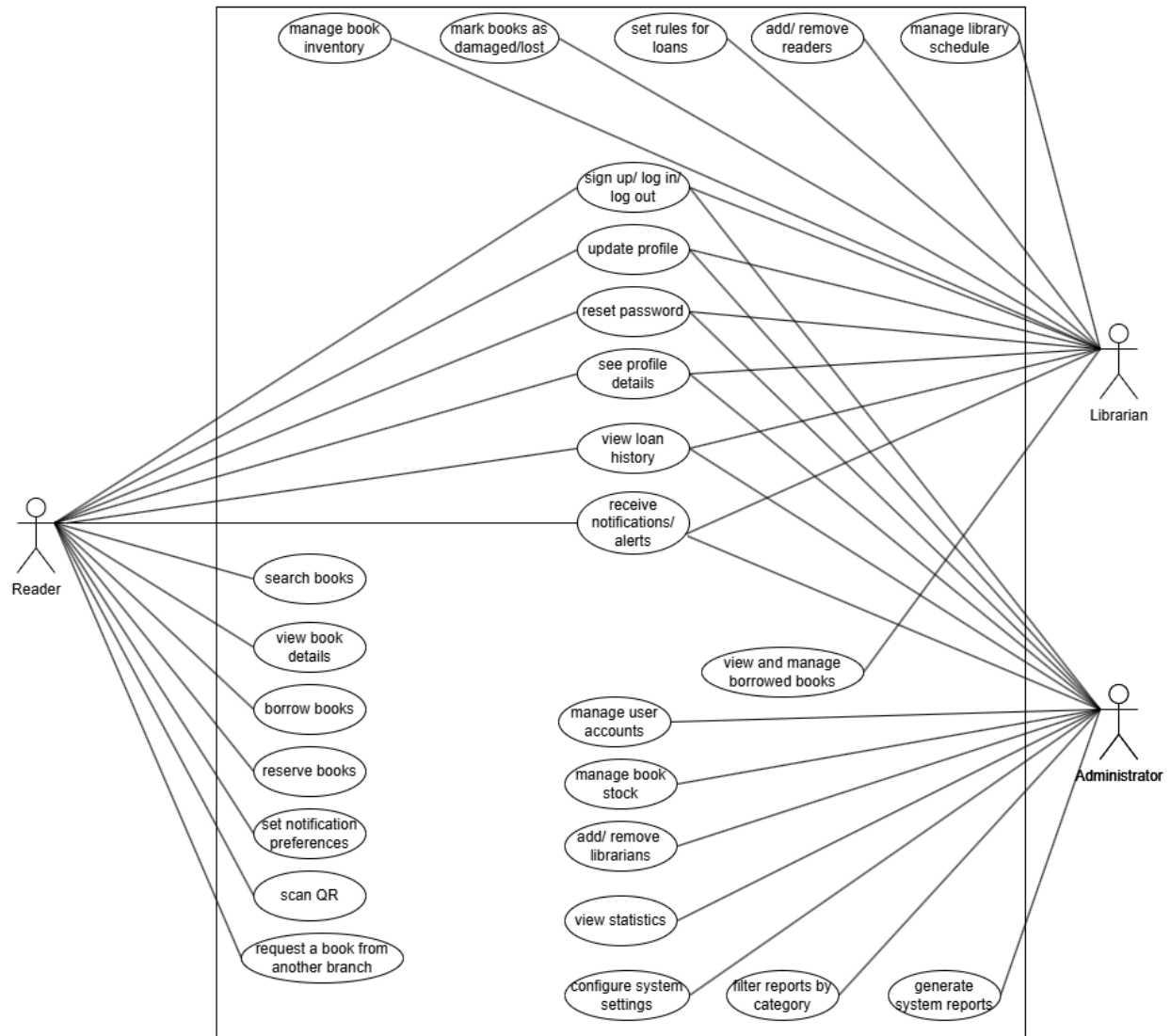## 3. Activity Diagrams

a. Authentication

b. Reader

c. Librarian

d. Administrator

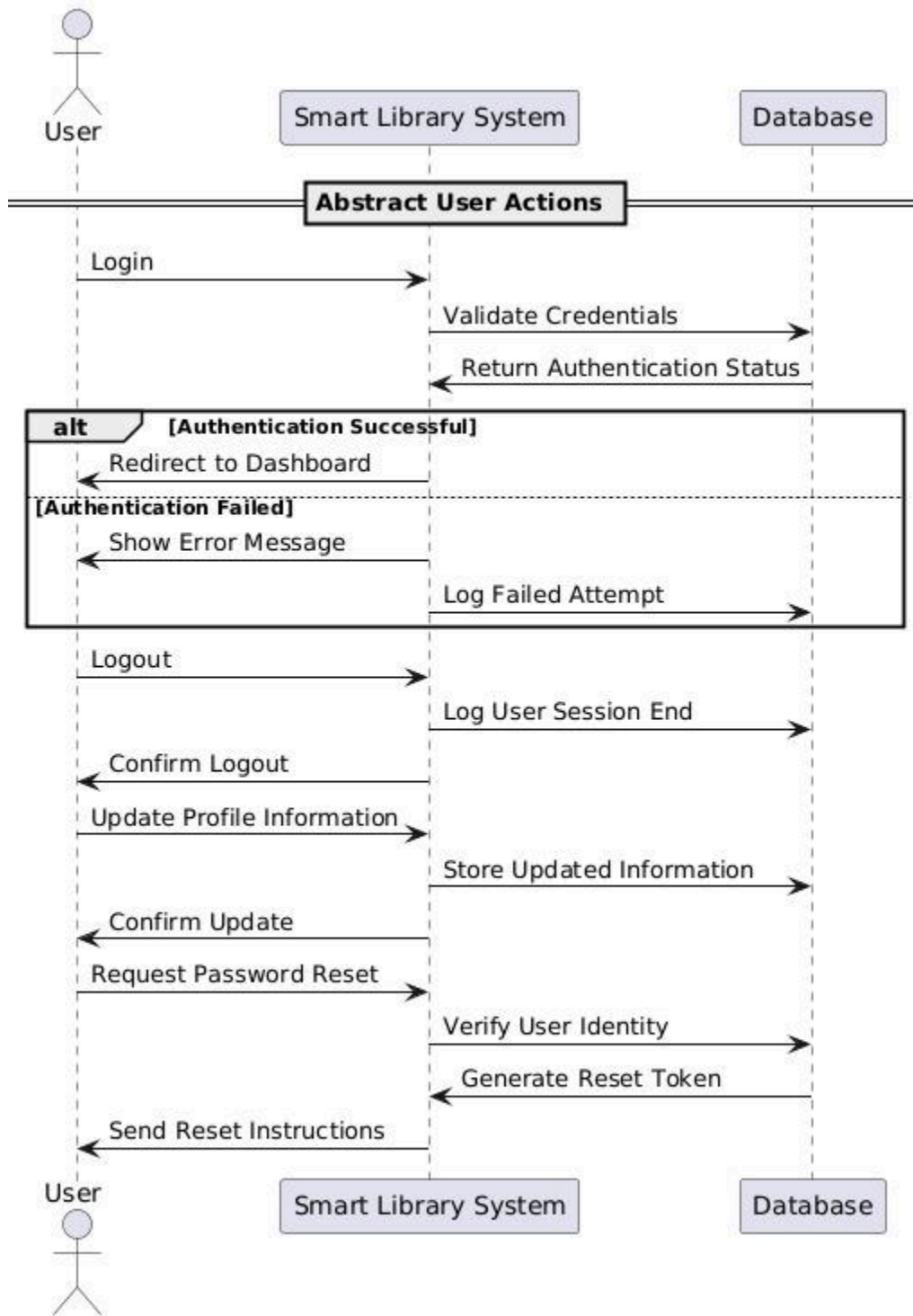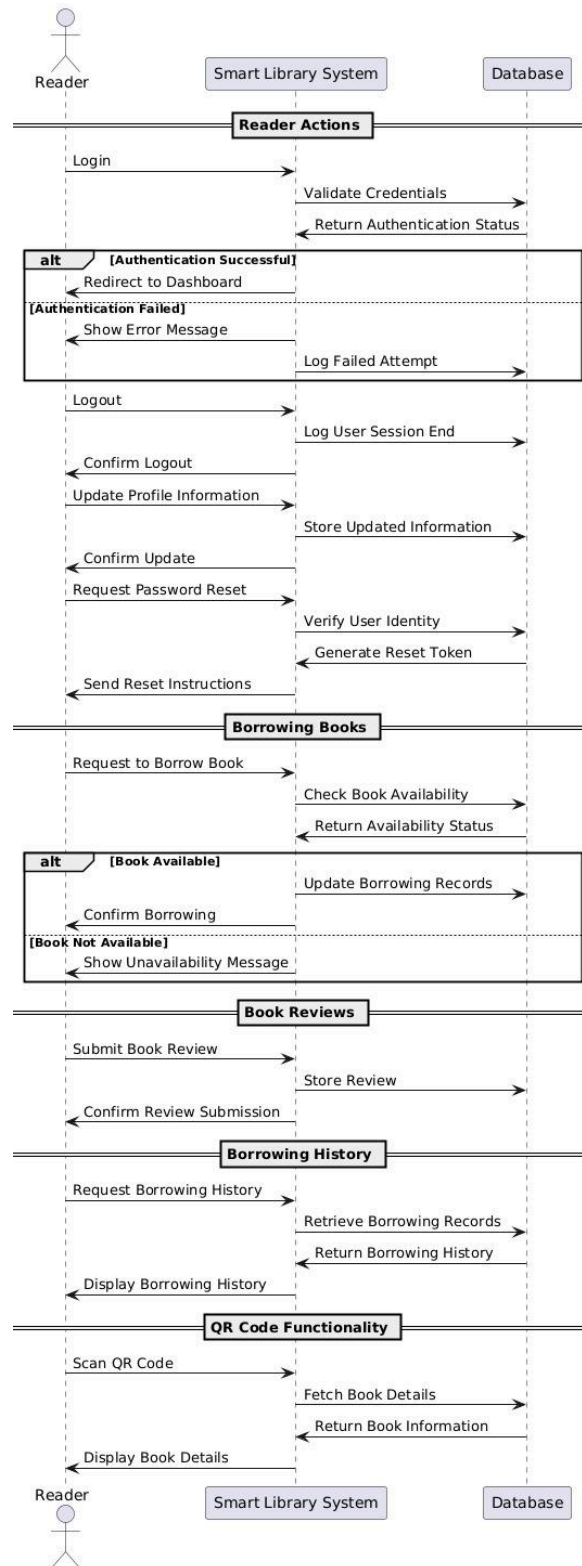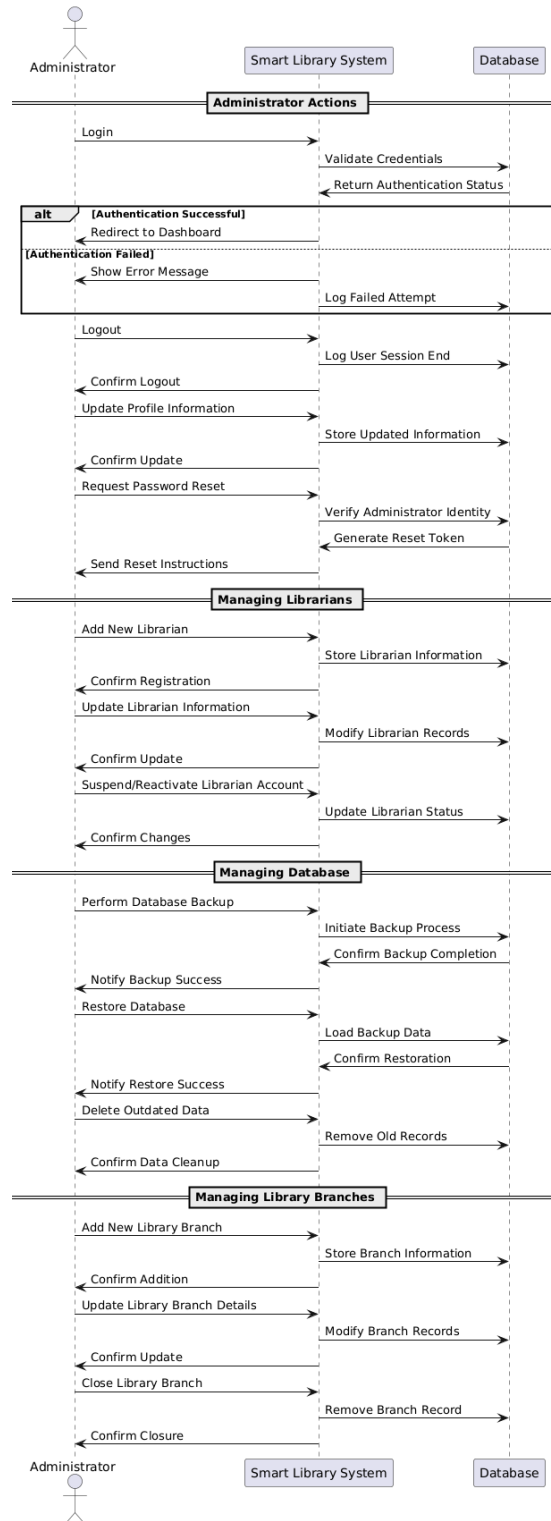## 4. Use Case Diagram

5. Sequence Diagrams

a. User

b. Reader

c. Librarian

Librarian **Smart Library System** **Database**

Librarian Actions

Login
Validate Credentials
Return Authentication Status

alt [Authentication Successful]
Redirect to Dashboard
[Authentication Failed]
Show Error Message
Log Failed Attempt

Logout
Log User Session End
Confirm Logout
Update Profile Information
Store Updated Information
Confirm Update
Request Password Reset
Verify Librarian Identity
Generate Reset Token
Send Reset Instructions

Managing Readers

Register New Reader
Store Reader Information
Confirm Registration
Update Reader Information
Modify Reader Records
Confirm Update
Suspend/Reactivate Reader Account
Update Reader Status
Confirm Changes

Managing Library Inventory

Add New Books to Inventory
Store Book Information
Confirm Addition
Remove/Update Book Details
Modify Book Records
Confirm Changes
Check Inventory Status
Fetch Inventory Data
Return Inventory Report
Display Inventory Status

Managing Book Launches and Events

Schedule Book Launch/Event
Store Event Details
Confirm Event Scheduling
Update Event Details
Modify Event Information
Confirm Update
Cancel Scheduled Event
Remove Event Record
Confirm Cancellation

Librarian **Smart Library System** **Database**

d. Administrator

6. Jira TaskBoard