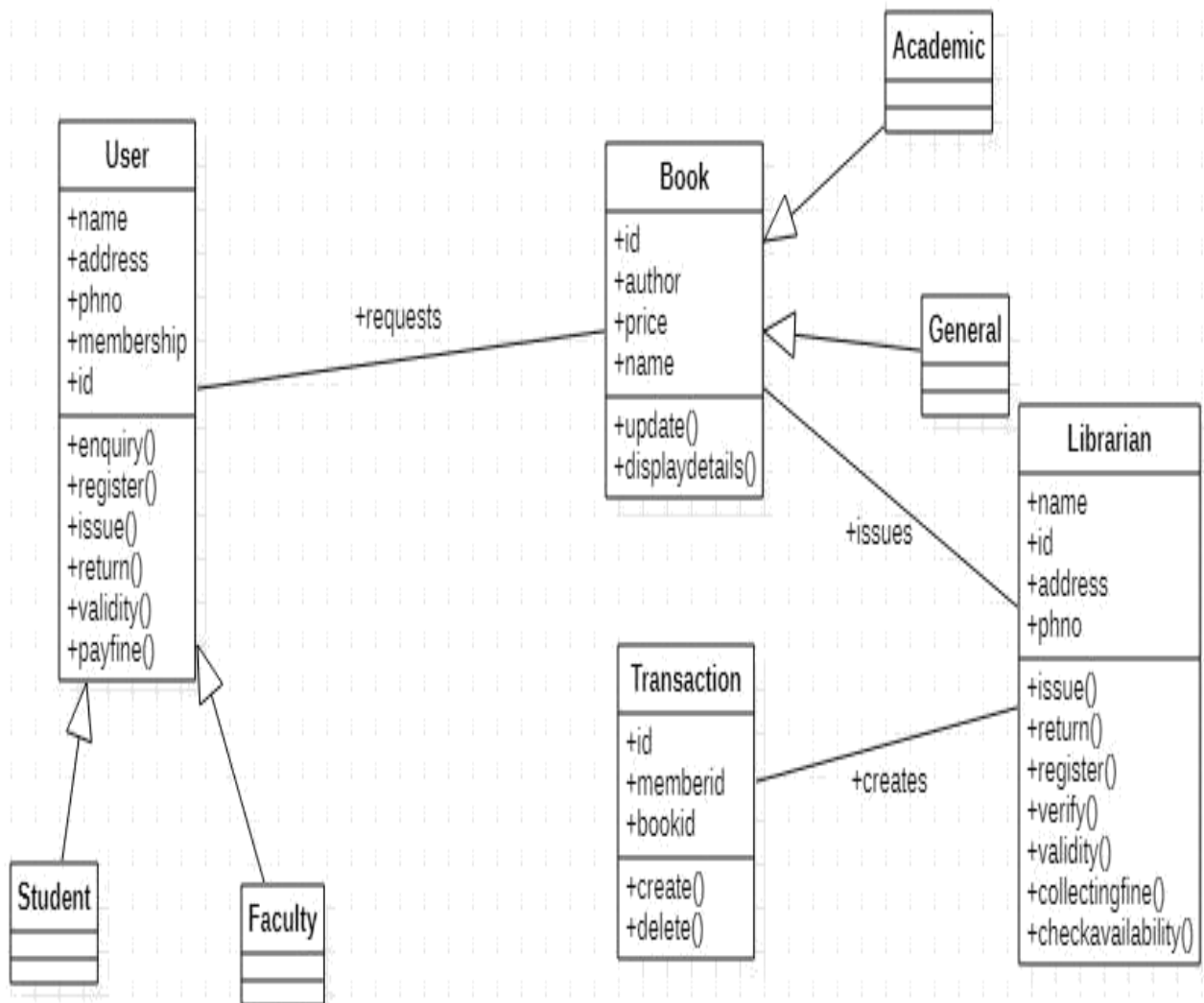**Task-9 Case study for Library Management System.**
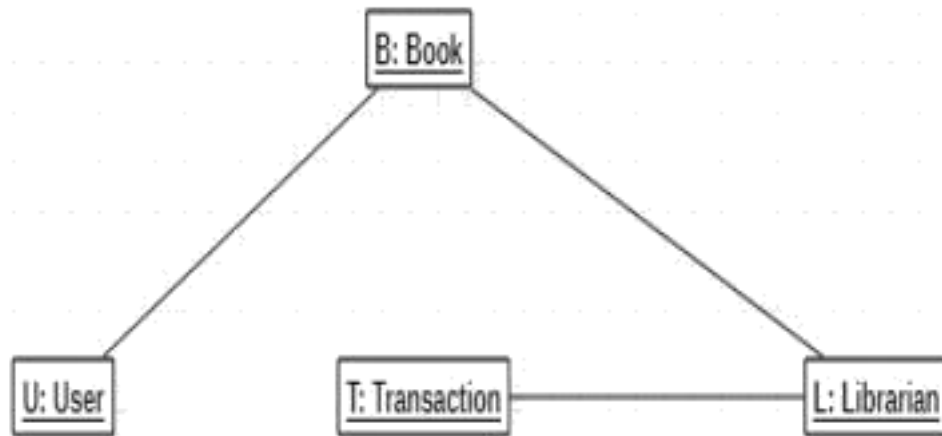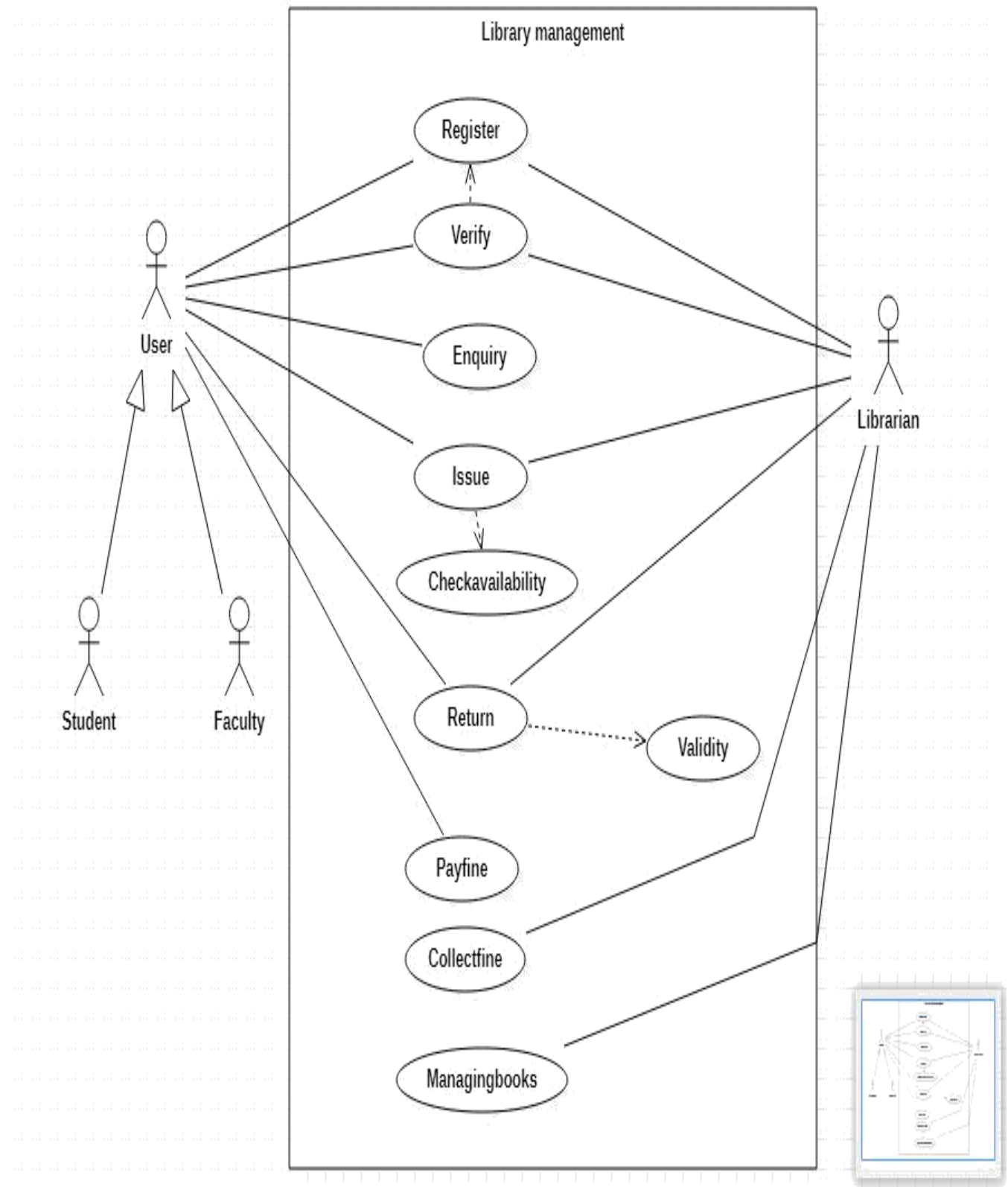
9.1Class Diagram Library Management

Object Diagram Library Management

B: Book

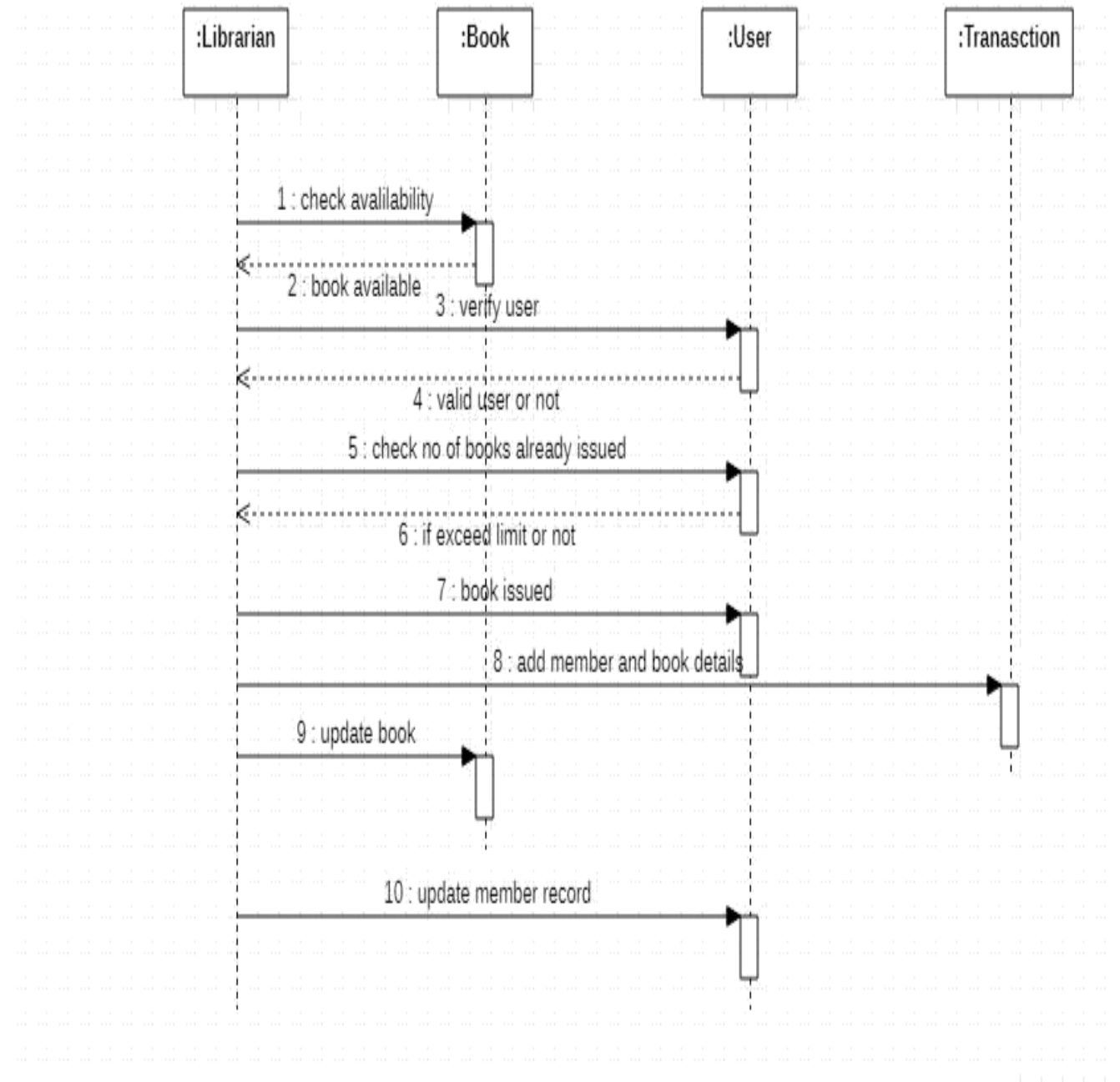U: User   T: Transaction   L: Librarian

9.2 Use Case For Library Management

Library management

Register

Verify

Enquiry

User

Librarian

Issue

Checkavailability

Student   Faculty

Return → Validity

Payfine

Collectfine

Managingbooks

9.3 Sequence Diagram For Library Management

sd SequenceDiagram1

| :Librarian | :Book | :User | :Transasction |

1 : check avalilability

2 : book available

3 : verify user

4 : valid user or not

5 : check no of books already issued

6 : if exceed limit or not

7 : book issued

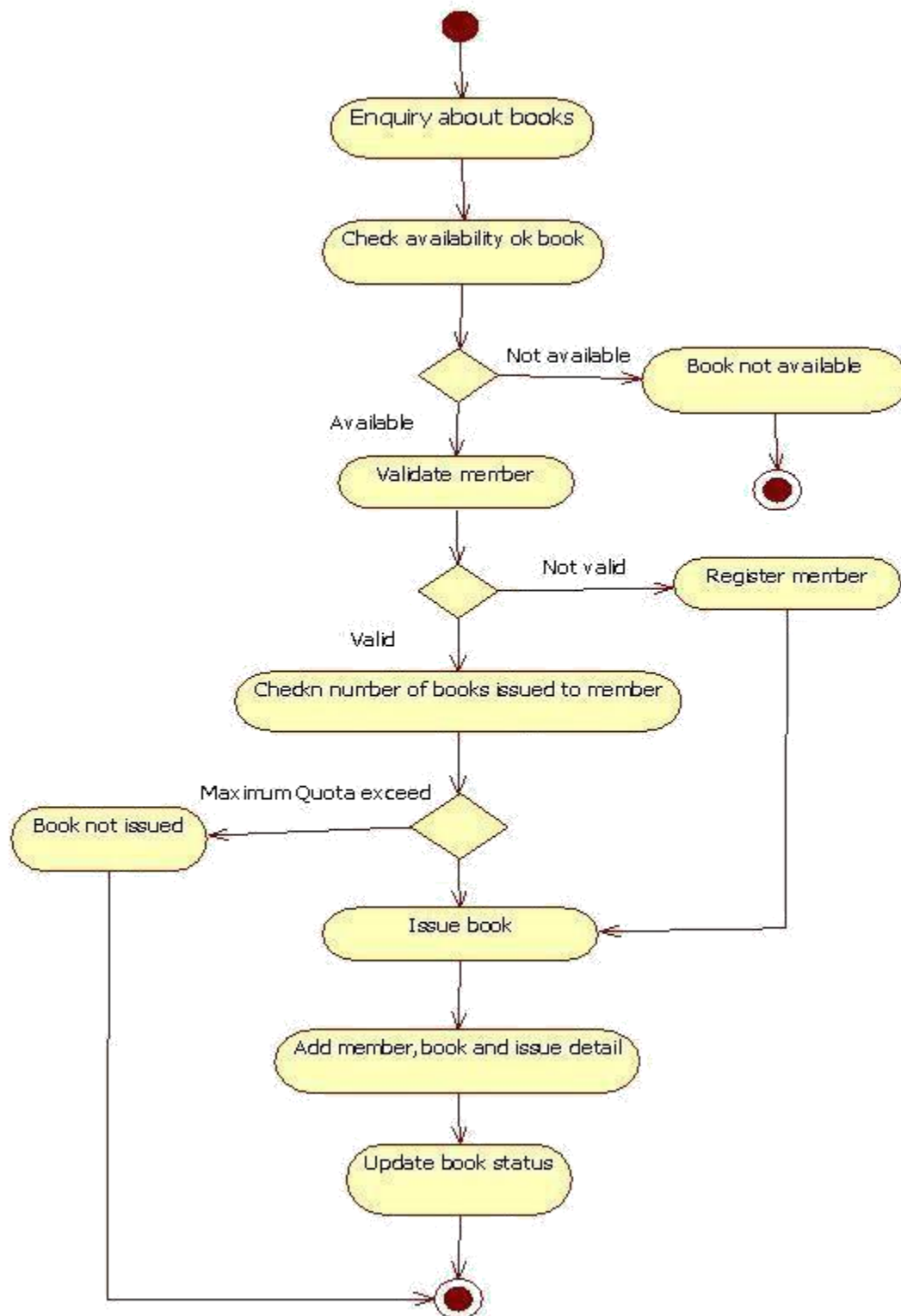8 : add member and book details

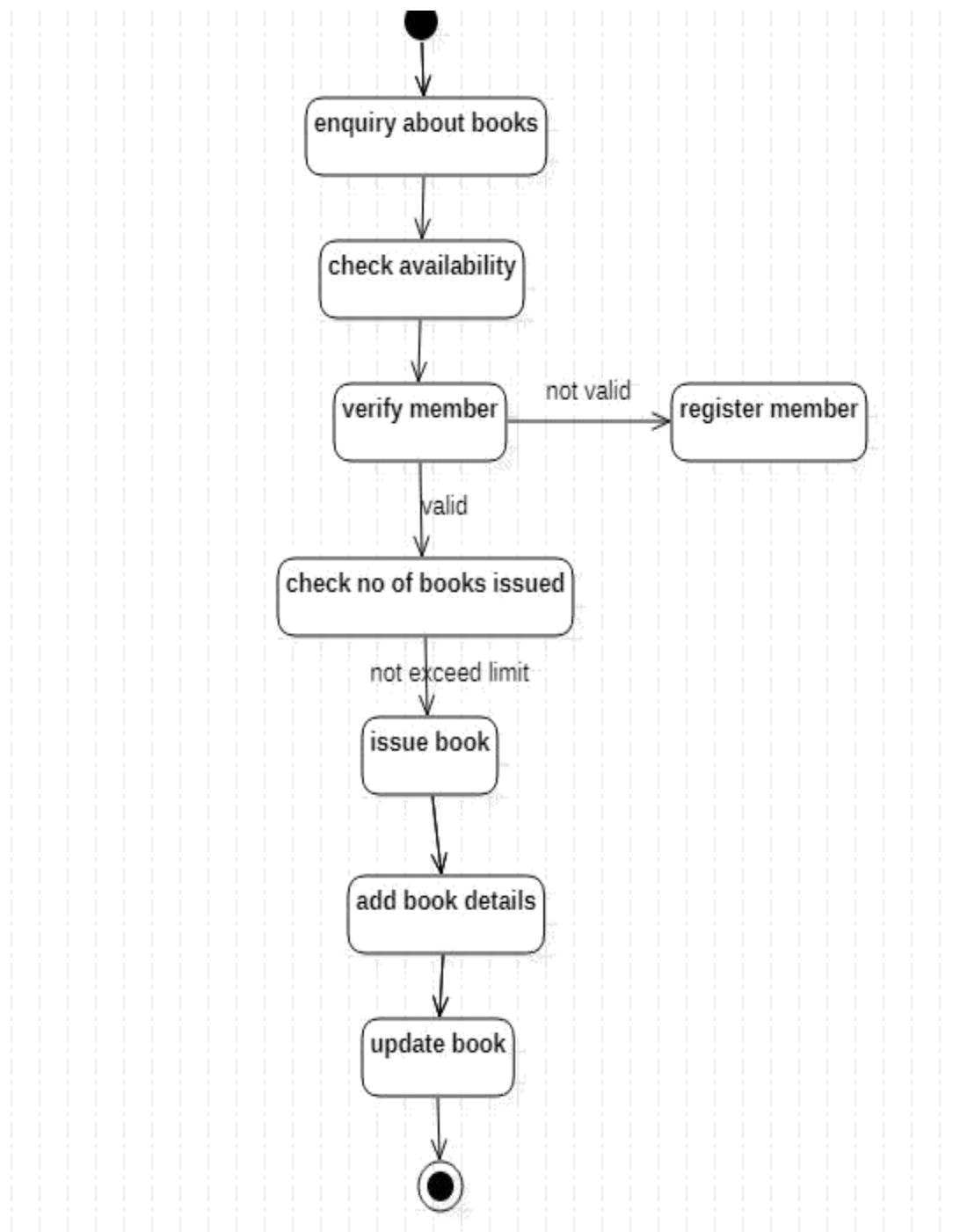9 : update book
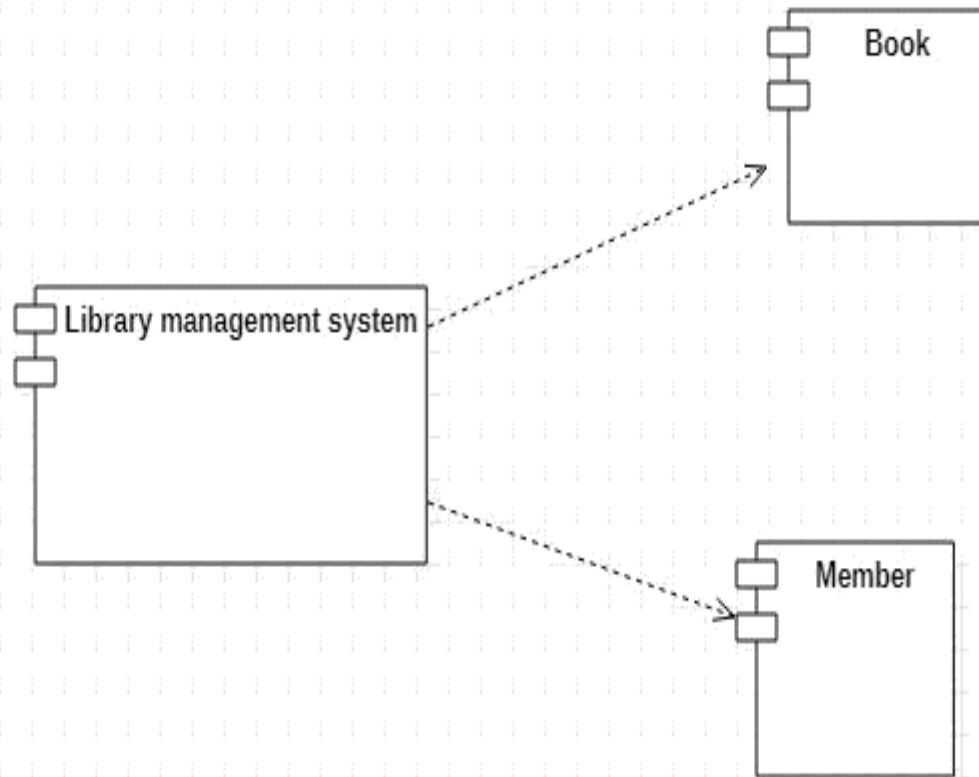
10 : update member record

Collaboration Diagram For Library
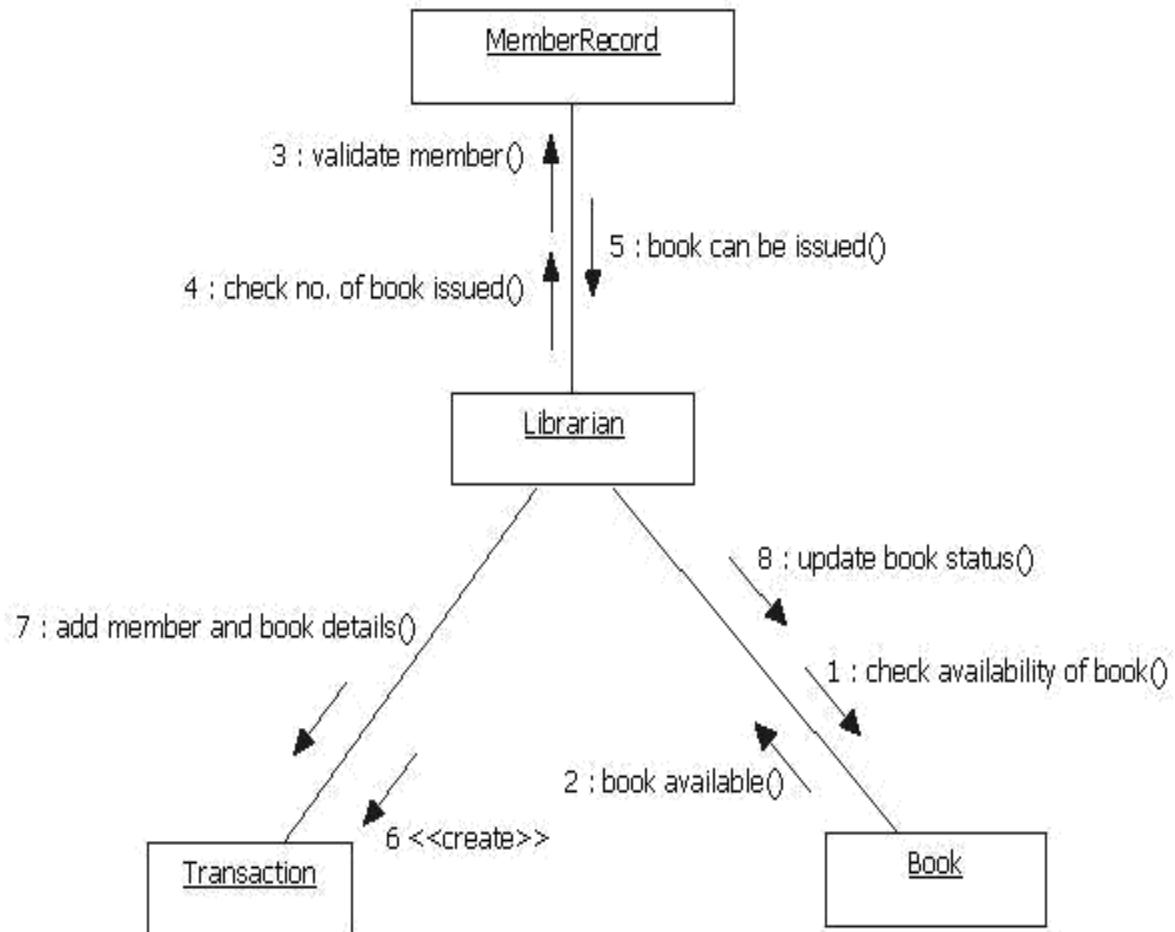
9.4Activity Diagram Library Management

9.5 State chart Diagram For Library

9.6 Component Diagram for Library

Book

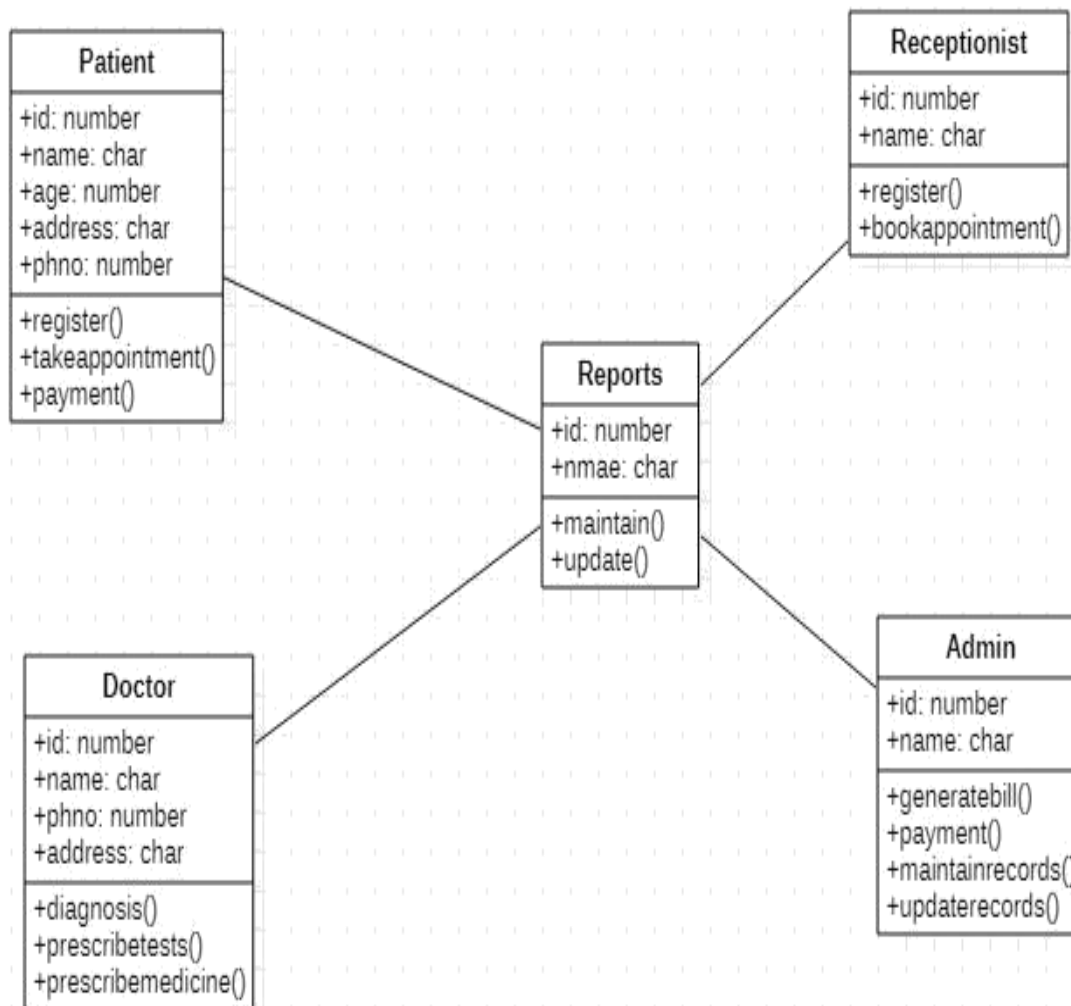Library management system

Member

9.7 Deployment Diagram For Library

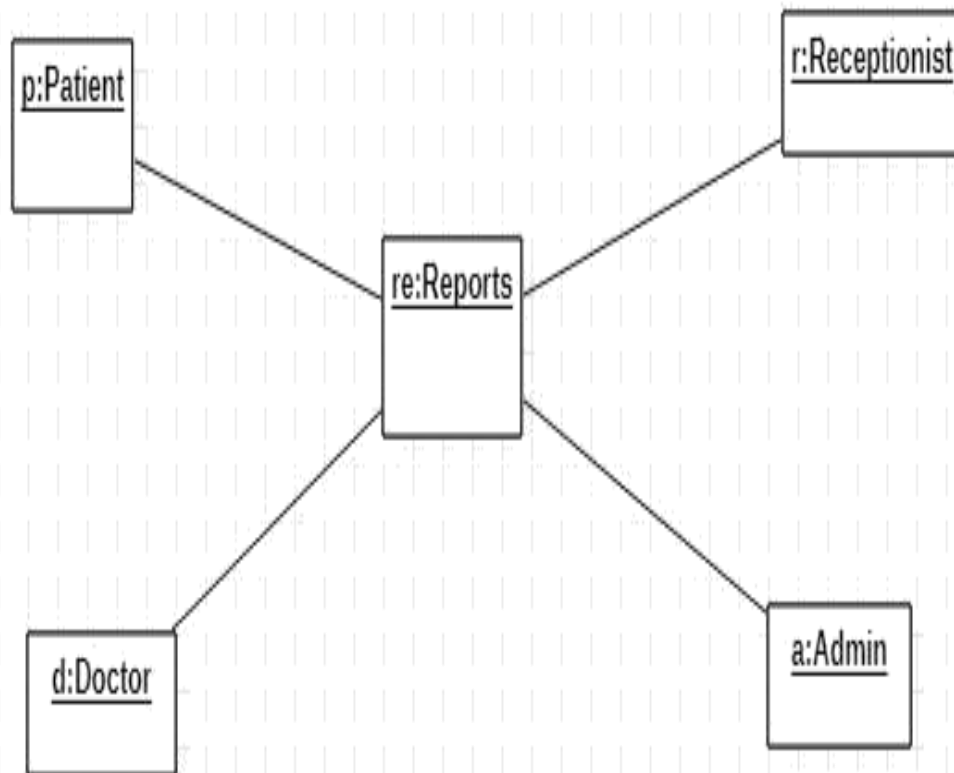**Task-10 Case study for Hospital Management System.**

10.1.Class Diagram for Hospital Mgmt

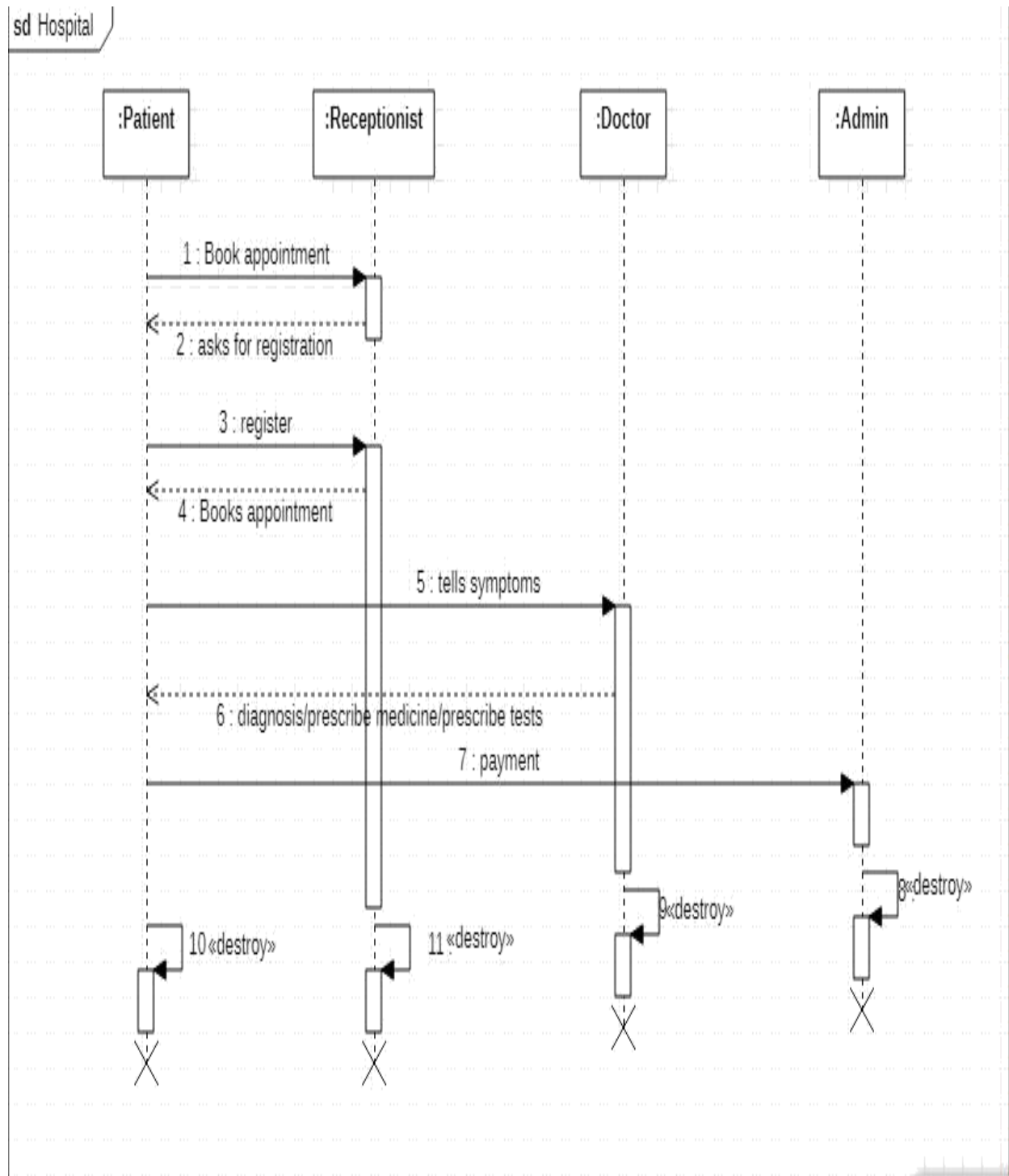**Object Diagram for Hospital Mgmt**

p:Patient

r:Receptionist

re:Reports

d:Doctor

a:Admin

10.2.Use Case Diagram for Hospital Mgmt
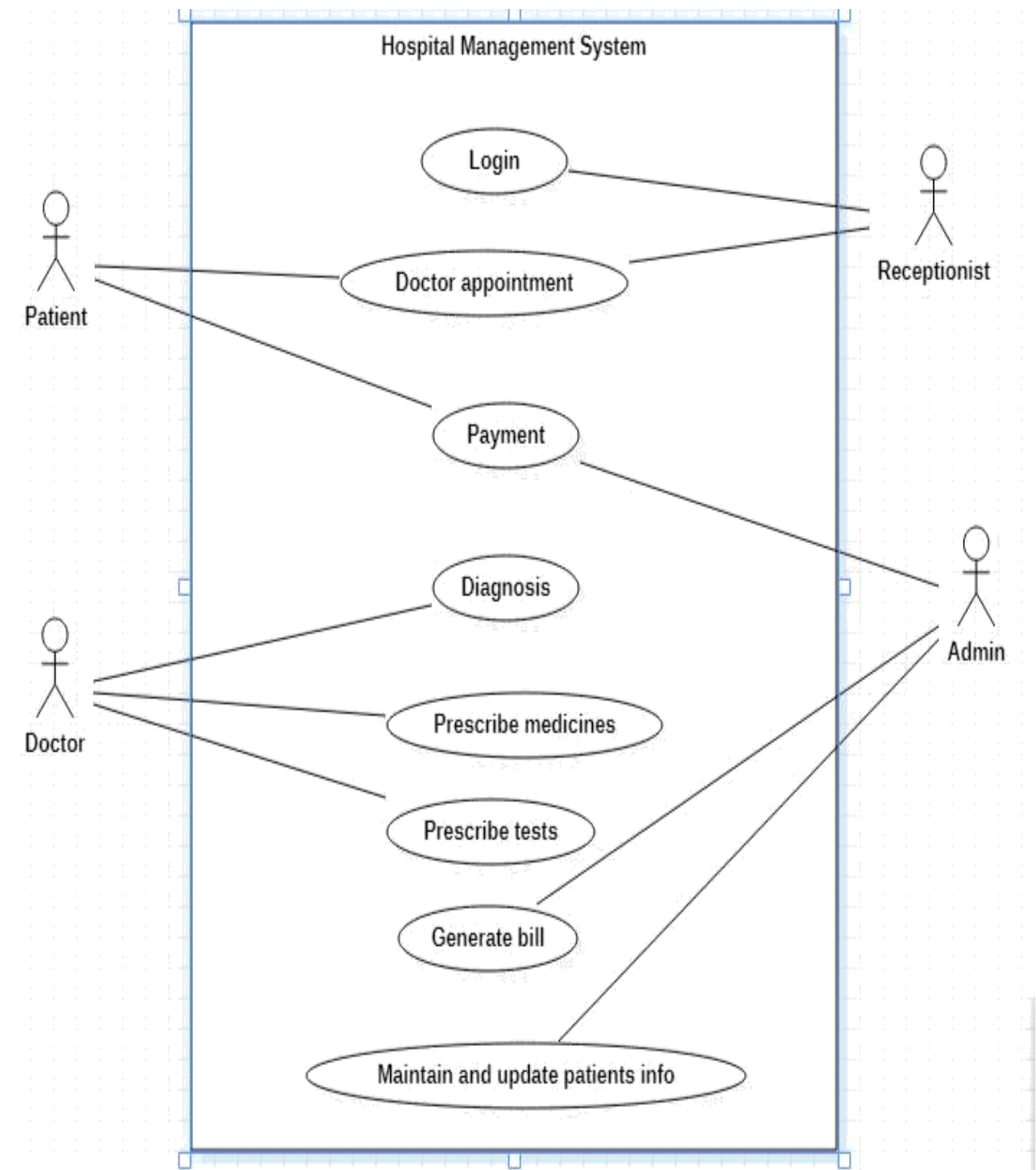
10.3.sequence Diagram for Hospital Mgmt

sd Hospital

| :Patient | :Receptionist | :Doctor | :Admin |

1 : Book appointment

2 : asks for registration

3 : register

4 : Books appointment

5 : tells symptoms

6 : diagnosis/prescribe medicine/prescribe tests

7 : payment

8«destroy»

9«destroy»

10«destroy»

11 «destroy»

Collaboration Diagram For Hospital Mgmt.

sd Hospital

:Patient	3 : register 1 : books appointment	:Receptionist

2 : asks for registration

4 : books appointment

6 : diagnosis

5 : tells symptoms

7 : payment

:Doctor

:Admin
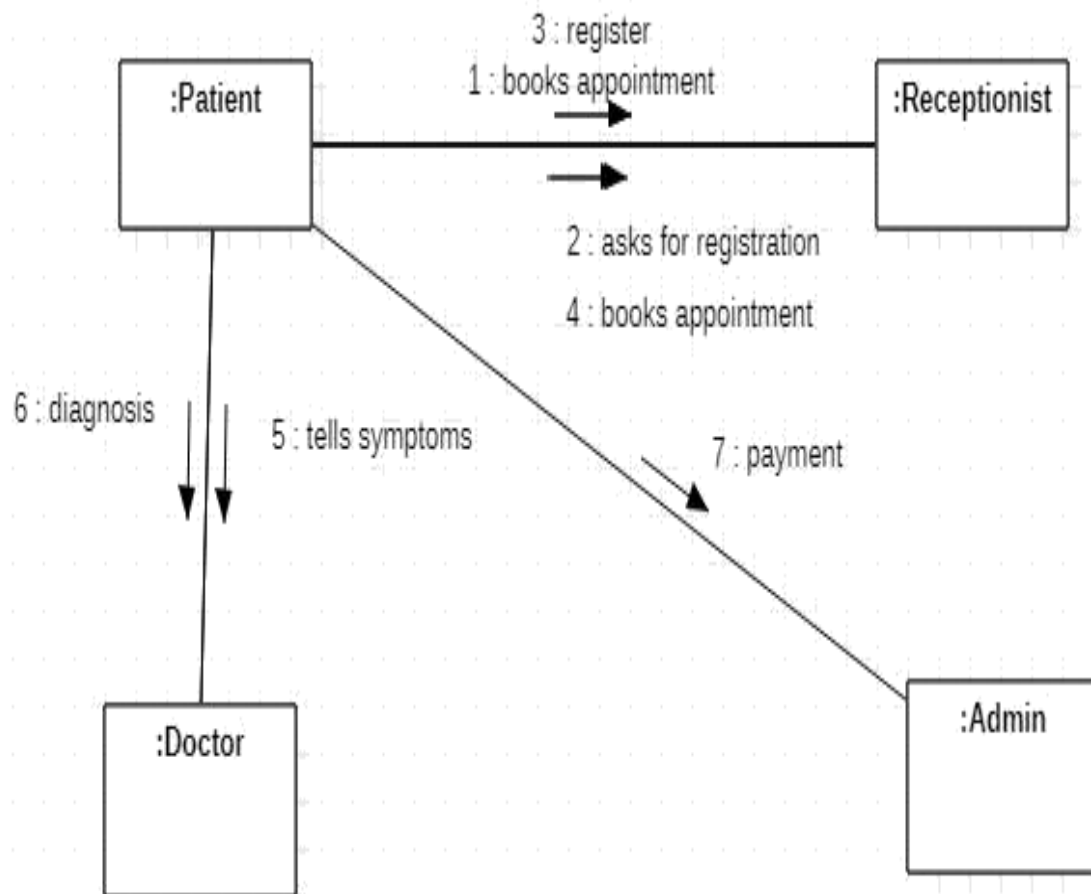
10.4.Activity Diagram For Hospital Mgmt
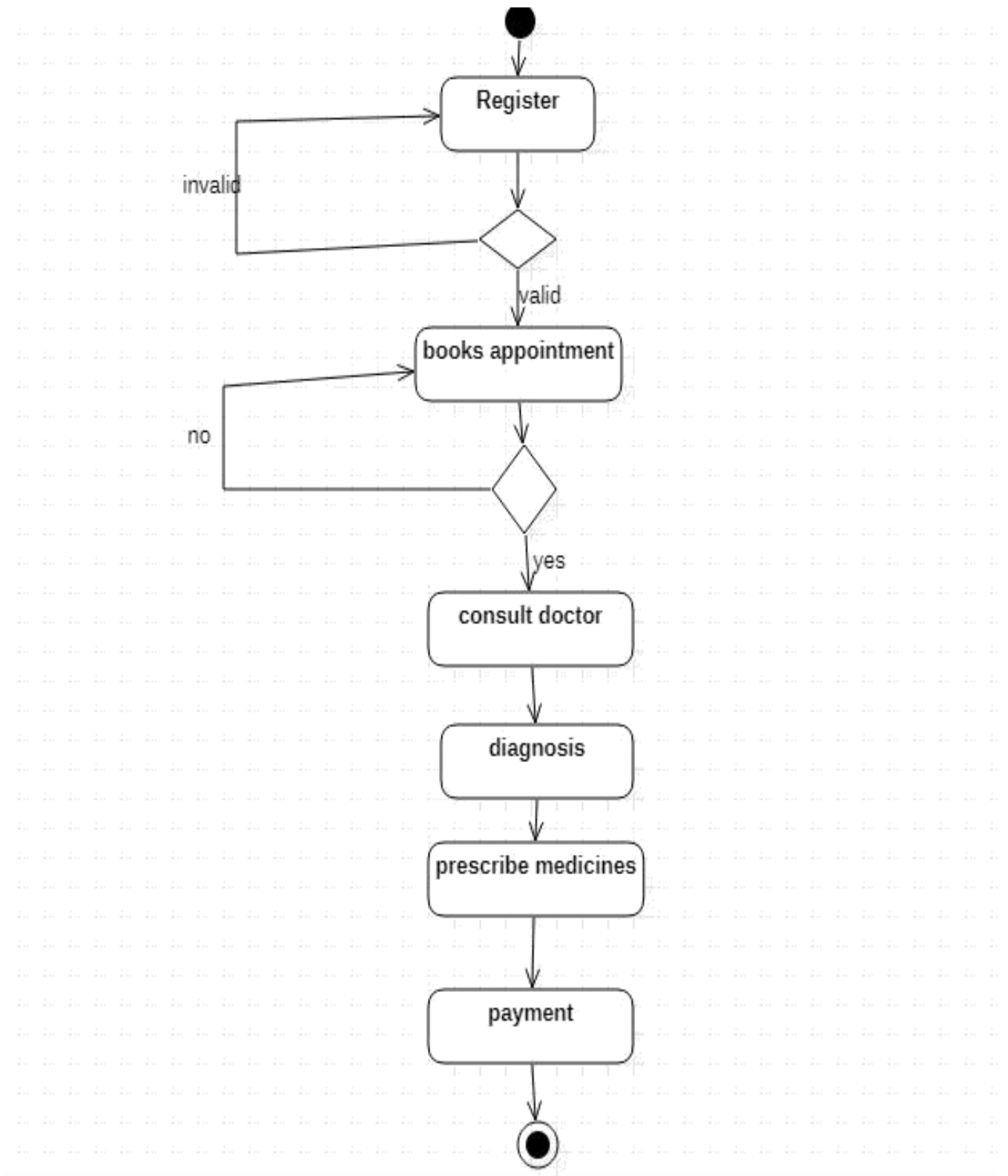
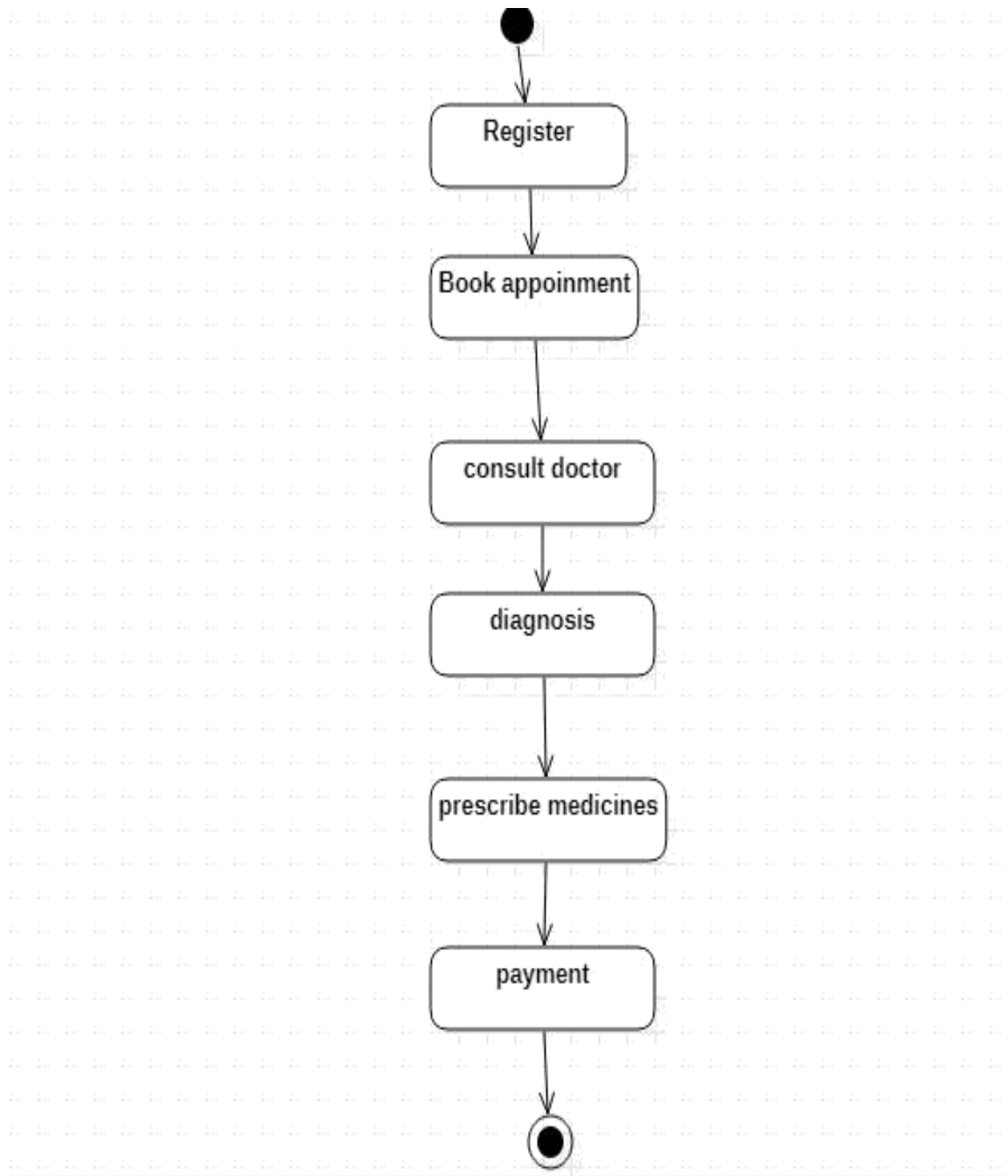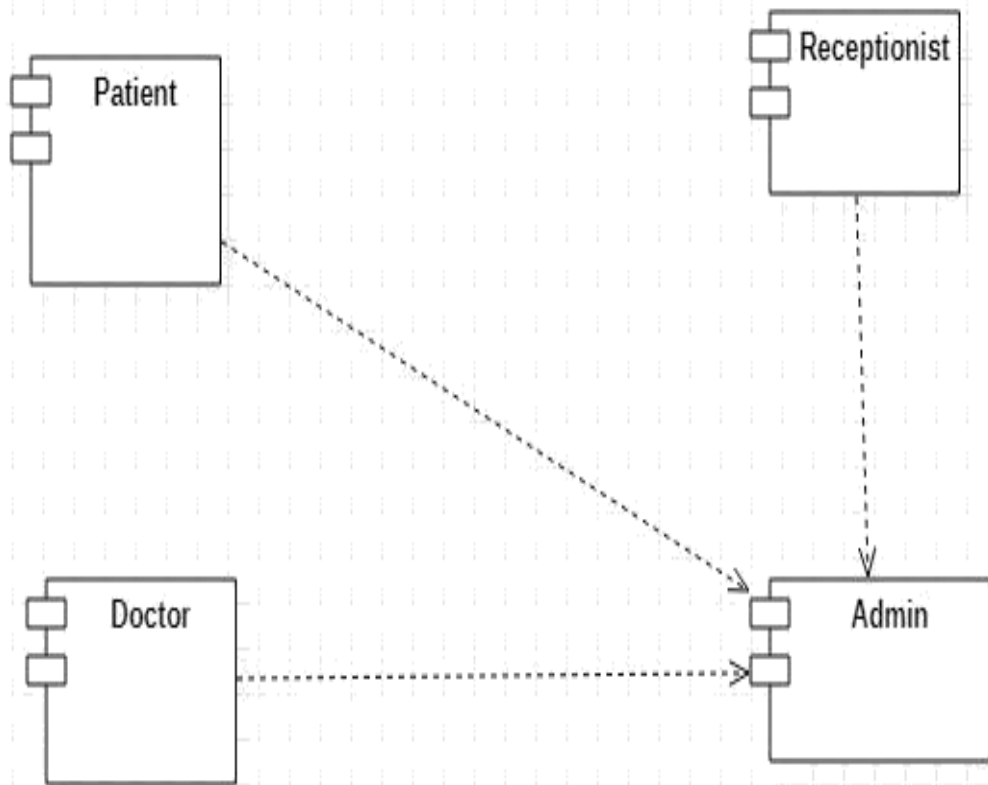**10.5. State Chart Diagram For Hospital Mgmt**

10.6.Component Diagram For Hospital Mgmt

Patient
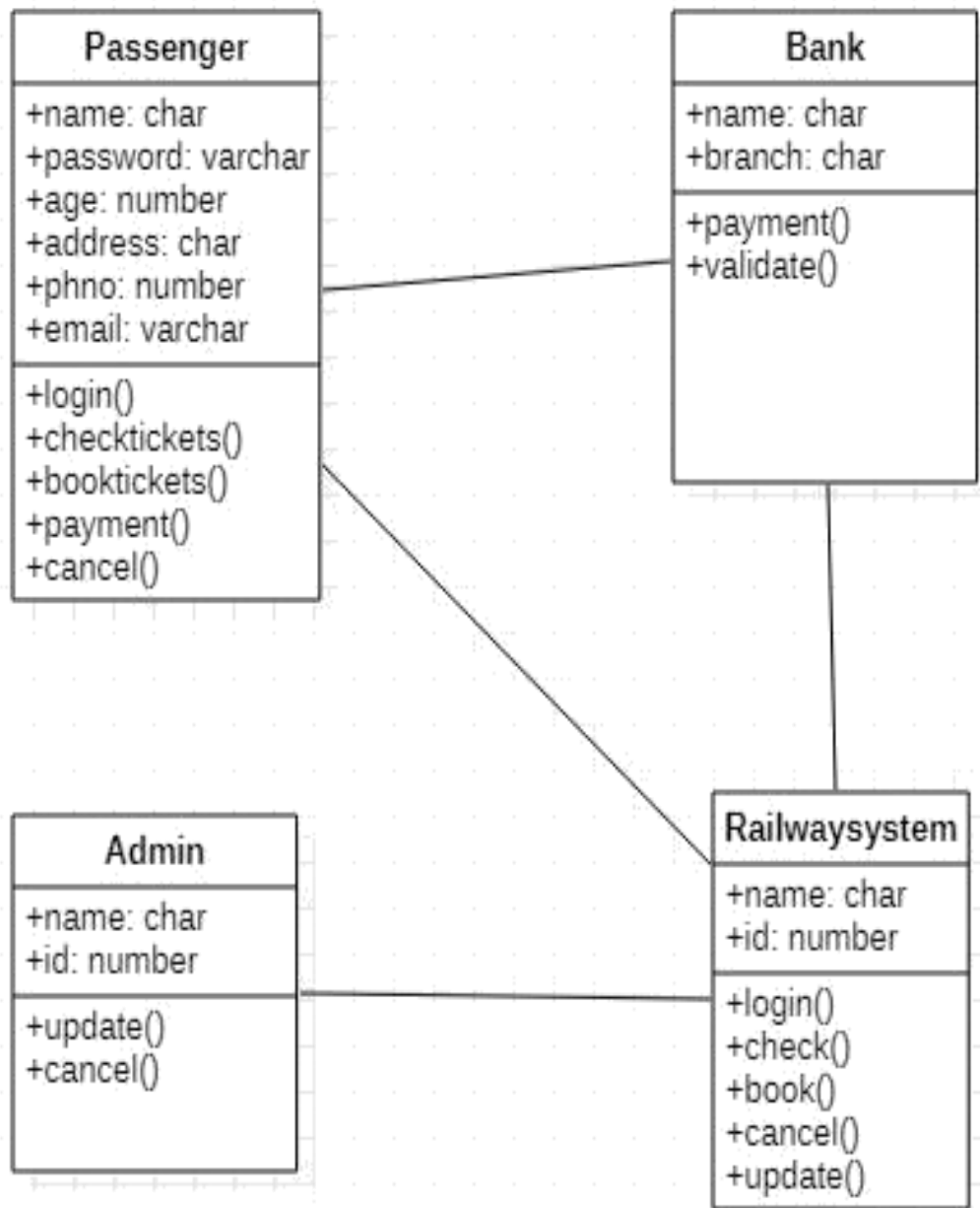
Receptionist

Doctor

Admin

10.7.Deployment Diagram For Hospital Mgmt

server

client
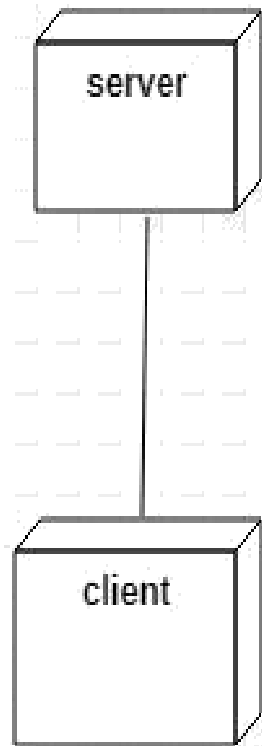
Task-11 Case study for Railway Reservation System.

11.1 Class Diagram For Railway Reservation System

Passenger
+name: char
+password: varchar
+age: number
+address: char
+phno: number
+email: varchar
+login()
+checktickets()
+booktickets()
+payment()
+cancel()

Bank
+name: char
+branch: char
+payment()
+validate()

Admin
+name: char
+id: number
+update()
+cancel()

Railwaysystem
+name: char
+id: number
+login()
+check()
+book()
+cancel()
+update()

Object Diagram For Railway Reservation System


:Passenger

:Railwaysystem

:Bank

:Admin
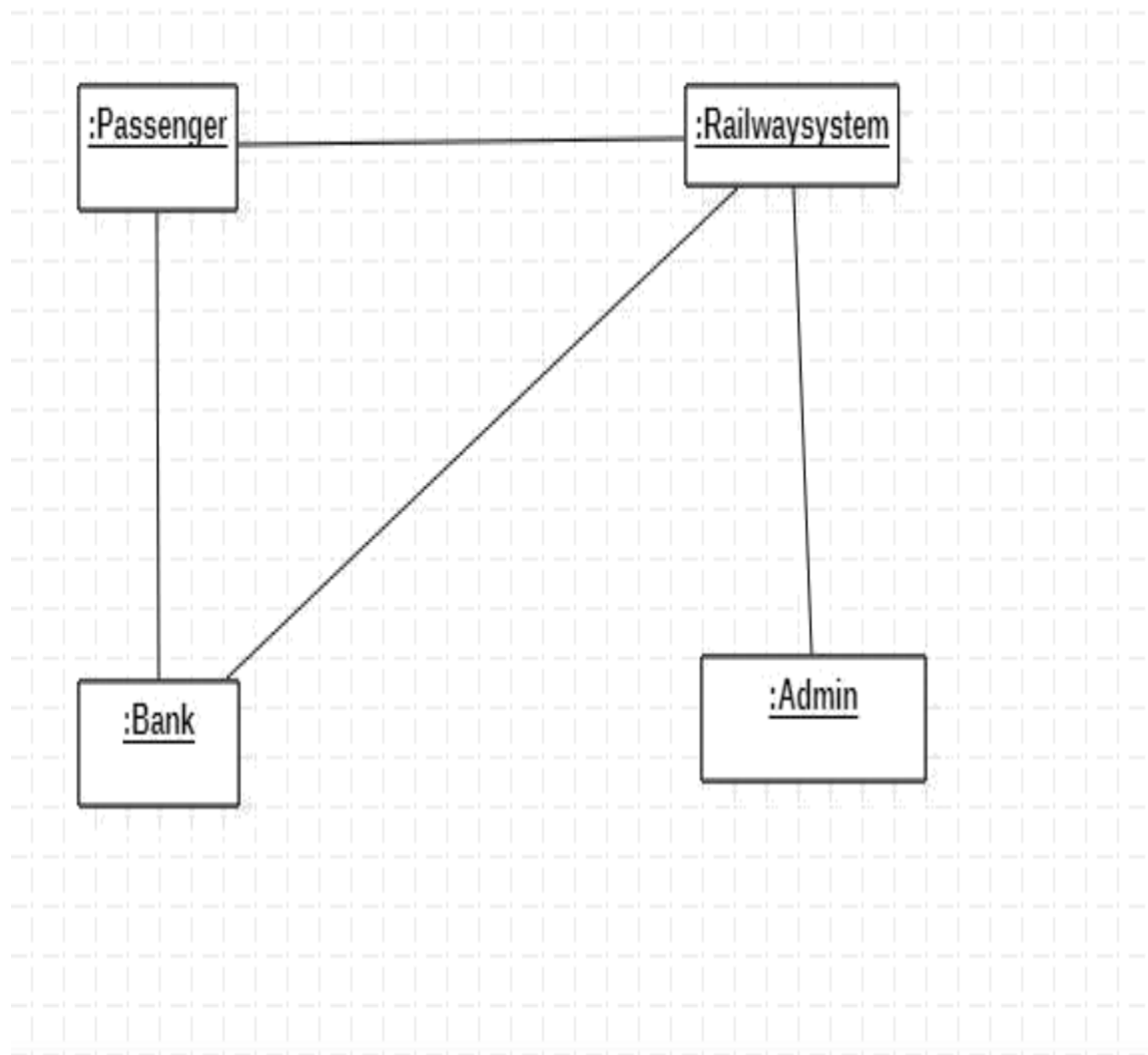
11.2 Usecase Diagram For Railway Reservation System
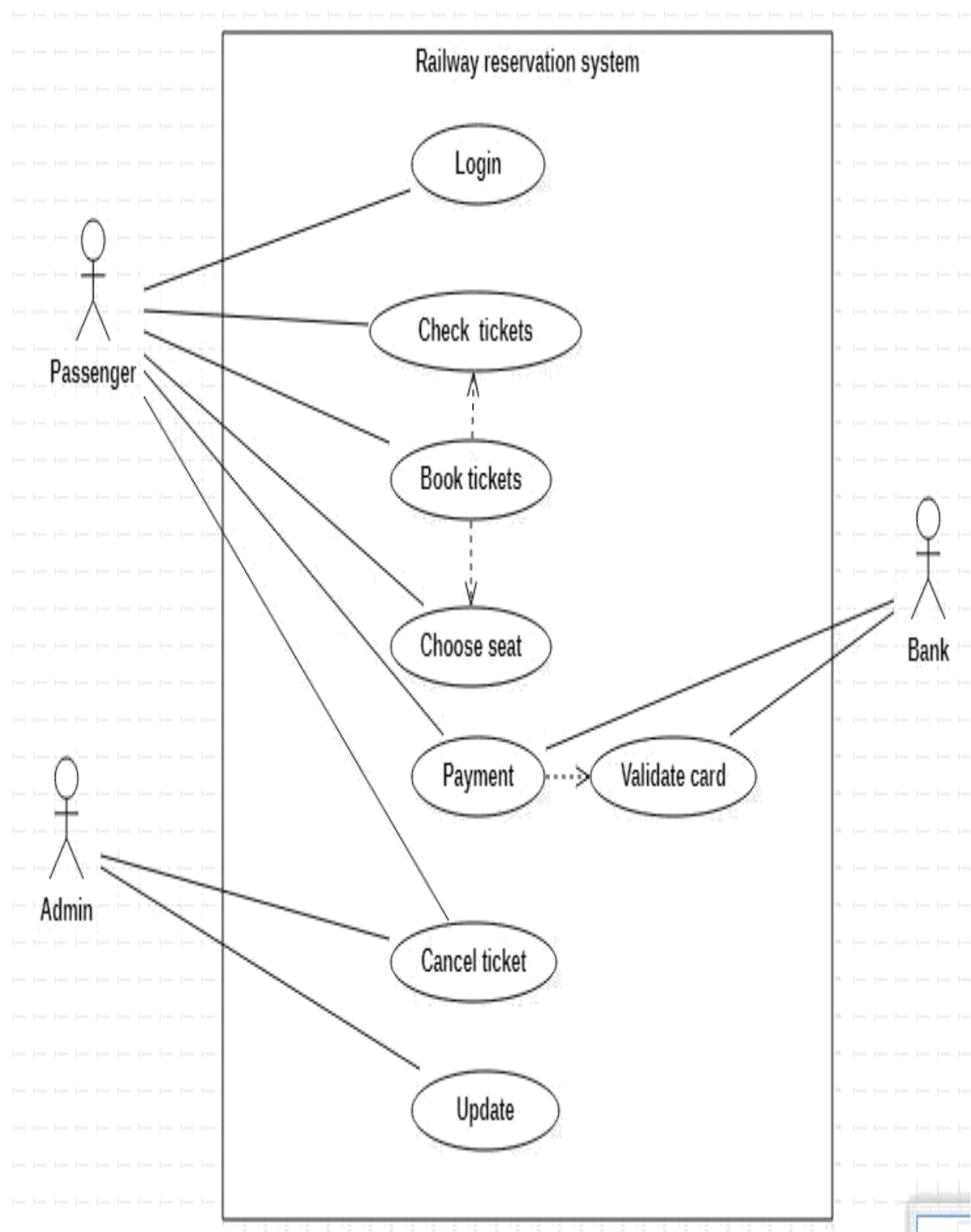
11.3 Sequence Diagram For Railway Reservation System

sd :Railway reservation

| :Passenger | :Admin | :Railwaysystem | :Bank |

1 : login

2 : validate

3 : return status

4 : check ticket

5 : status yes/not

6 : book ticket

7 : update

8 : payment

9 : cancel ticket

10 : «destroy»
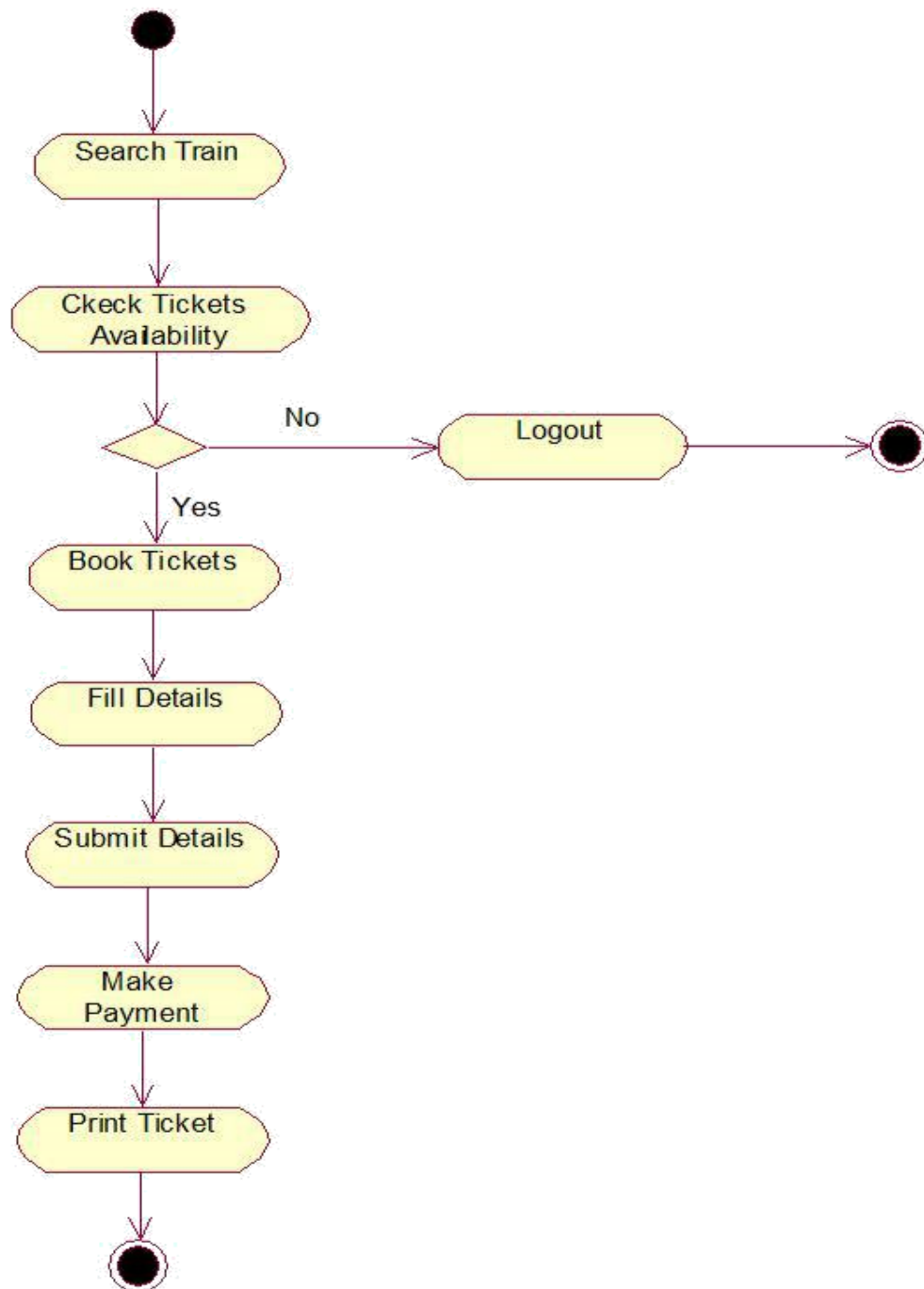
«destroy»
11 :

«destroy»
12 :

13 :
«destroy»

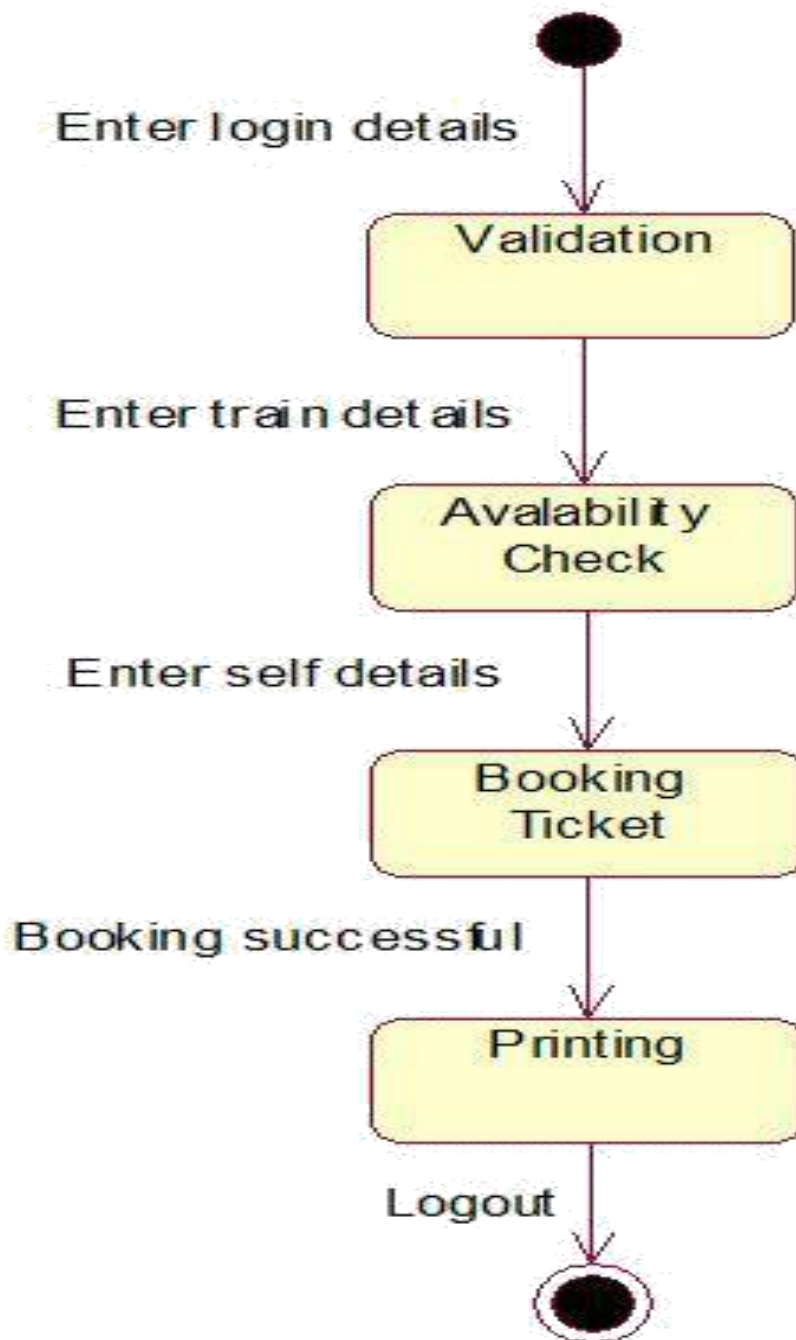**Collaboration Diagram For Railway Reservation System**
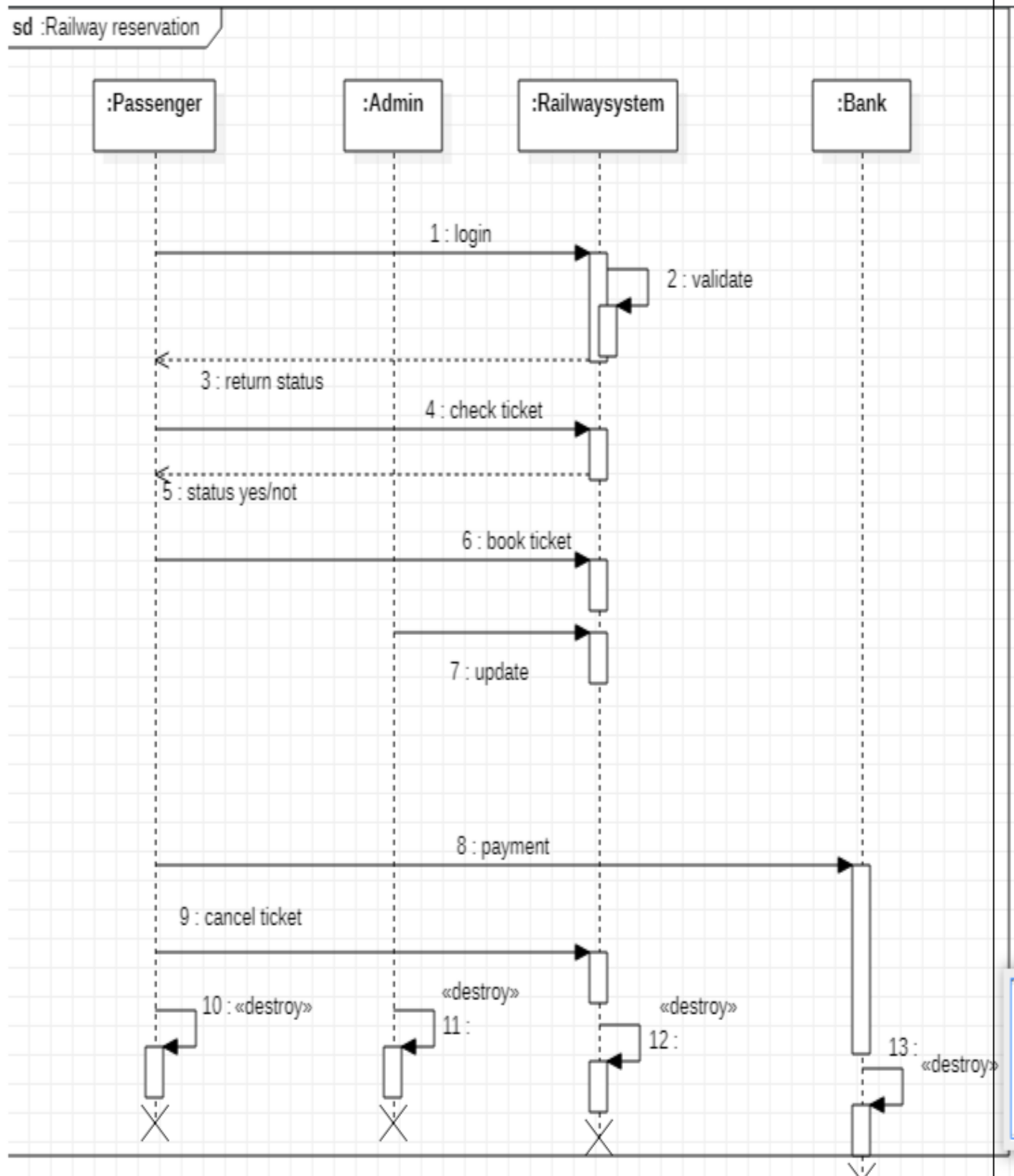
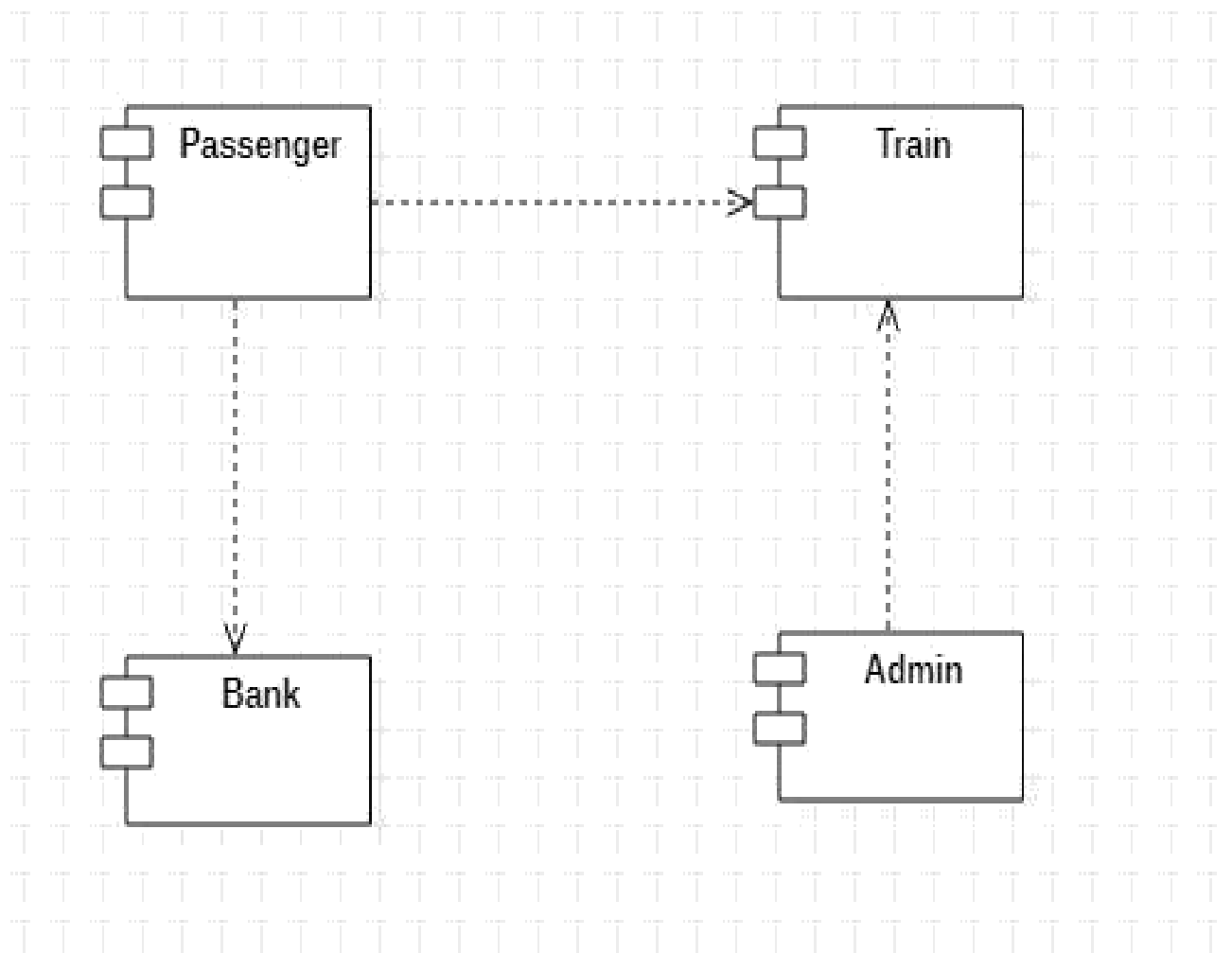Collaboration Diagram For Railway Reservation System
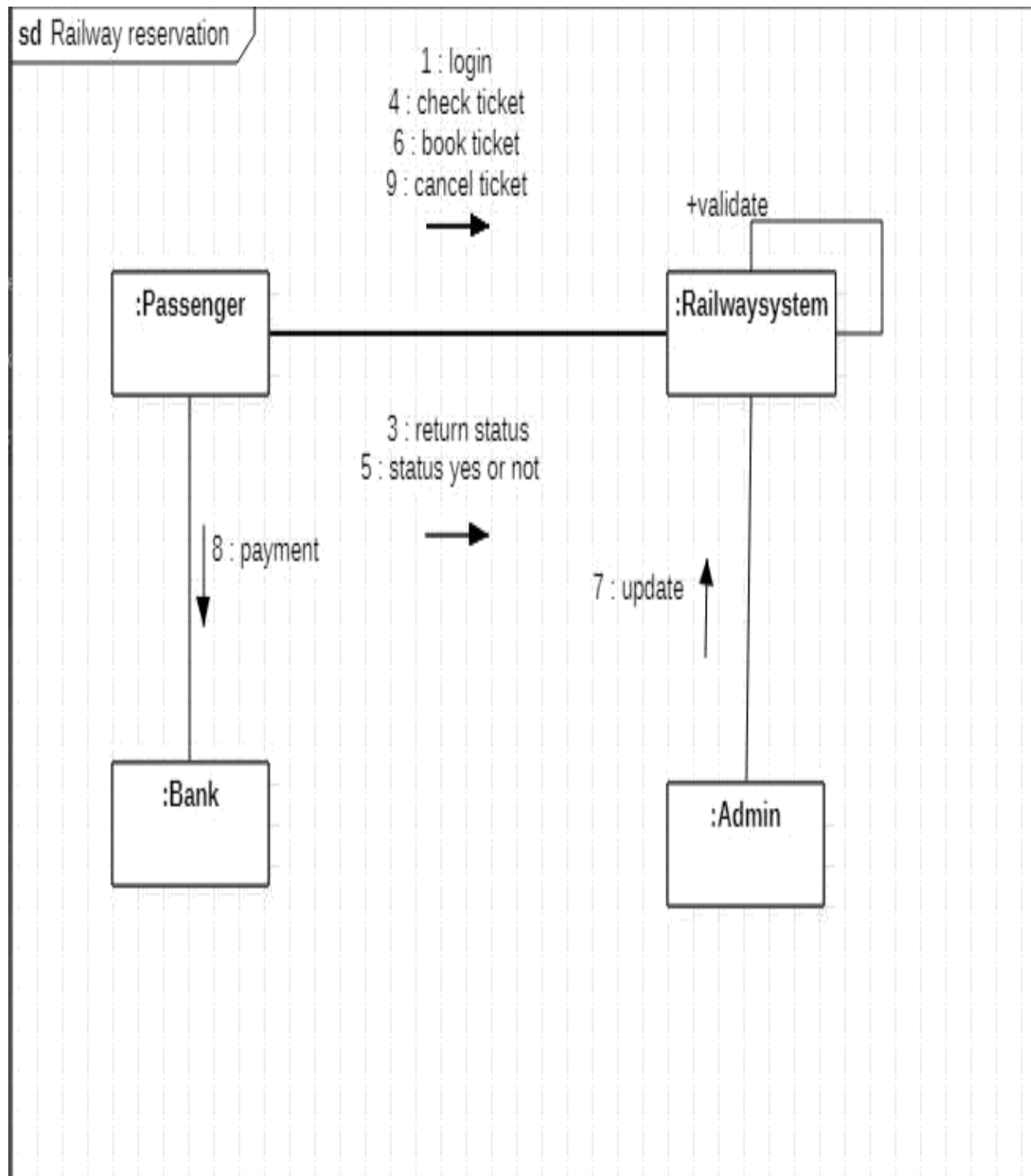
11.4 Activity Diagram For Railway Reservation System

11.5 State chart Diagram For Railway Reservation System

11.6 Component Diagram For Railway Reservation System

11.7 Deployment Diagram For Railway Reservation System

server

client