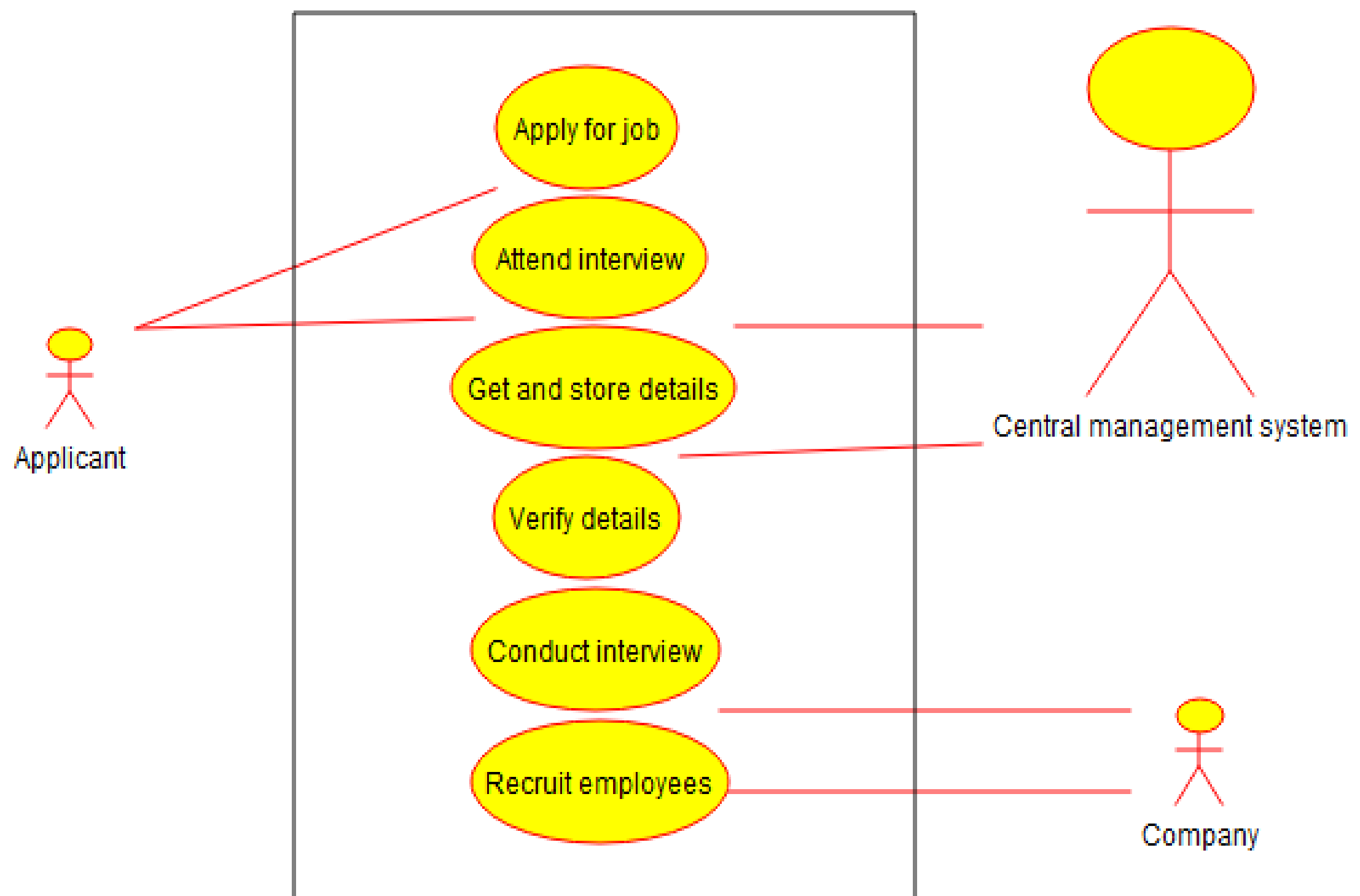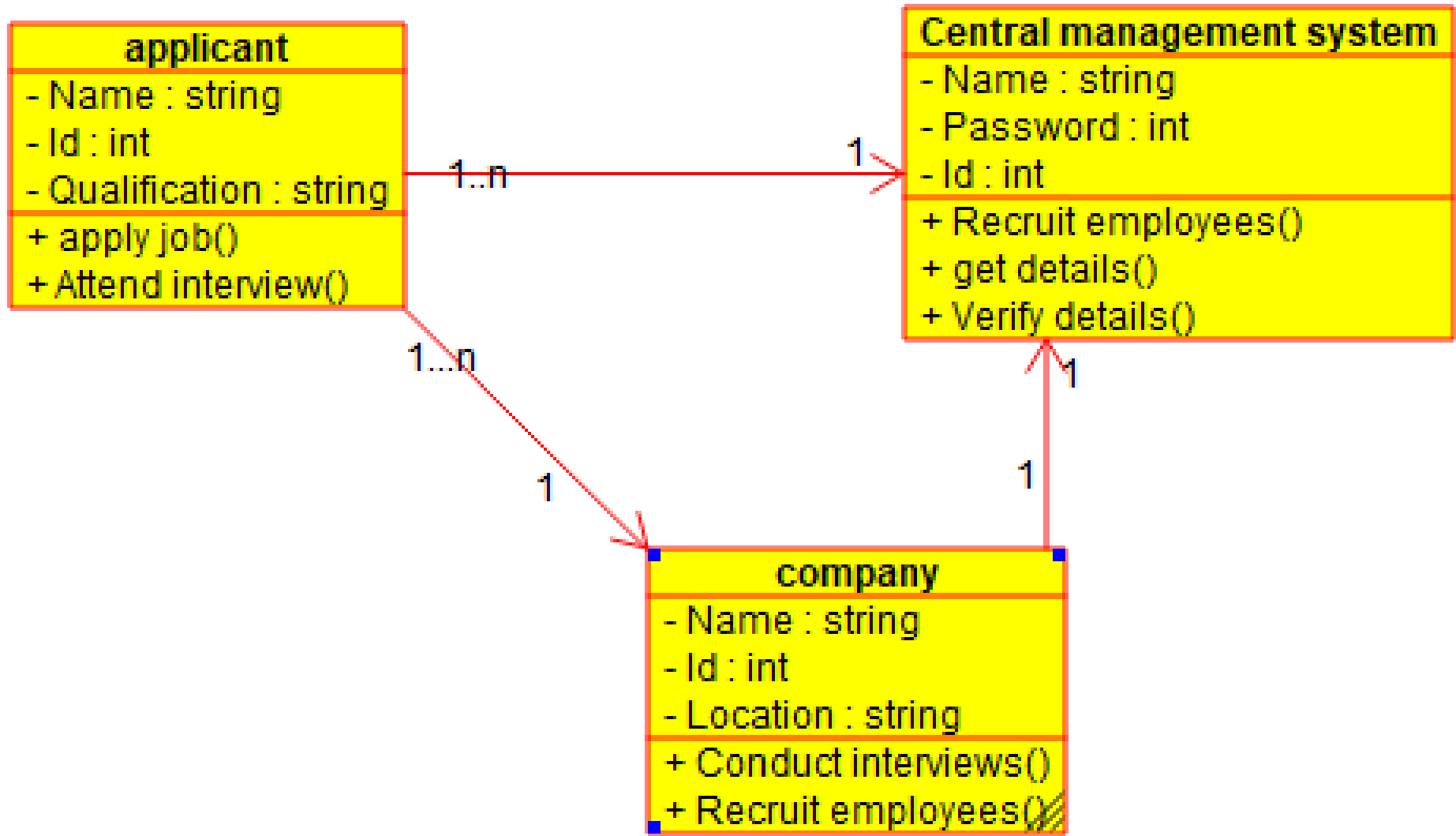1)Develop a system using UML for Recruitment System, to recruit the applicant for a particular job in the company. It was controlled by the central management system to manage the details of the particular applicant who has to be recruited by a company.

AIM: To draw an UML diagrams for Recruiting System to recruit the applicant for particular job using Umbrello software.
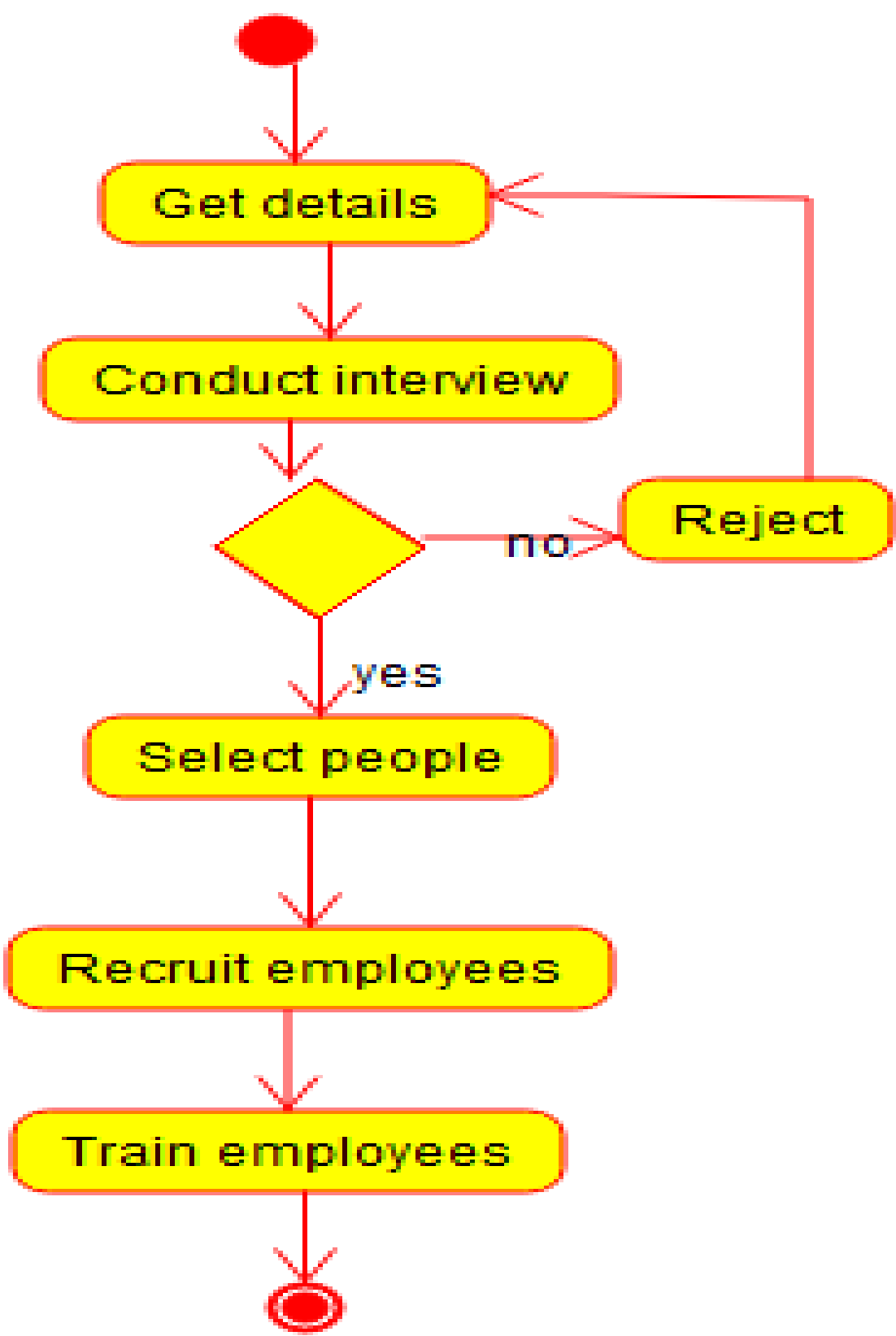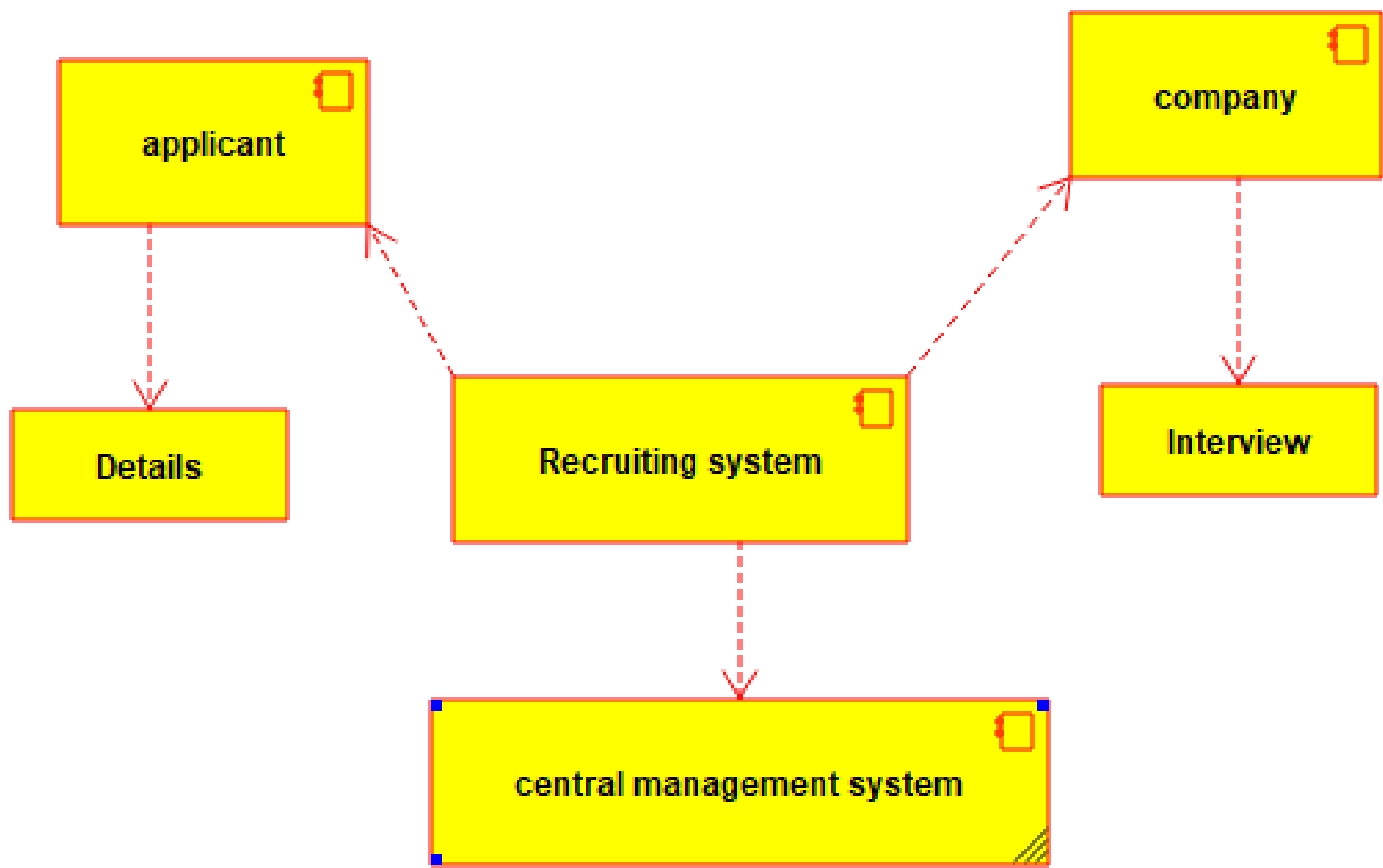
USE CASE:

bhavana

CLASS DIAGRAM:

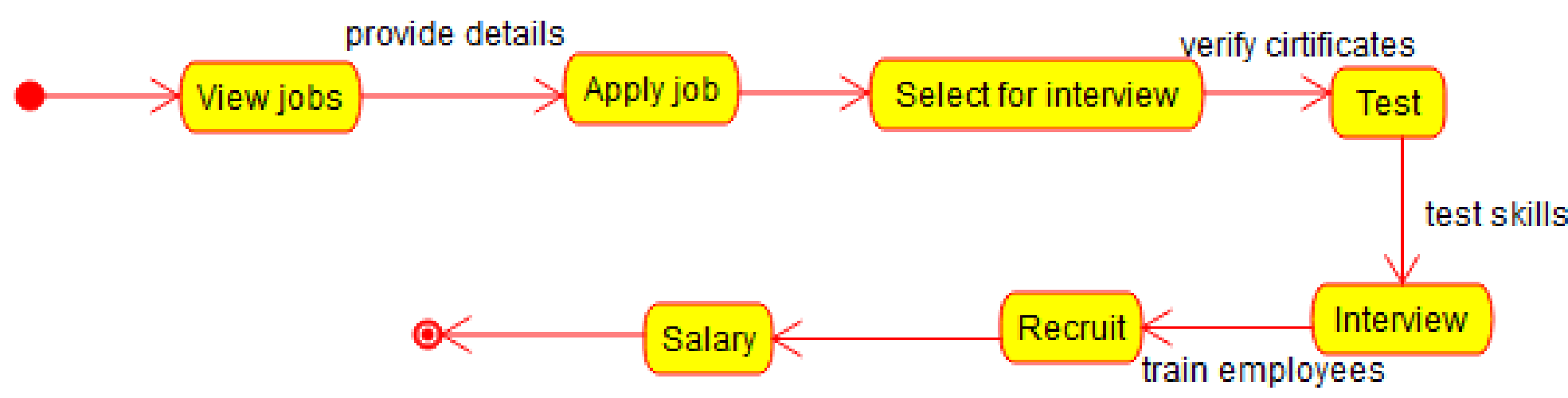| applicant |
| --- |
| - Name : string |
| - Id : int |
| - Qualification : string |
| + apply job() |
| + Attend interview() |

Central management system
- Name : string
- Password : int
- Id : int
+ Recruit employees()
+ get details()
+ Verify details()

1..n — 1

company
- Name : string
- Id : int
- Location : string
+ Conduct interviews()
+ Recruit employees()

1...n   1   1   1

ACTIVITY DIAGRAM:
bhavana

COMPONENT DIAGRAM:

```
  ┌──────────────┐                      ┌──────────────┐
  │  applicant   │                      │   company    │
  └──────────────┘                      └──────────────┘
       │                                       │
       ▼              ┌──────────────┐         ▼
  ┌──────────┐        │  Recruiting  │    ┌──────────┐
  │ Details  │        │   system     │    │ Interview│
  └──────────┘        └──────────────┘    └──────────┘
                            │
                            ▼
                  ┌──────────────────────┐
                  │ central management   │
                  │      system          │
                  └──────────────────────┘
```

bhavana

STATE CHART DIAGRAM:

```
         provide details                          verify cirtificates
●──→ [View jobs] ──→ [Apply job] ──→ [Select for interview] ──→ [Test]
                                                                   │
                                                                   │ test skills
                                                                   ▼
◎←── [Salary] ←── [Recruit] ←──────────────────────── [Interview]
                        train employees
```
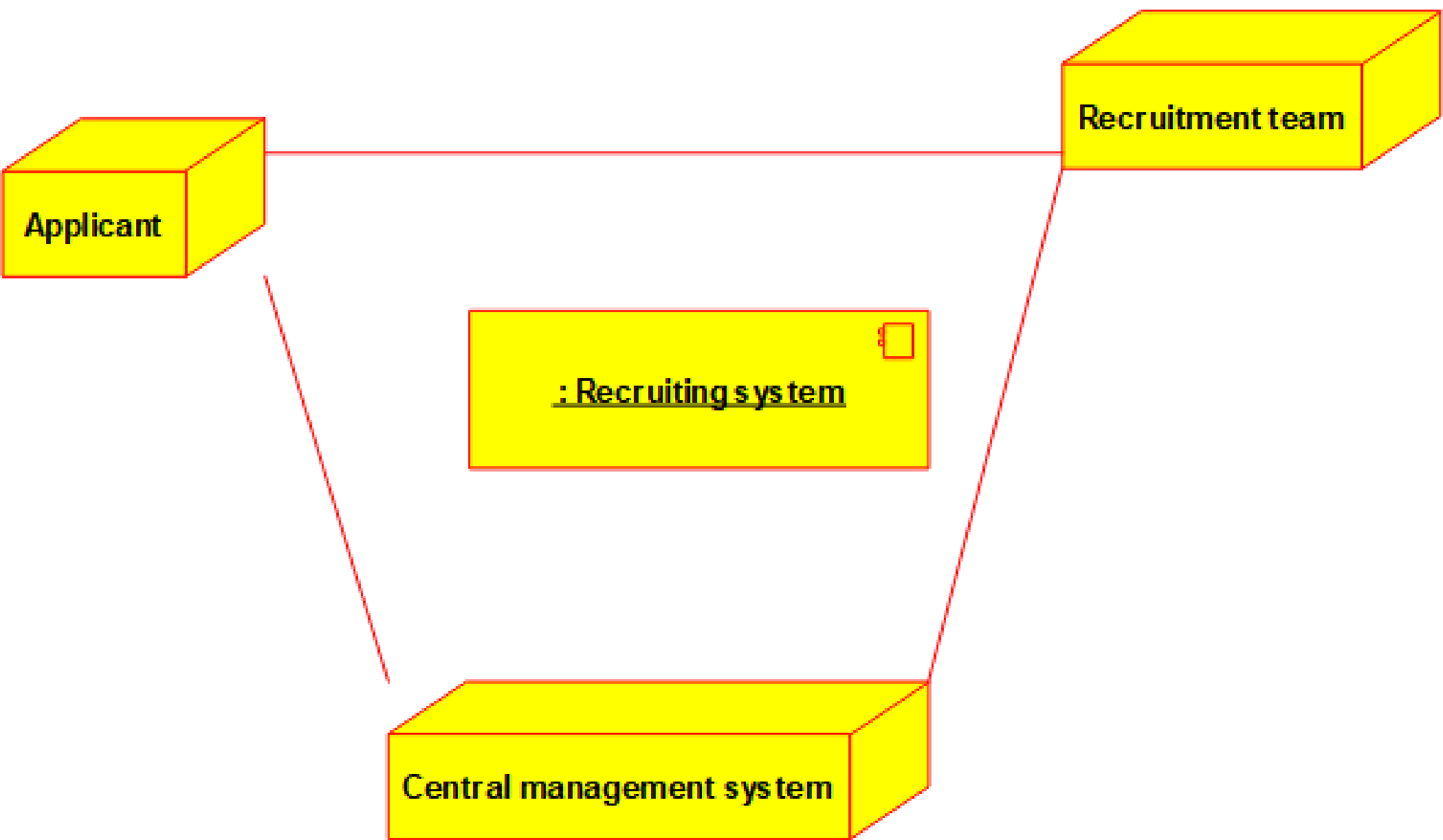
bhavana

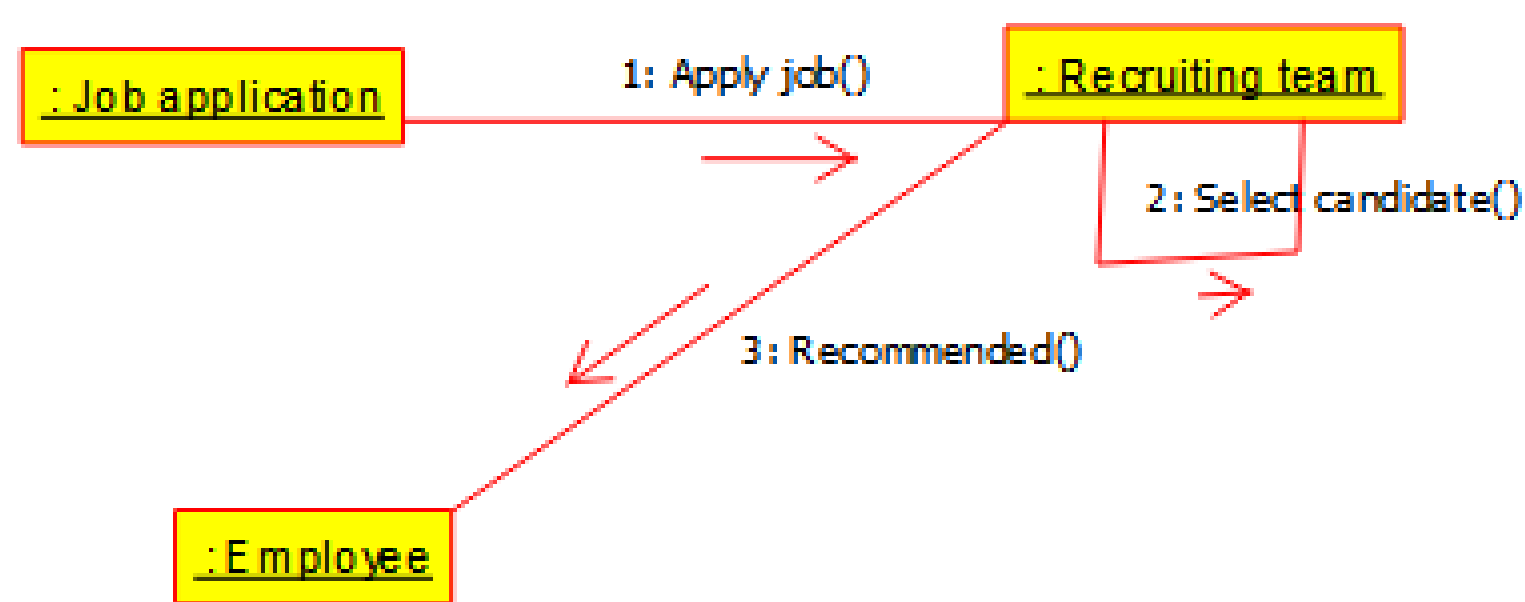**SEQUENCE DIAGRAM:**
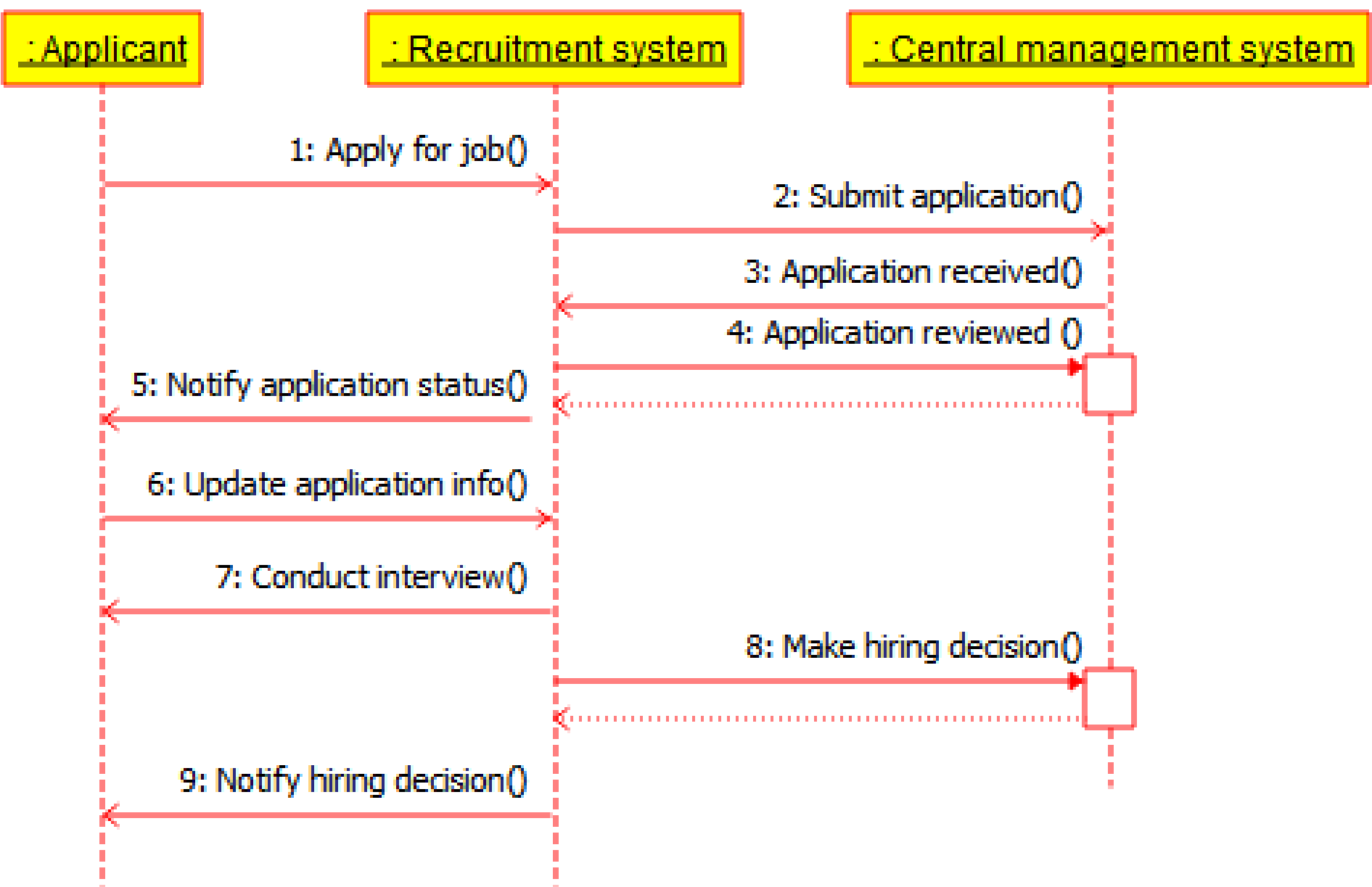
bhavana

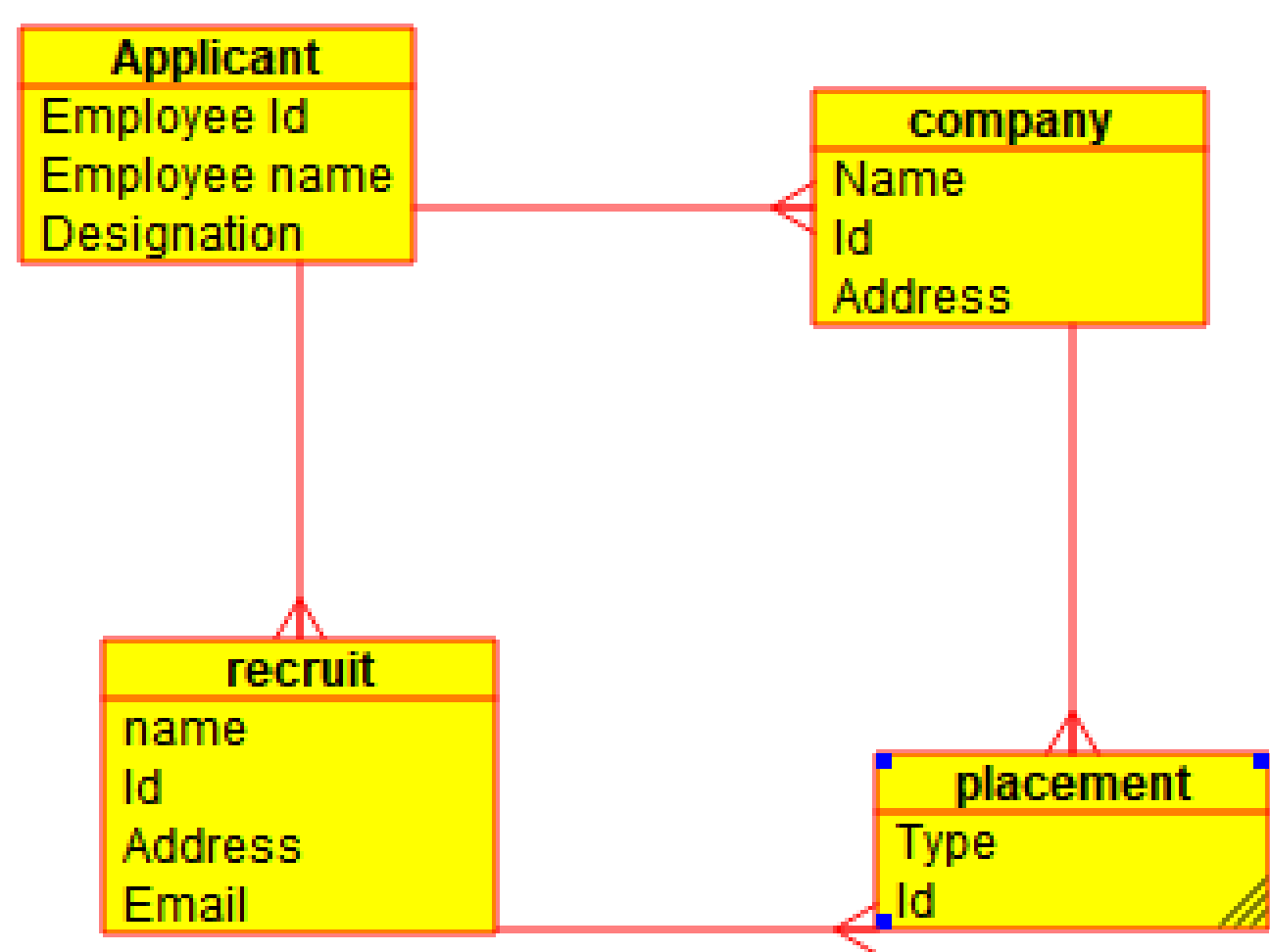**DEPLOYMENT DIAGRAM:**

bhavana

COMMUNICATION DIAGRAM:
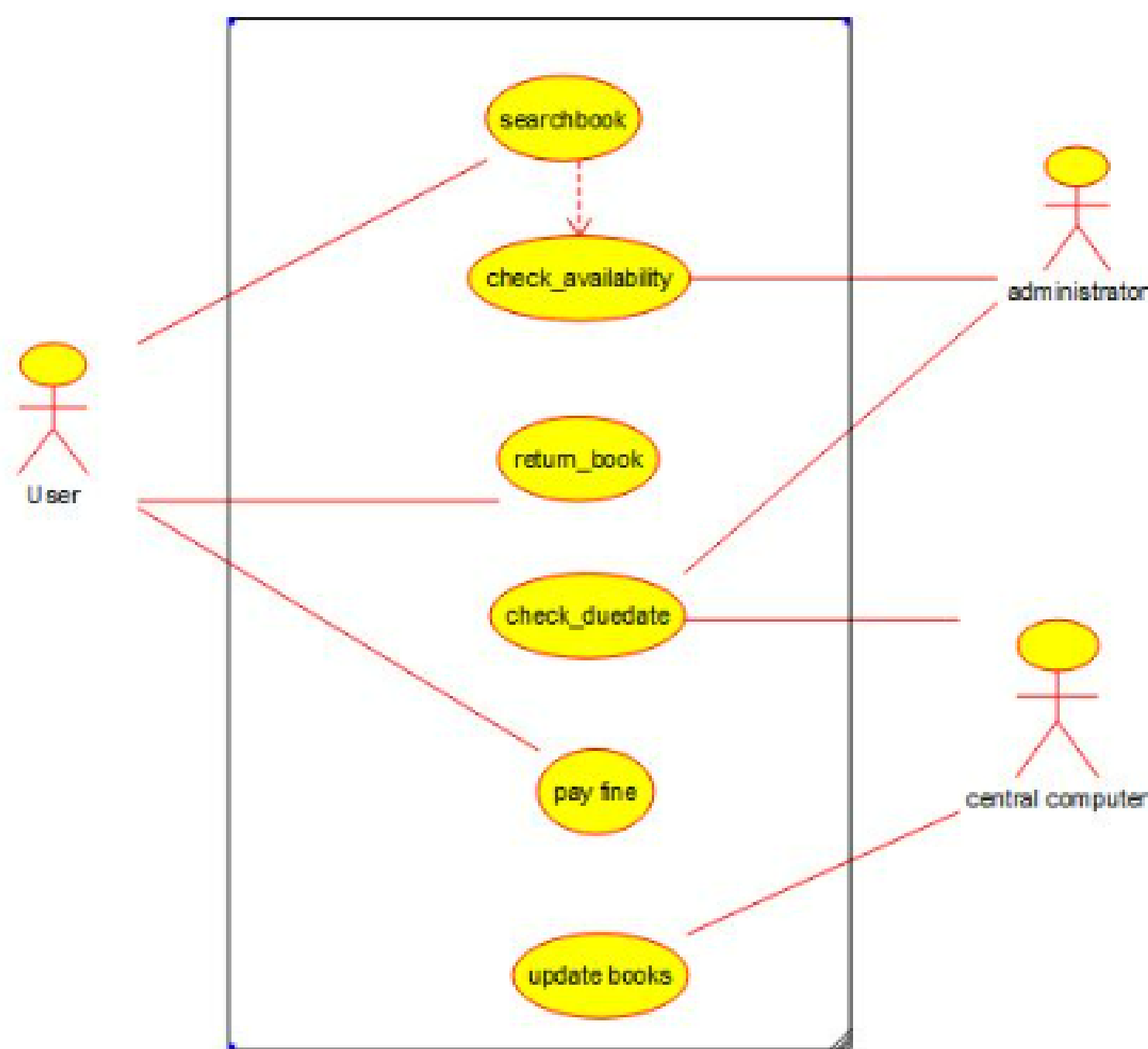

bhvavana

ENTITY RELATIONSHIP DIAGRAM:

bhavana

RESULT: Thus the UML diagrams for Job Recruiting system has been drawn successfully by using Umbrello Software.

2)Develop a system using UML for Library Management System. It should verify the details of the reader by the central computer. The details regarding the reader will be provided to the central computer through the administrator in the library and the computer will verify the details of the reader and provide approval to the office. Then the books that are needed by the reader will issue from the library to him.

AIM: To draw an UML diagrams for Library Management System using Umbrello software.
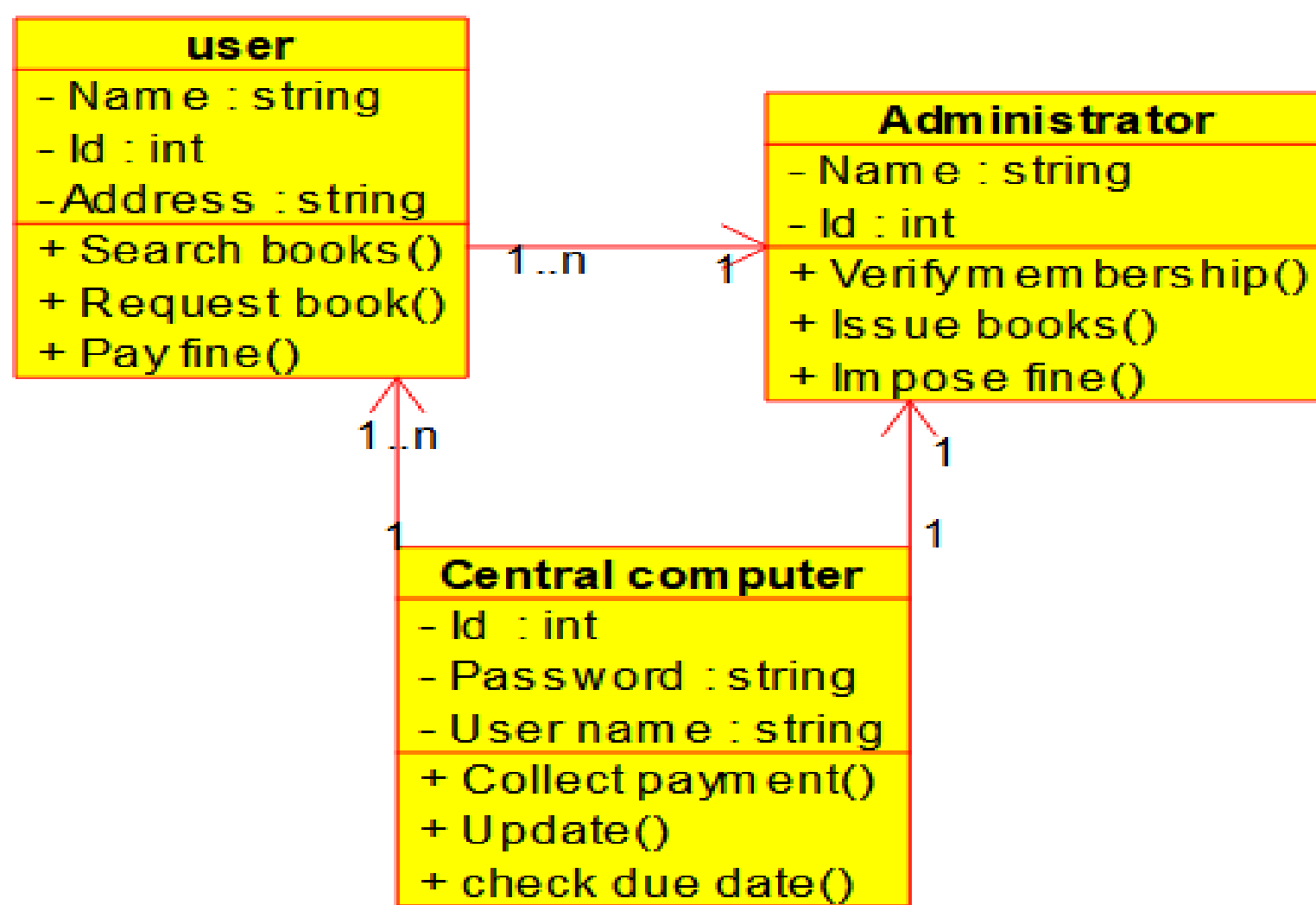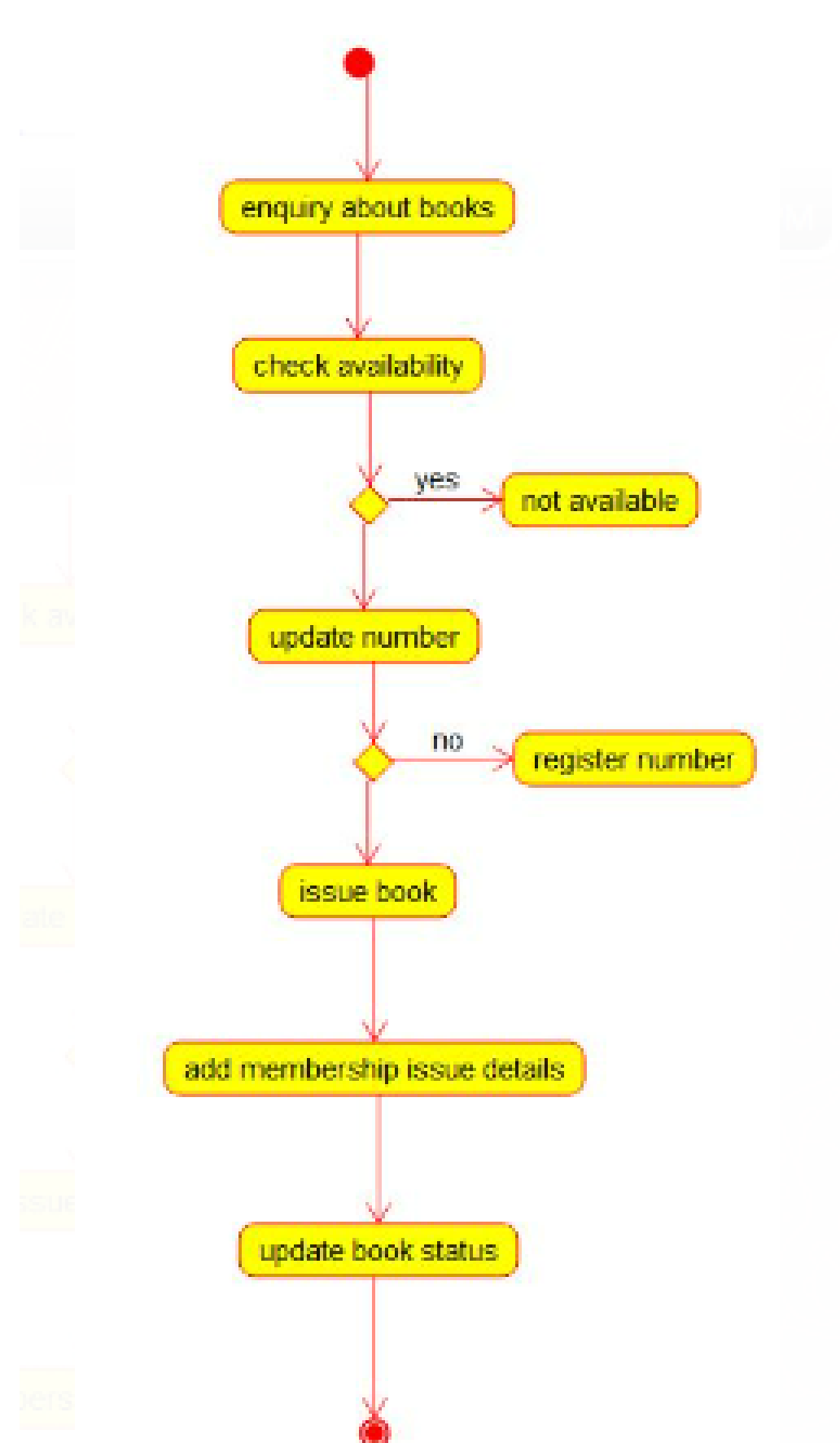
USE CASE:

bhavana

CLASS DIAGRAM:

bhavana

ACTIVITY DIAGRAM:
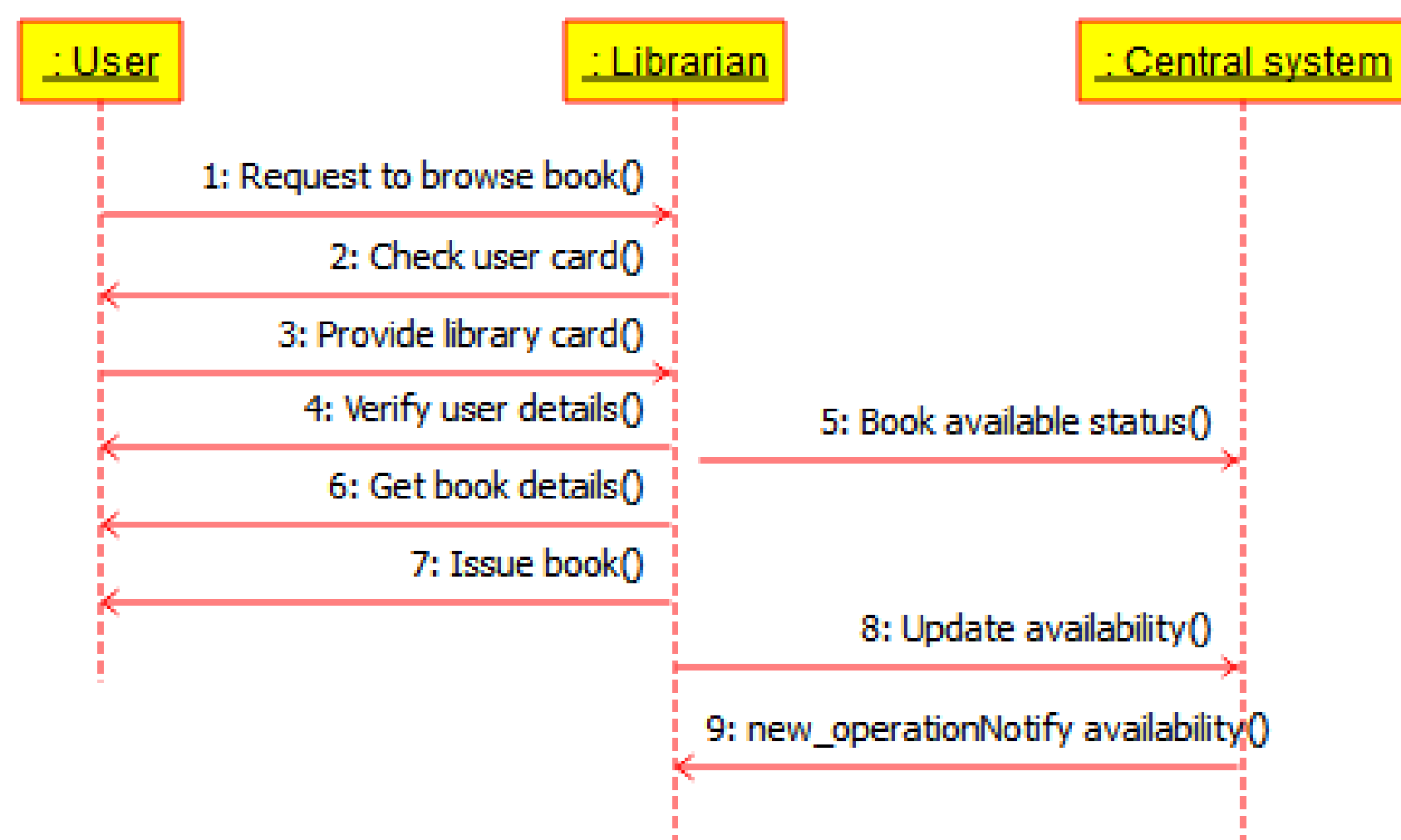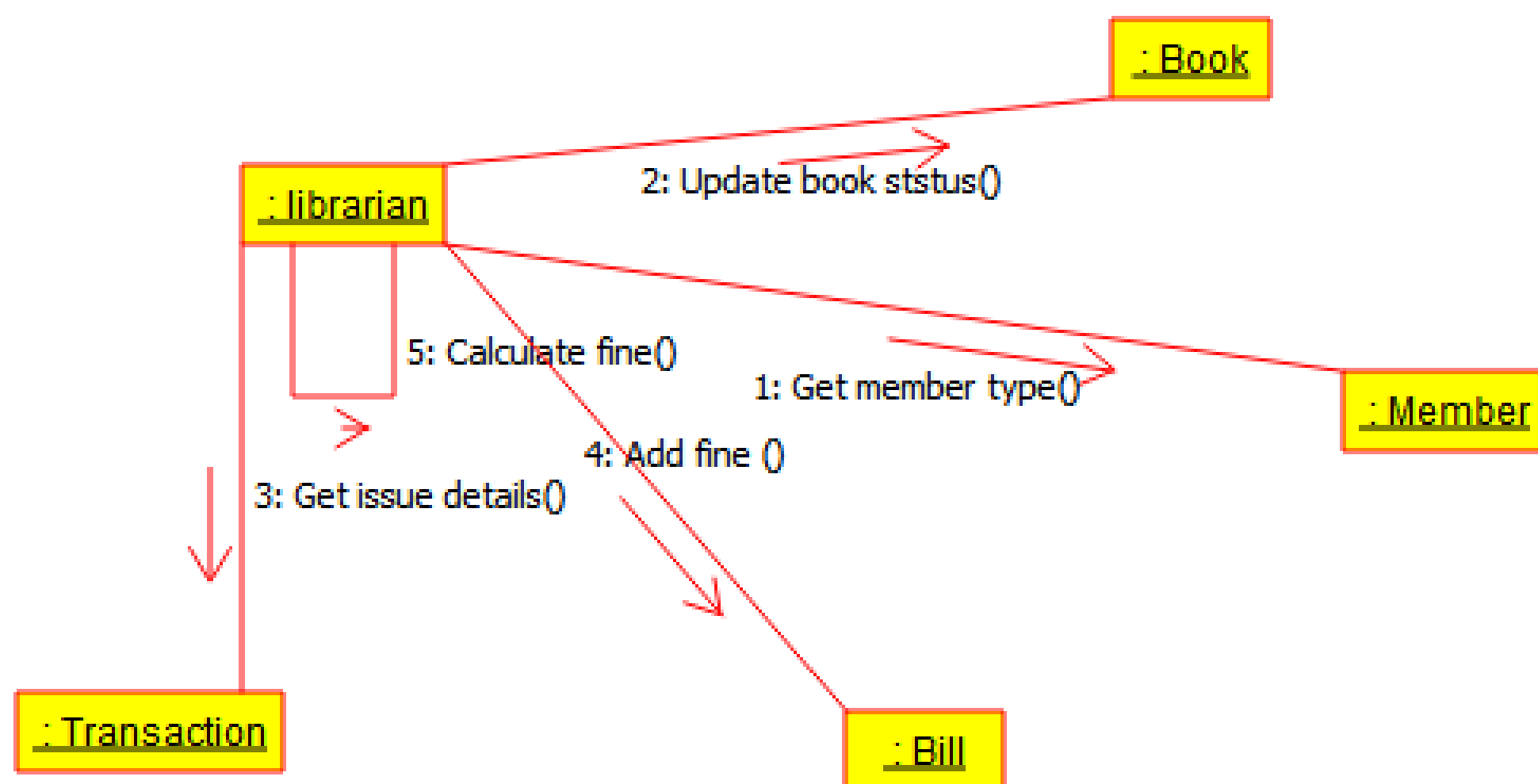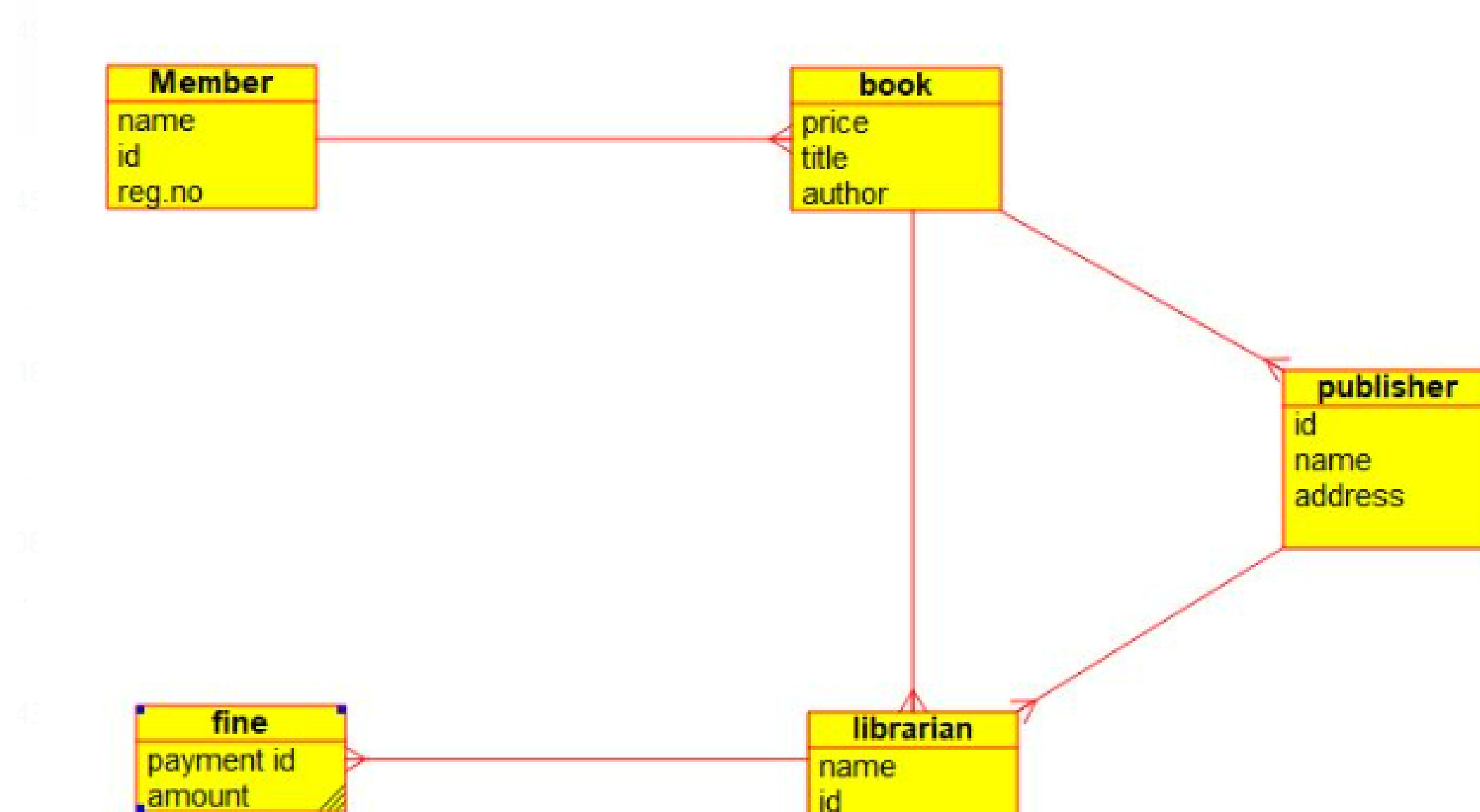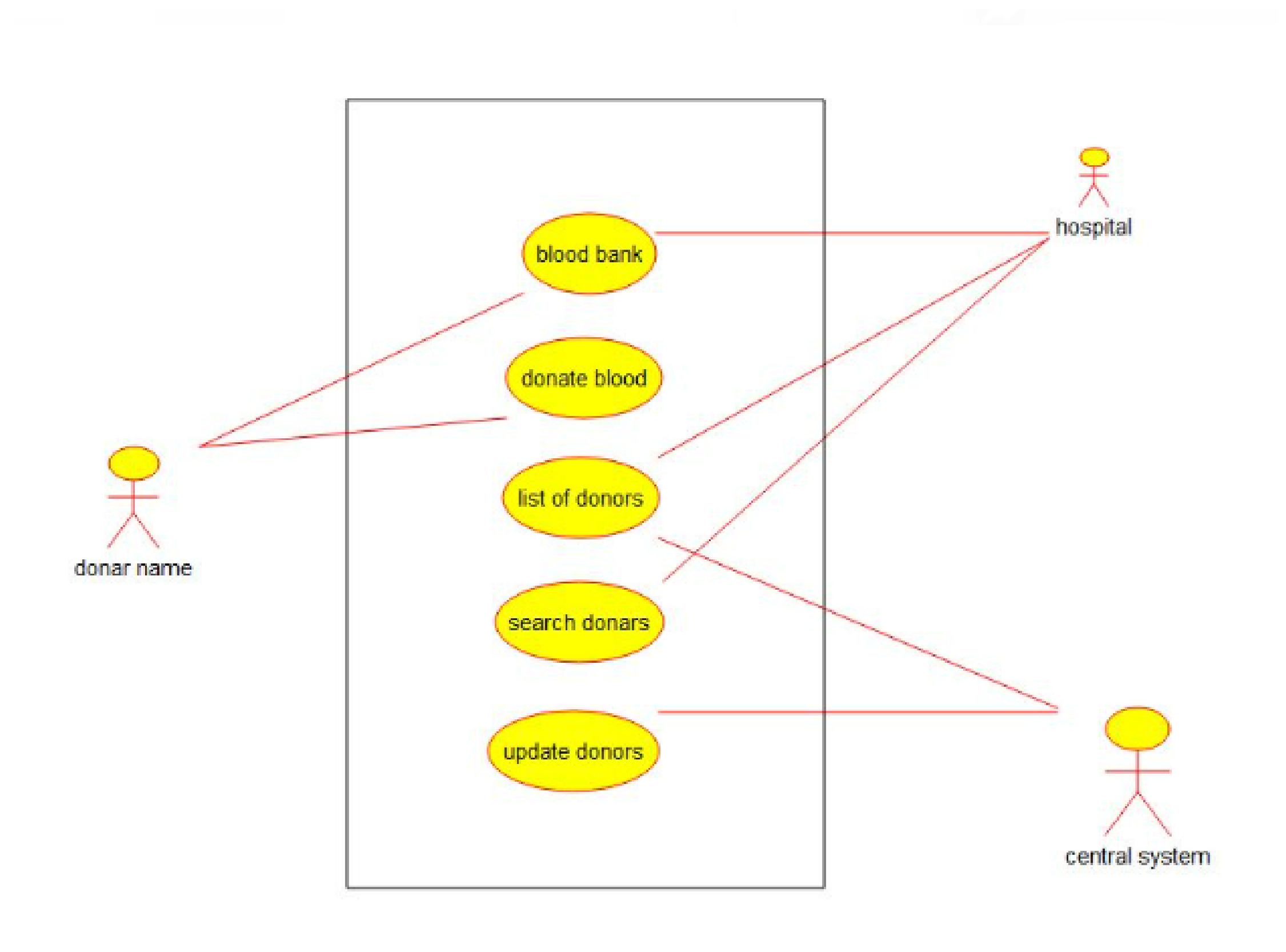

bhavana

STATE CHART DIAGRAM:

Found book   Request librarian

Search book → Request book → Receive book

Return in time

Update profile ← Pay fine ← Return book

Late return

bhavana

DEPLOYMENT DIAGRAM:

user

librarian

central computer
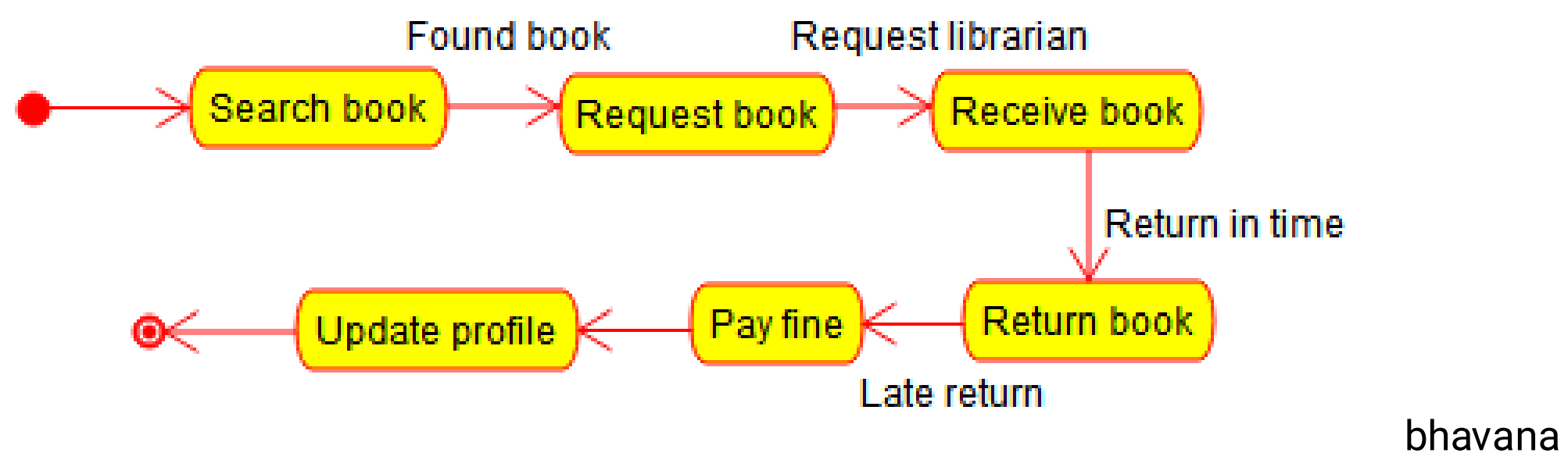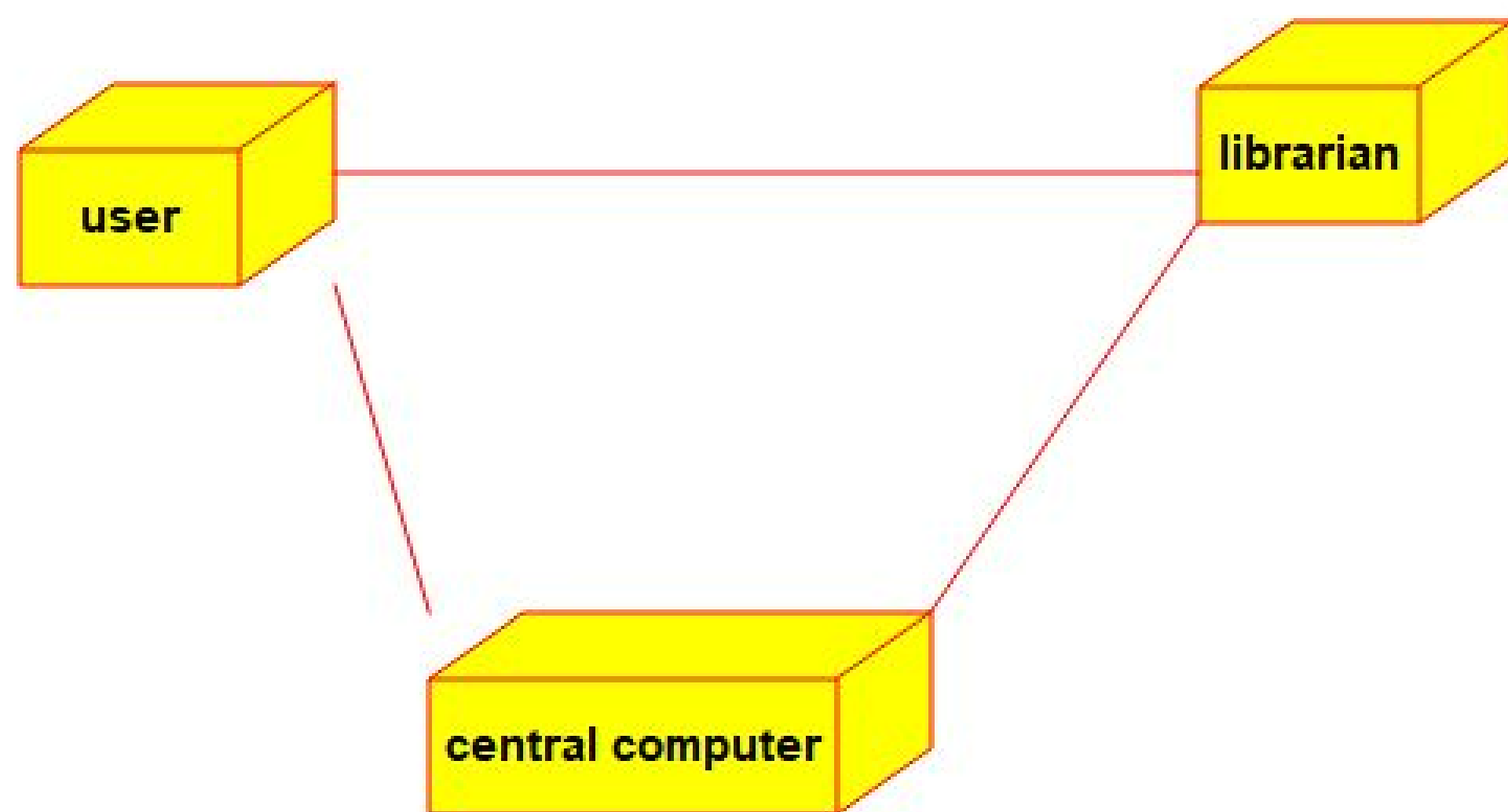
bhavana

COMPONENT DIAGRAM:
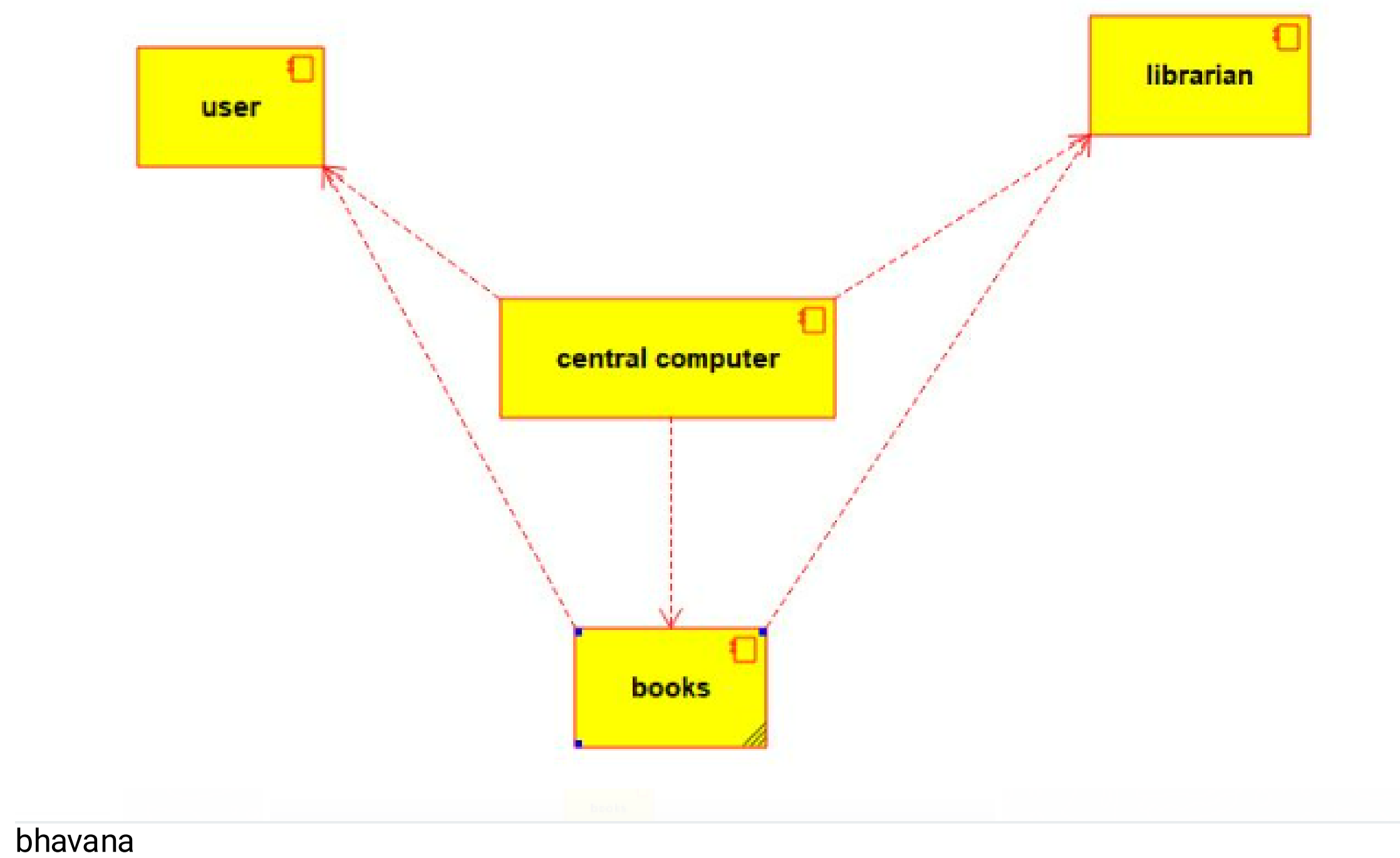
bhavana

SEQUENCE DIAGRAM:

bhavana

COMMUNICATION DIAGRAM:

bhavana

ENTITY RELATIONSHIP DIAGRAM:

bhavana

RESULT: Thus the UML diagrams for Library Management System has been drawn successfully by using umbrello software.

3)Develop a system using UML for Blood Bank Registration System. The system should have the list of donors and the hospitals can check for the donor's availability and get their appointment. The donor and the hospital can interact with the central system
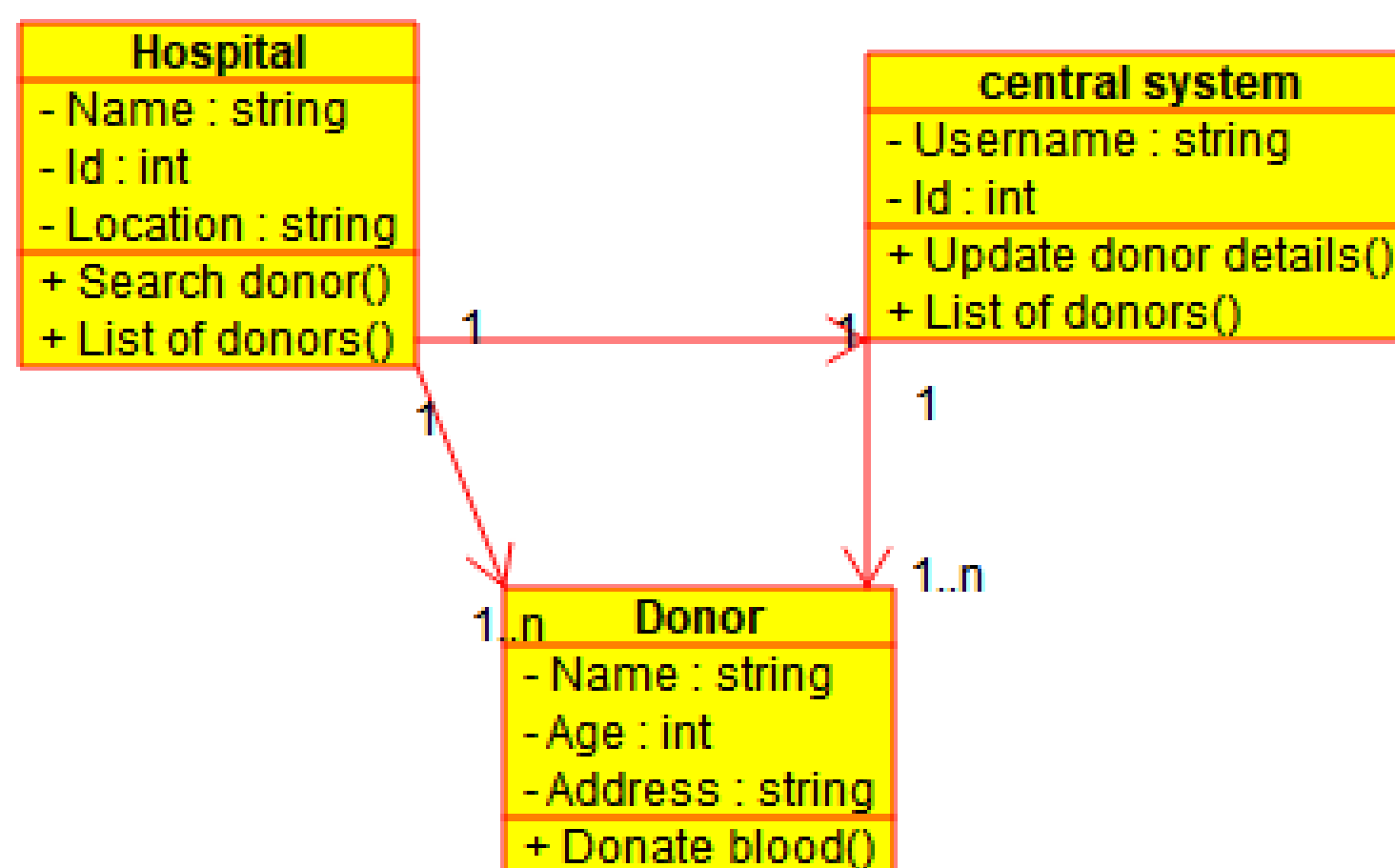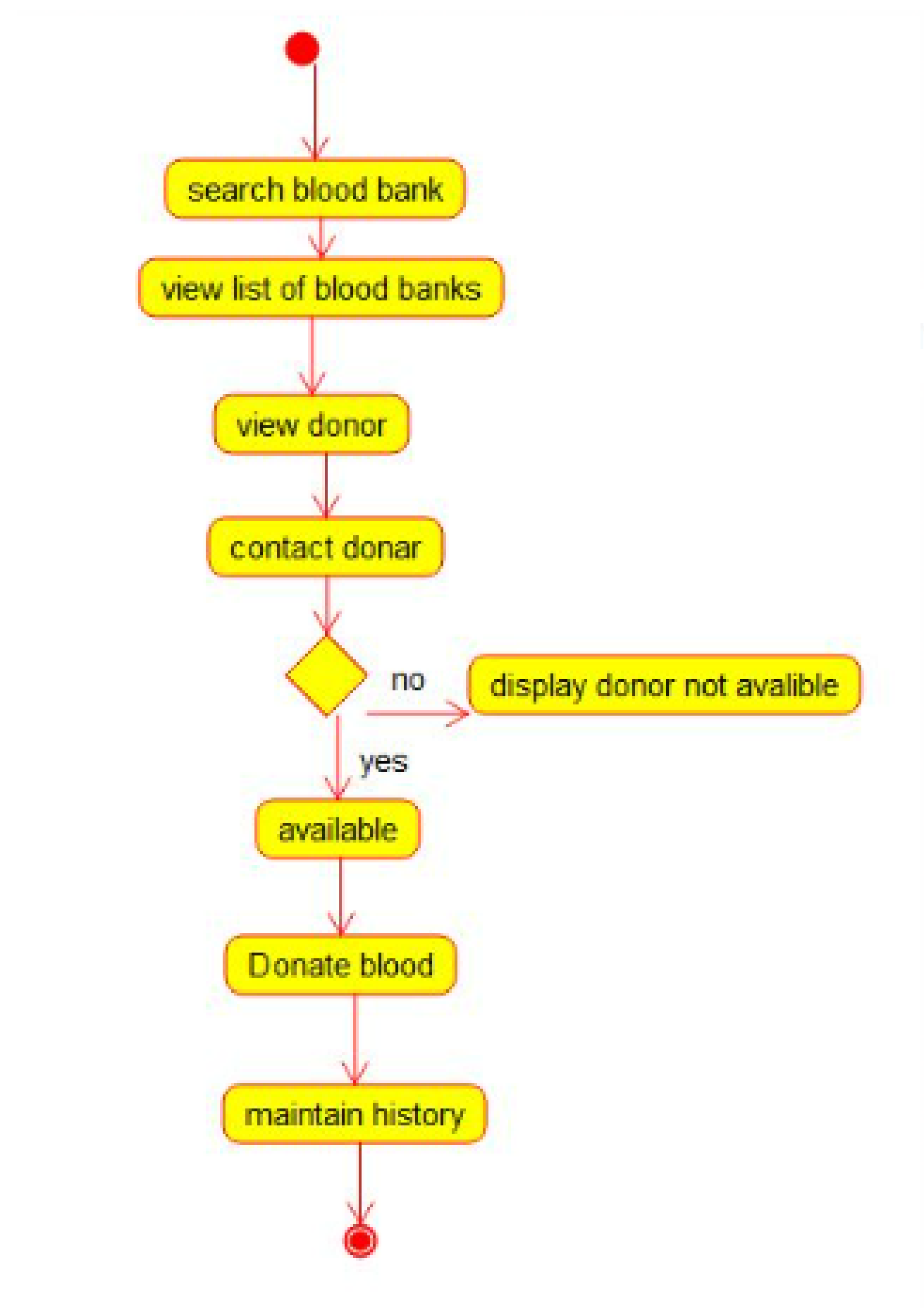
AIM: To draw an UML diagrams for Blood Bank System by using Umbrello Software.
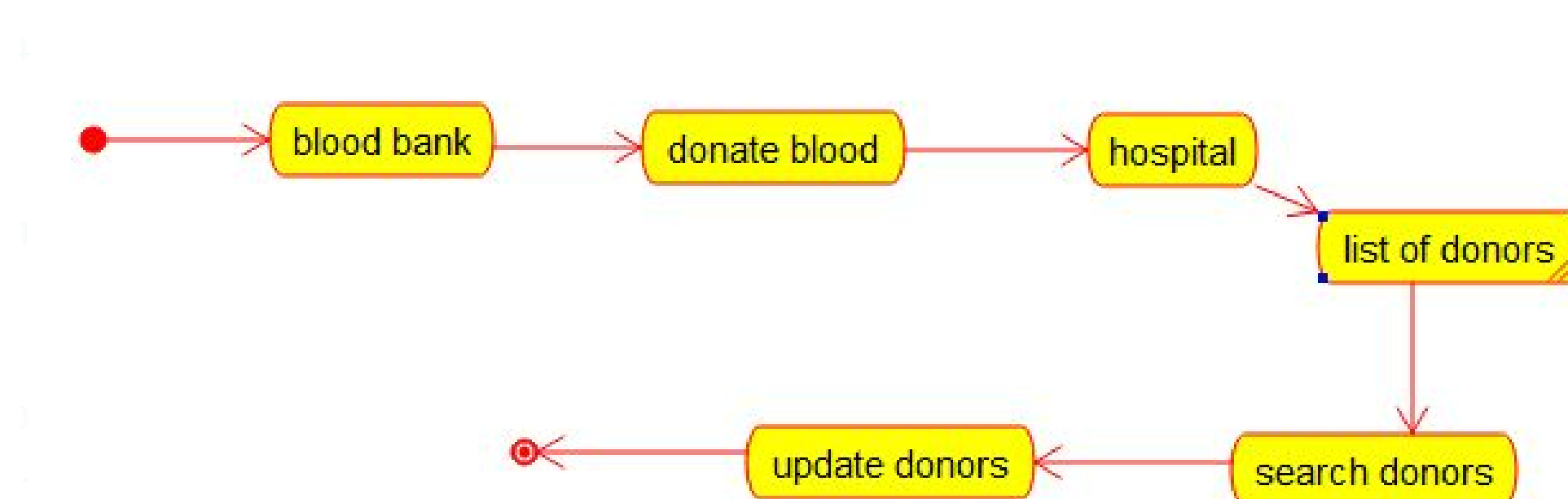
USE CASE:

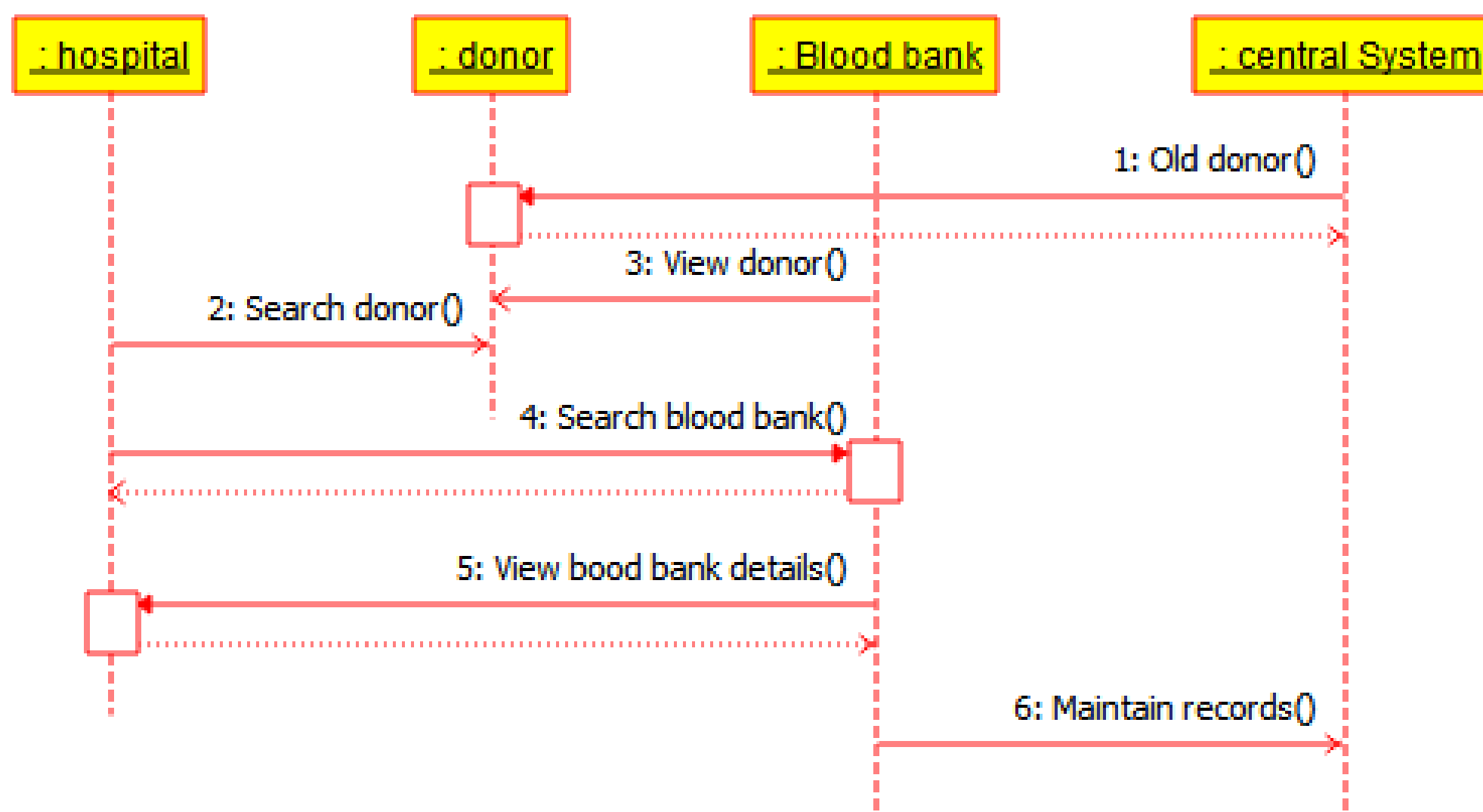bhavana

CLASS DIAGRAM:

bhavana
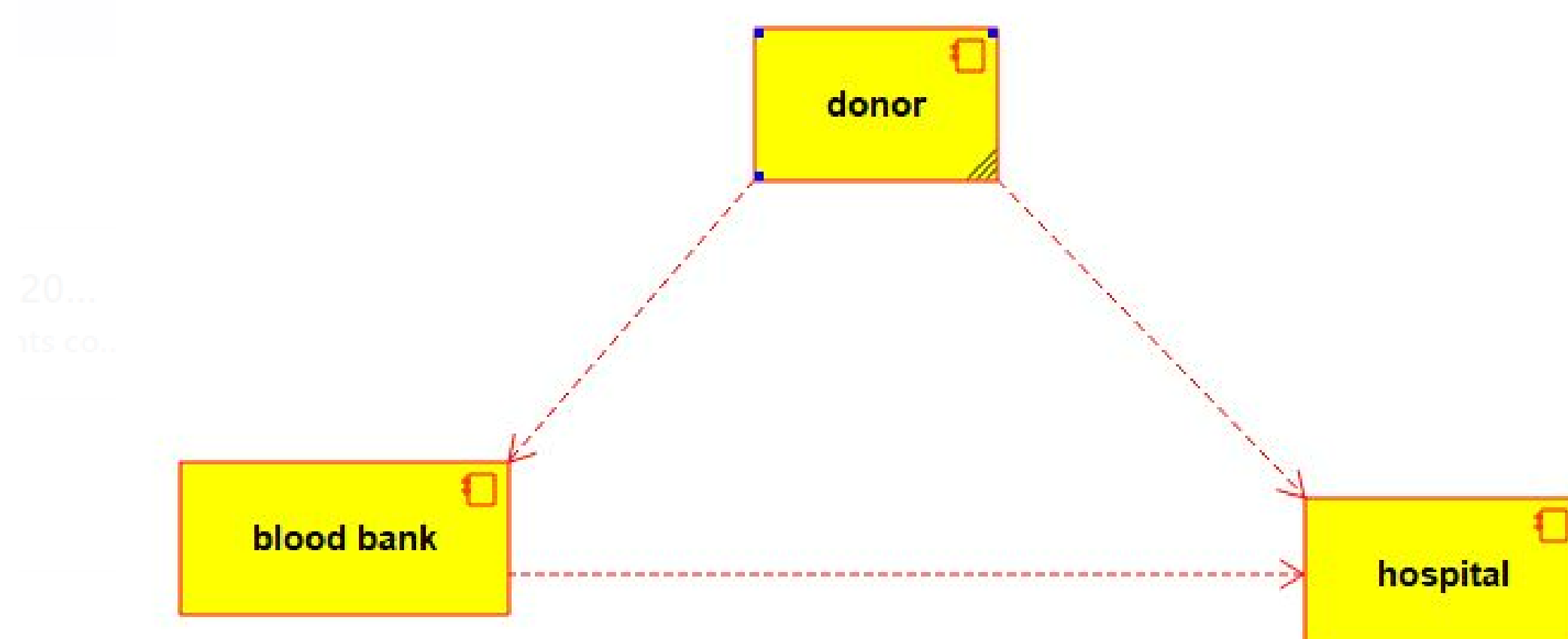
ACTIVITY DIAGRAM:

bhavana

STATE CHART DIAGRAM:
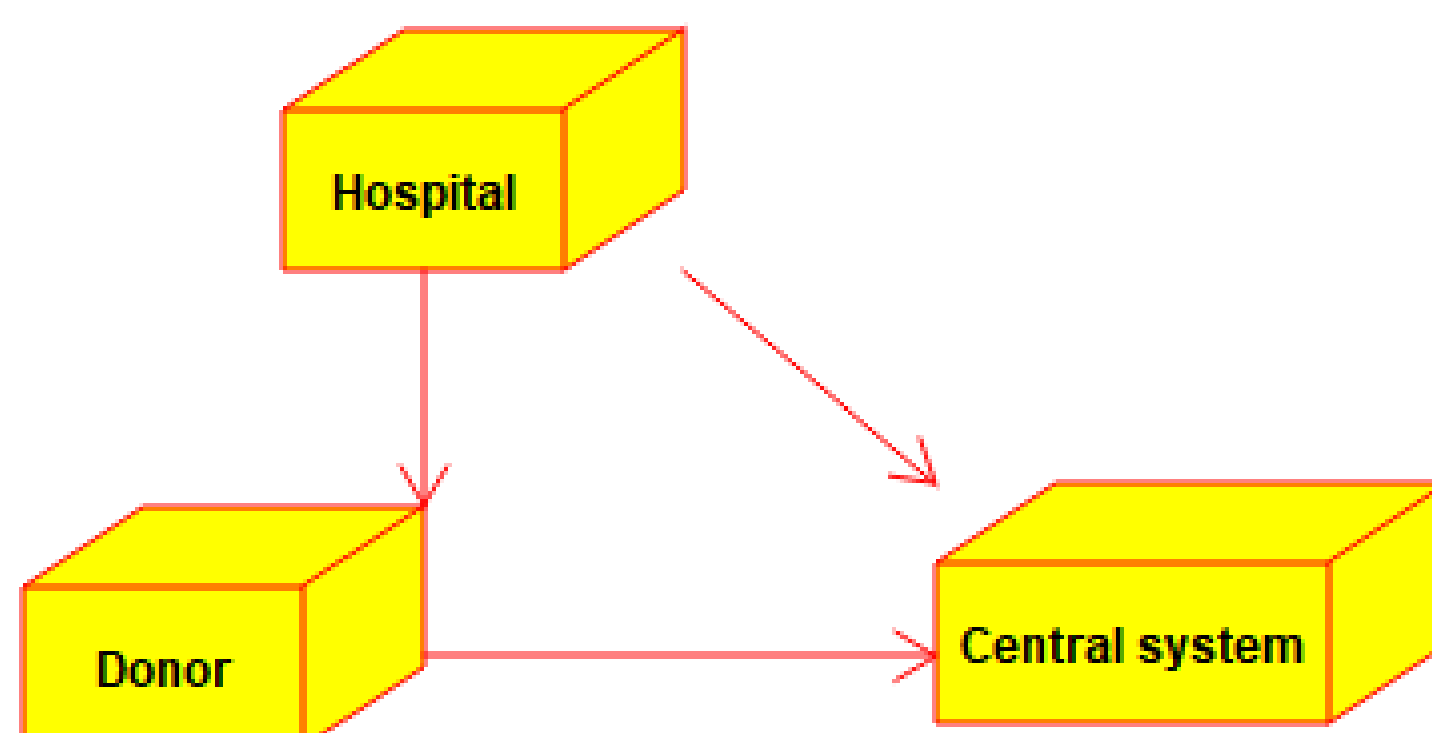

bhavana

SEQUENCE DIAGRAM:

bhavana

COMPONENT DIAGRAM:

20...
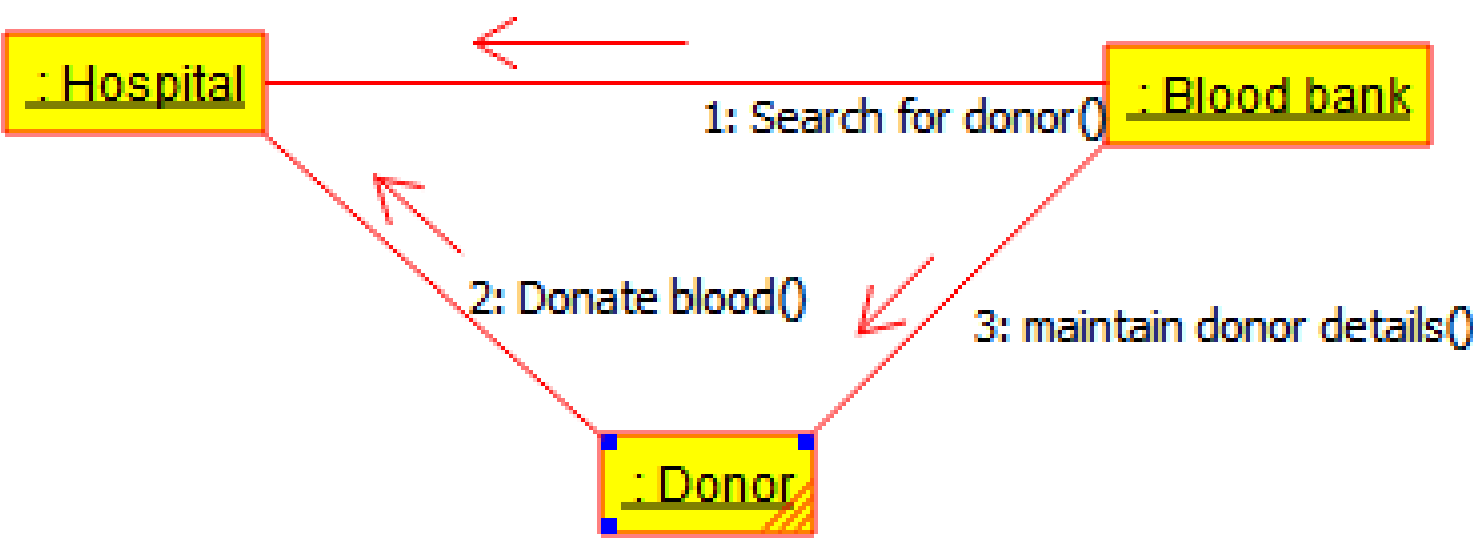its co...

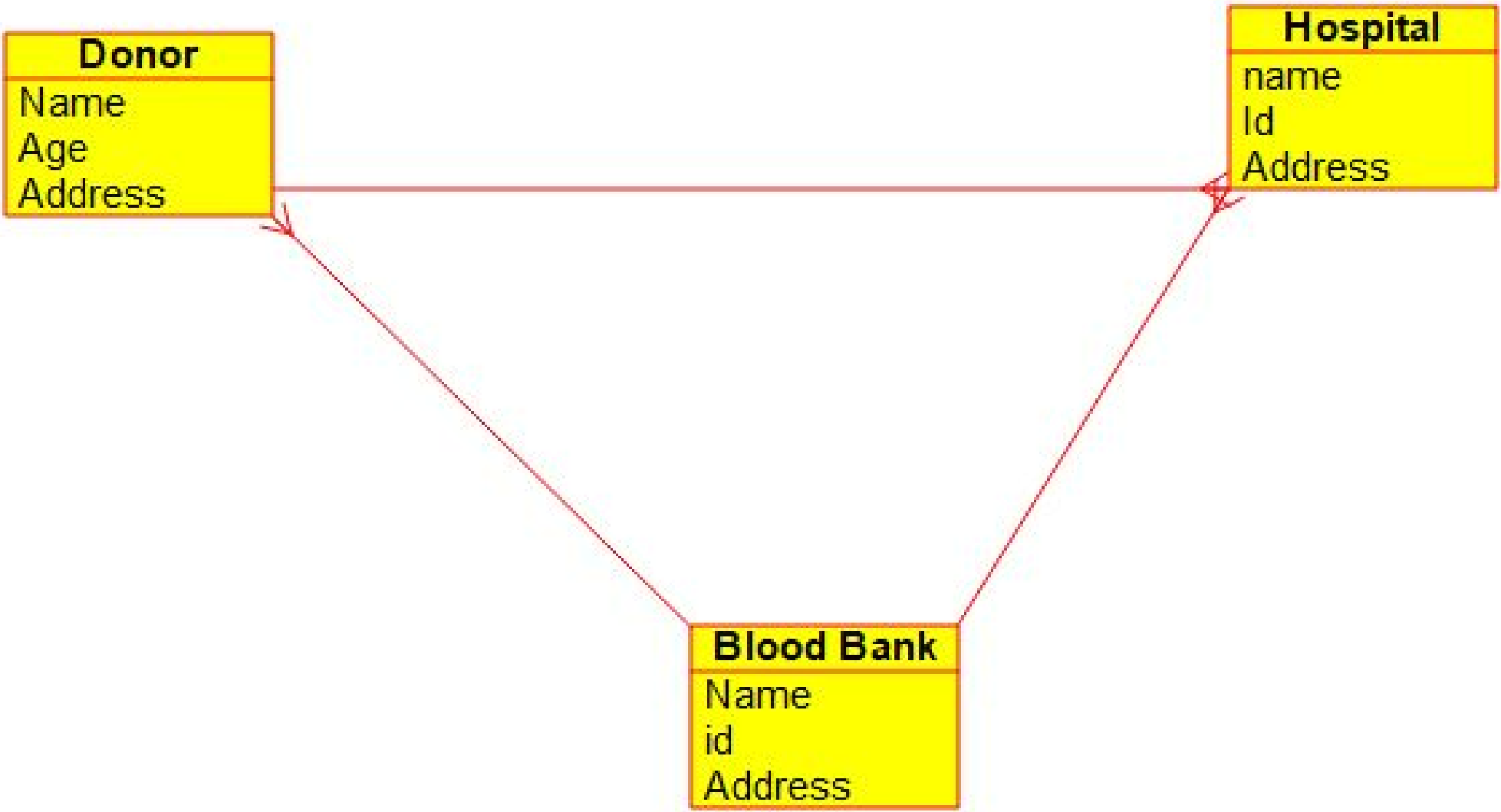bjavhavana

DEPLOYMENT DIAGRAM:

bhavana

COMMUNICATION DIAGRAM:

bhavana

ENTITY RELATIONSHIP DIAGRAM:

bahvhavana

RESULT: Thus the UML diagrams for Blood Bank Management system has been drawn successfully by using Umbrello Software.