

MES ABASAHEB GARWARE COLLEGE

CARVE ROAD , PUNE - 04

SOFTWARE ENGINEERING
PROJECT

TOPIC

*REQUIREMENT ANALYSIS
ORGAN DONATION MANAGEMENT
SYSTEM*

BY

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-:: Introduction ::-

Organ donation is the process when the person allows a part of an organ to be removed and transplanted to another person legally either with consent the donor, while alive or with the assent of the next of kin when the donor is dead.

Common transplantations include kidneys, heart, liver, pancreas, intestines, lungs, bone marrow, skin, and cornea.

-:: Problem Definition ::-

- ⦿ Awareness of organ donation is low.
- ⦿ No easy way to arrange for timely organ replacement leading to loss of life.
- ⦿ Manual capture and offline storage of donor's information needs a lot time and manpower.
- ⦿ Also leads to accuracy issue and makes it difficult to leverage donations in a timely manner.
- ⦿ Difficulty for needy recipients to reach out to potential donor community

-:: Scope of the system ::-

The organ donation management system is a web based system . It can be used within local as well as wide area network . The main scope of the system is that, in very short span it provides many facilities . It provides an elegant management of organs for transplantation, list and contact information of hospitals, Donors, receiver ,and other organ donation camps.

This system is used to store data over centralized server which consist of database where any type of information is not accessed by third party . The overall system is user friendly and all necessary help will be provided whatever is required by the user .

-:: Requirement Specification ::-

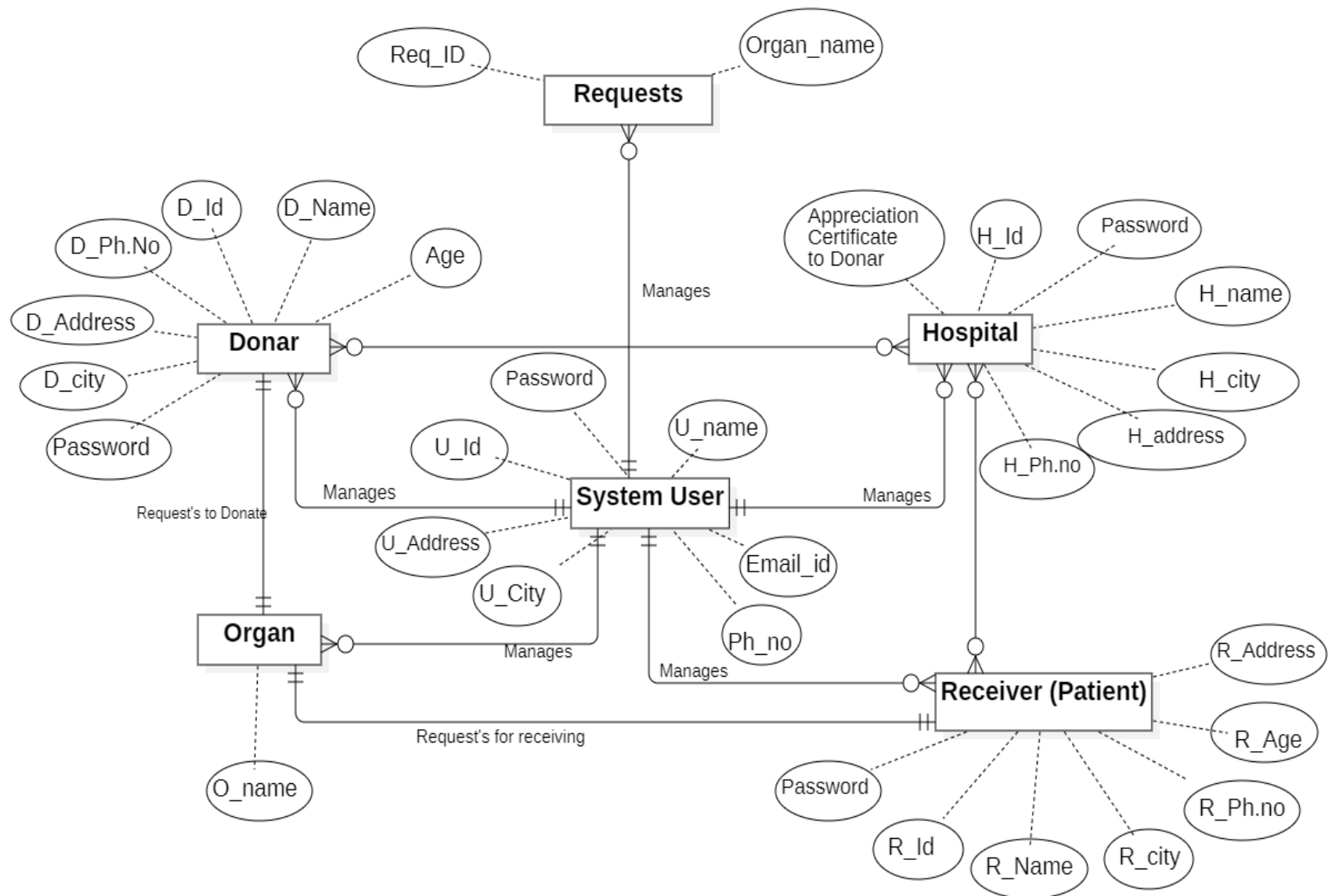
1} Functional Requirements :-

- ⦿ Admin's registration and Login.
- ⦿ Organ Donor's registration and Login.
- ⦿ Organ receiver's registration and Login.
- ⦿ Hospital's registration and Login
- ⦿ Request to Donate/Receive organ.
- ⦿ Modify information of Donor/Receiver.
- ⦿ Search Organ Donor/Receiver.
- ⦿ Manage Requests of Donor,Receiver,Hospitals.
- ⦿ Stock management of Organ donated by donor.
- ⦿ Contact information of Hospital for organ Transplantation.
- ⦿ Contact information of Other organ donation camps.

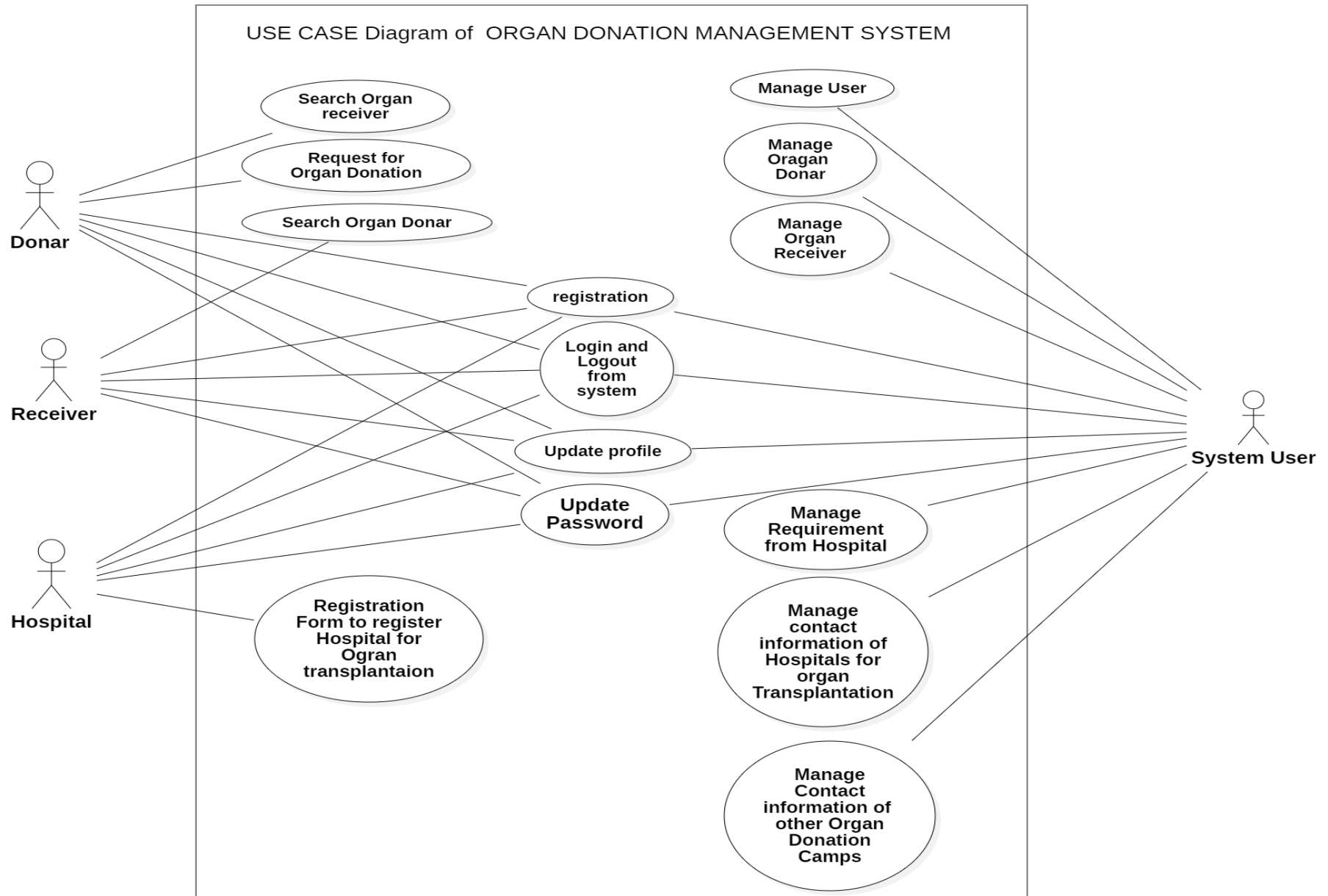
2}Non-functional Requirements :-

- ⦿ Security.
- ⦿ Maintainability.
- ⦿ Extensibility.
- ⦿ Performance of the system.

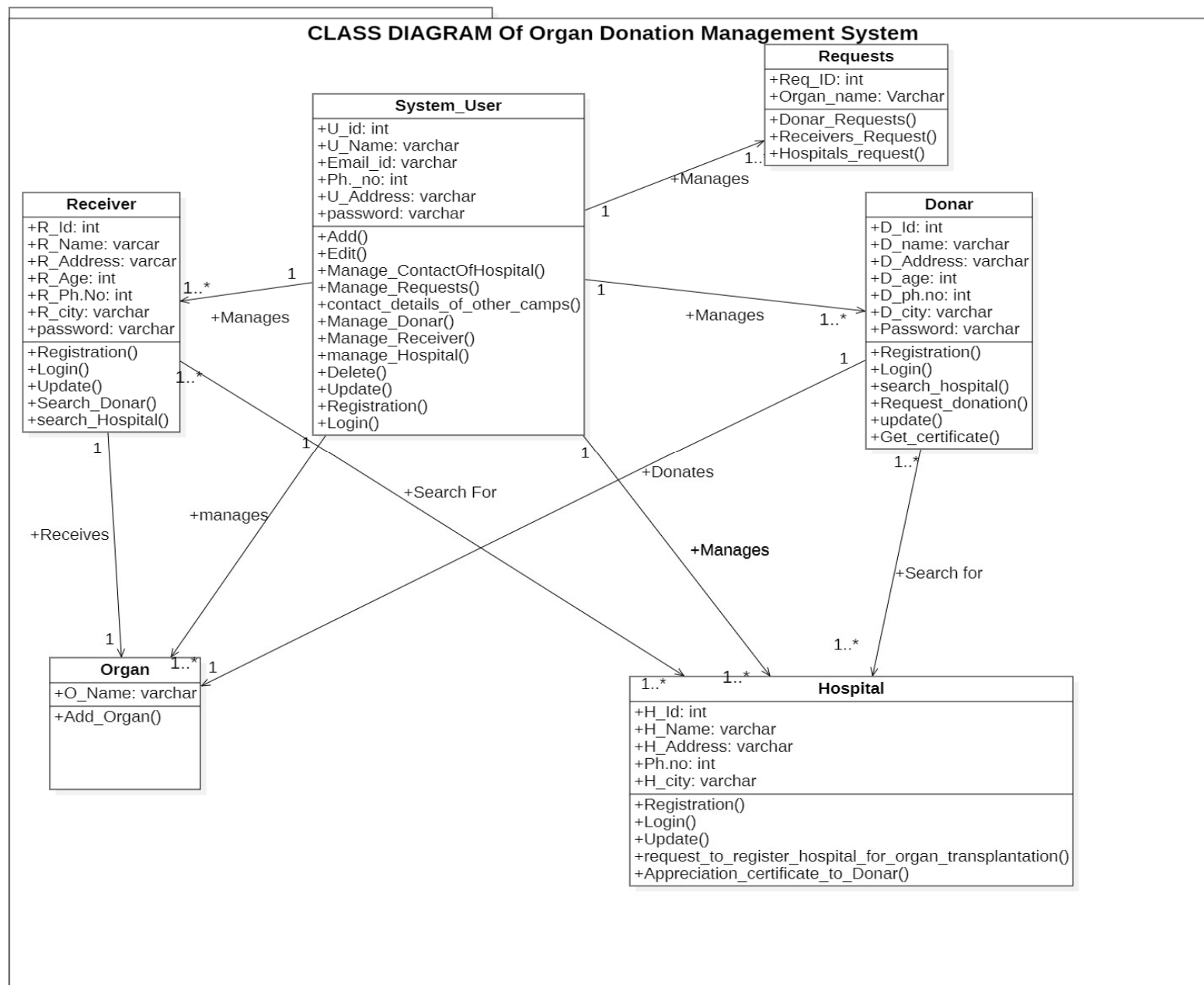
-:: ER-Diagram ::-



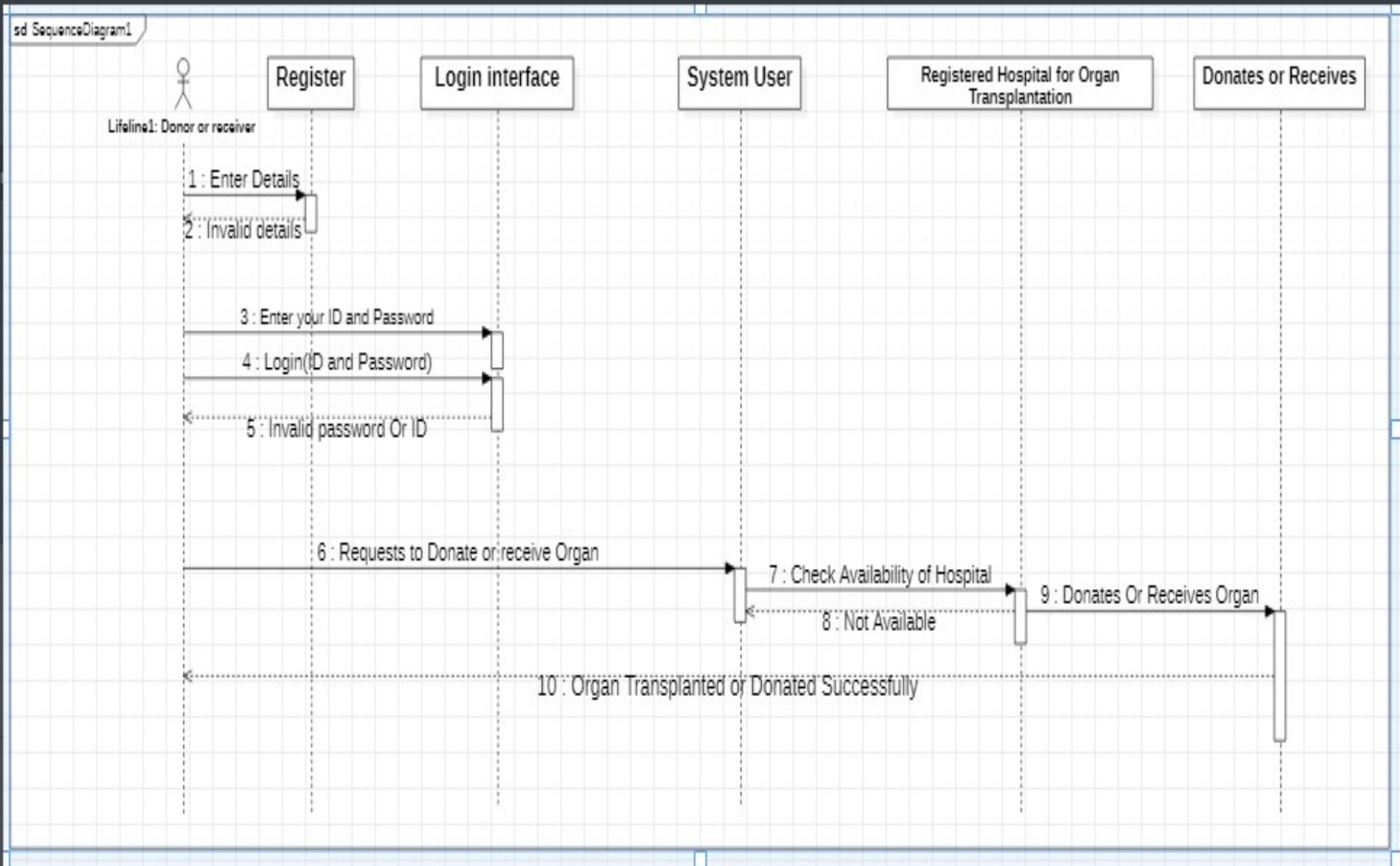
-:: Use case diagram ::-



-:: Class Diagram ::-

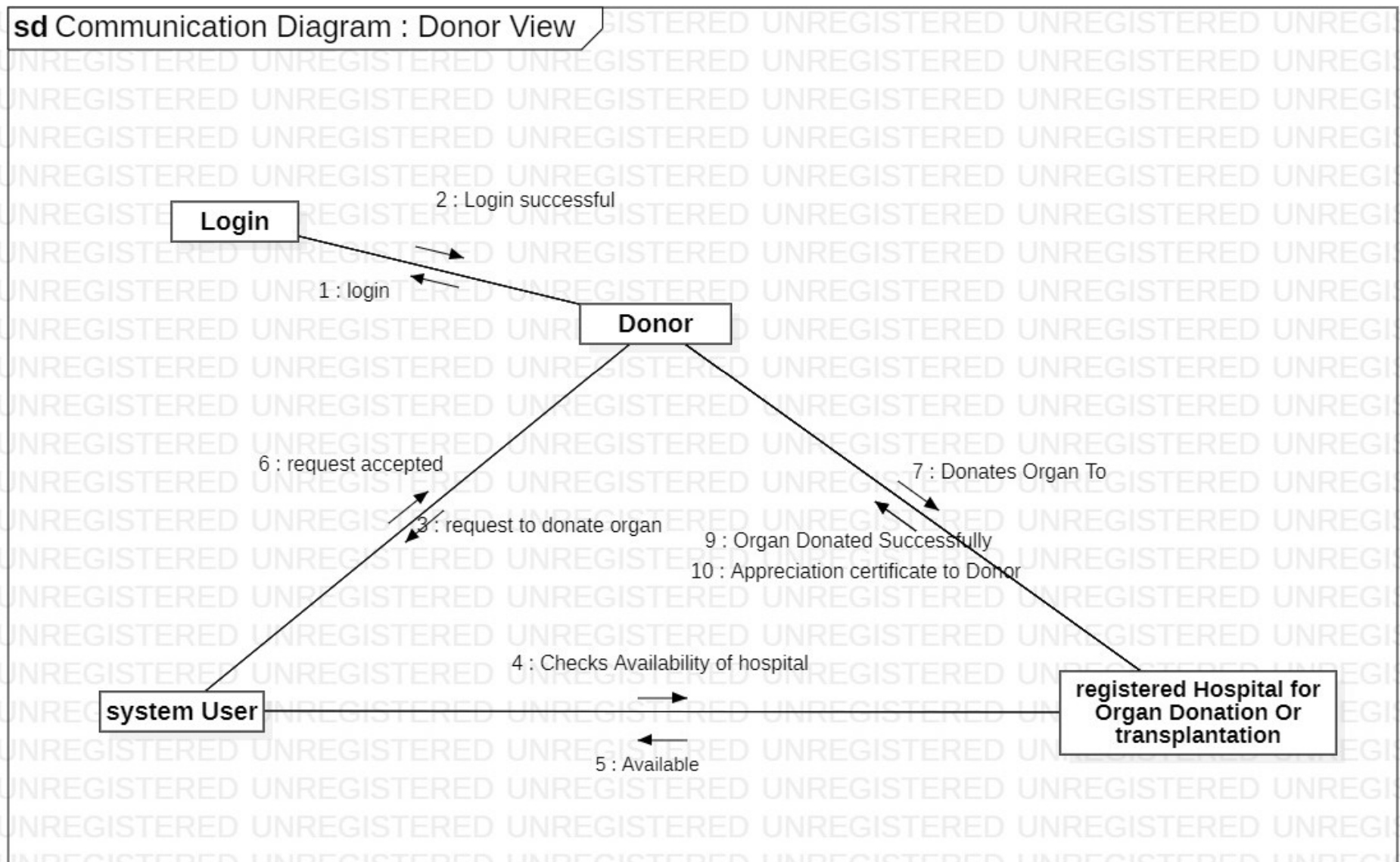


-:: Sequence Diagram ::-

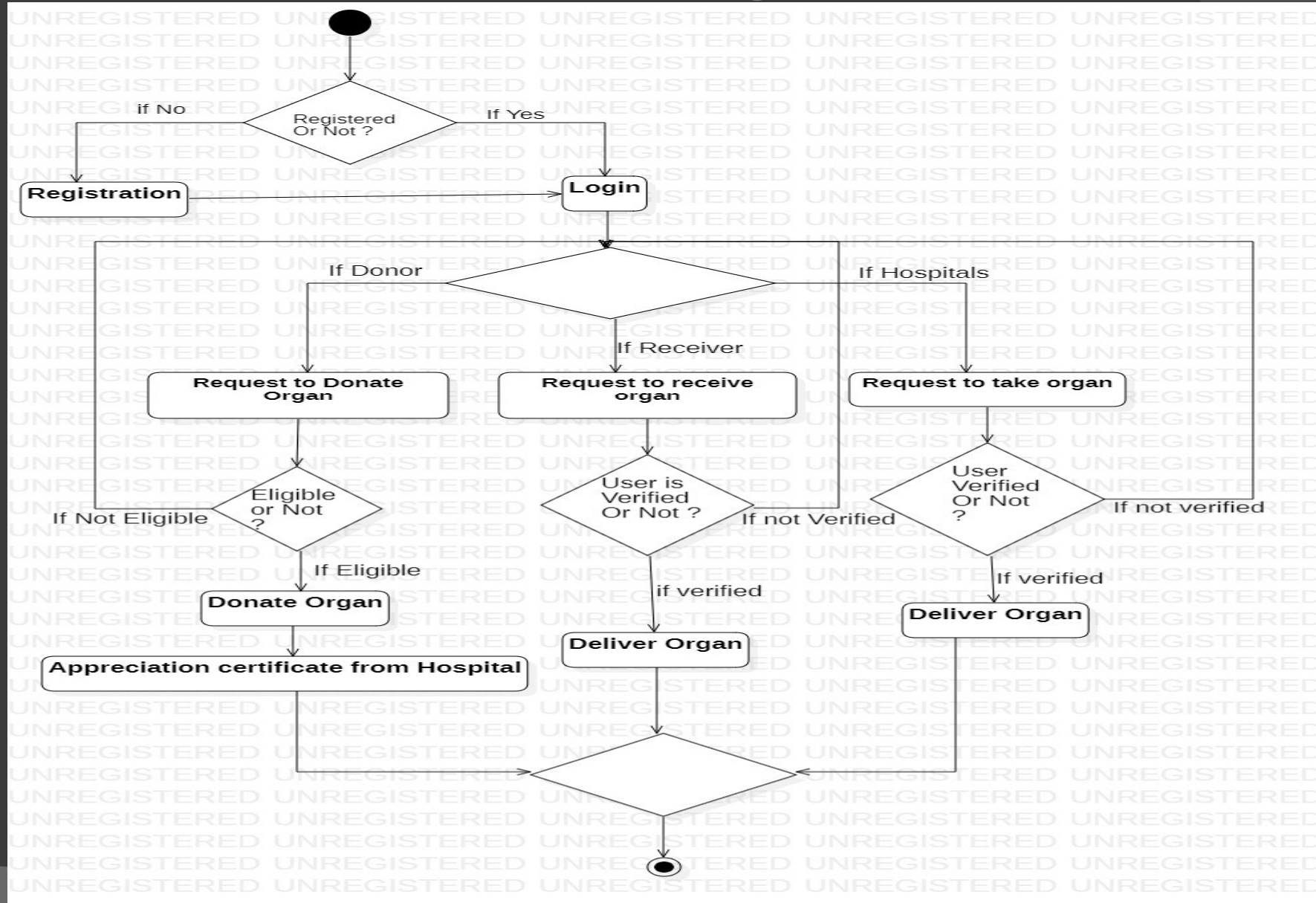


-:: Collaboration Diagram ::-

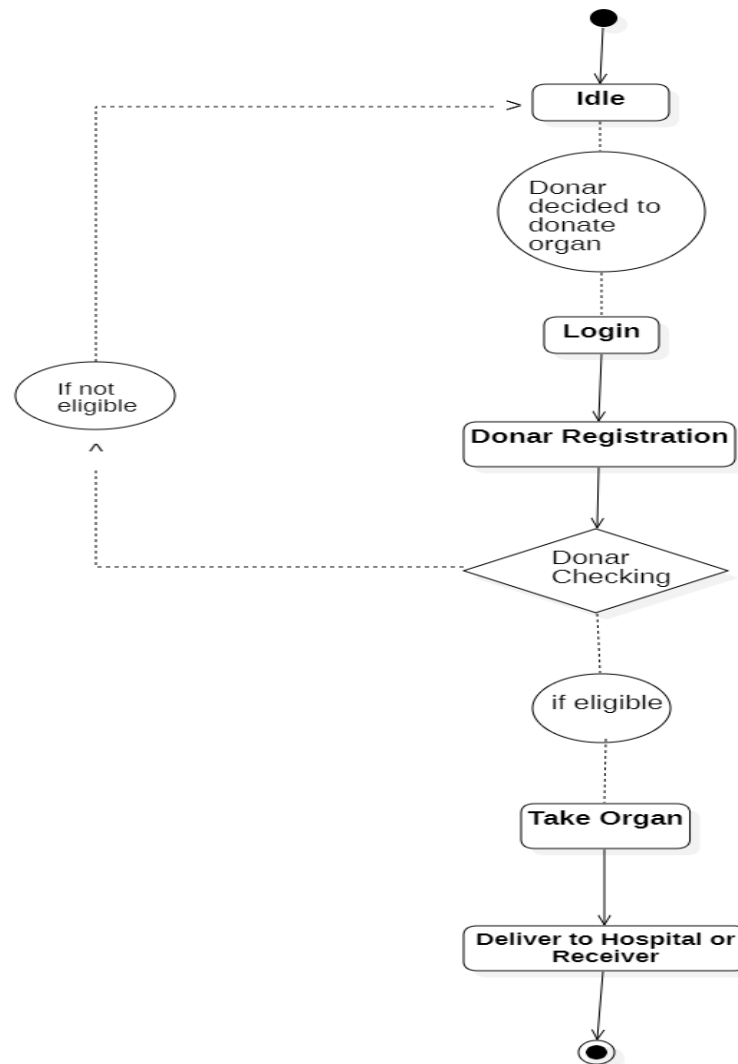
sd Communication Diagram : Donor View



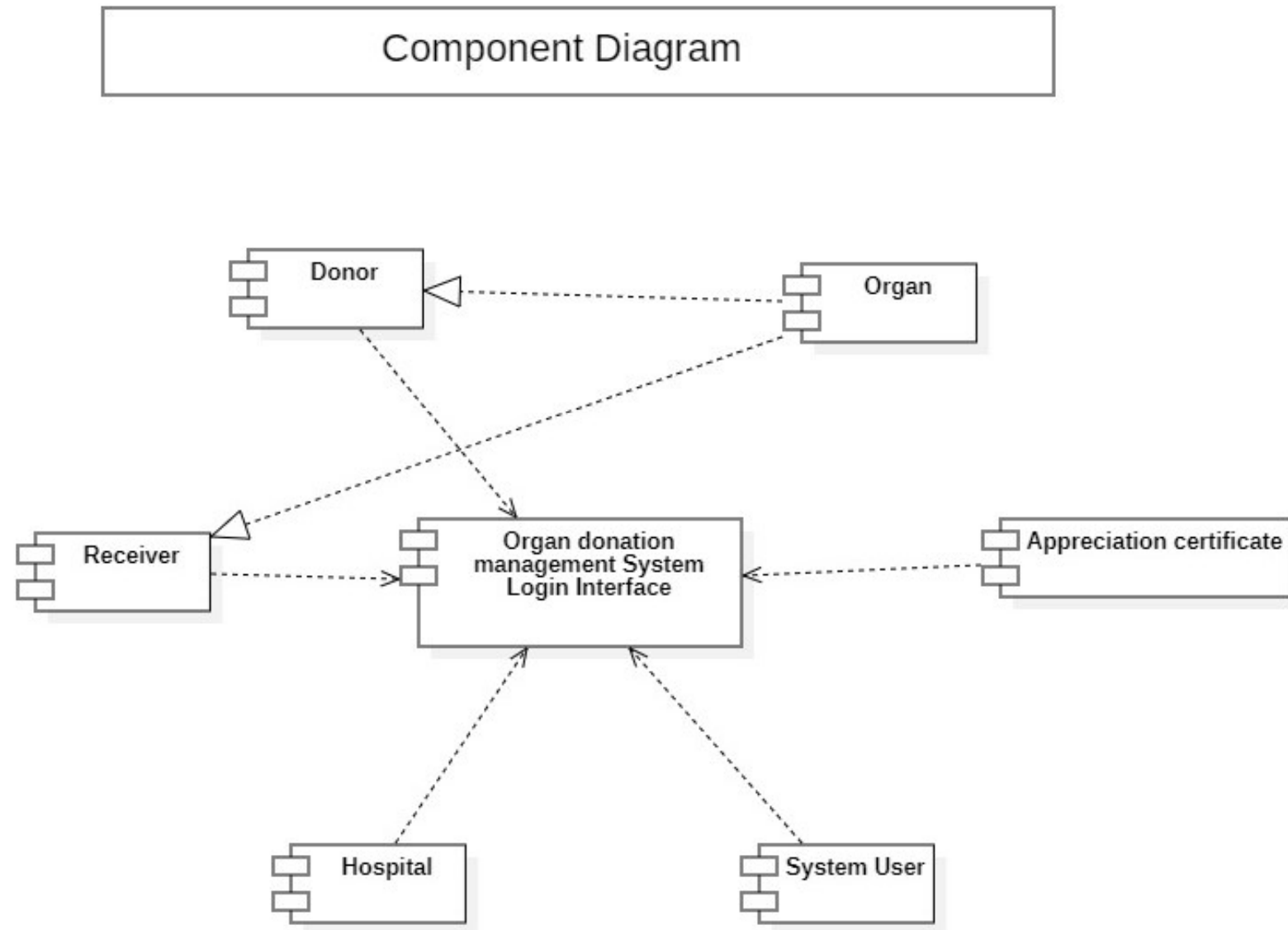
-:: Activity Diagram ::-



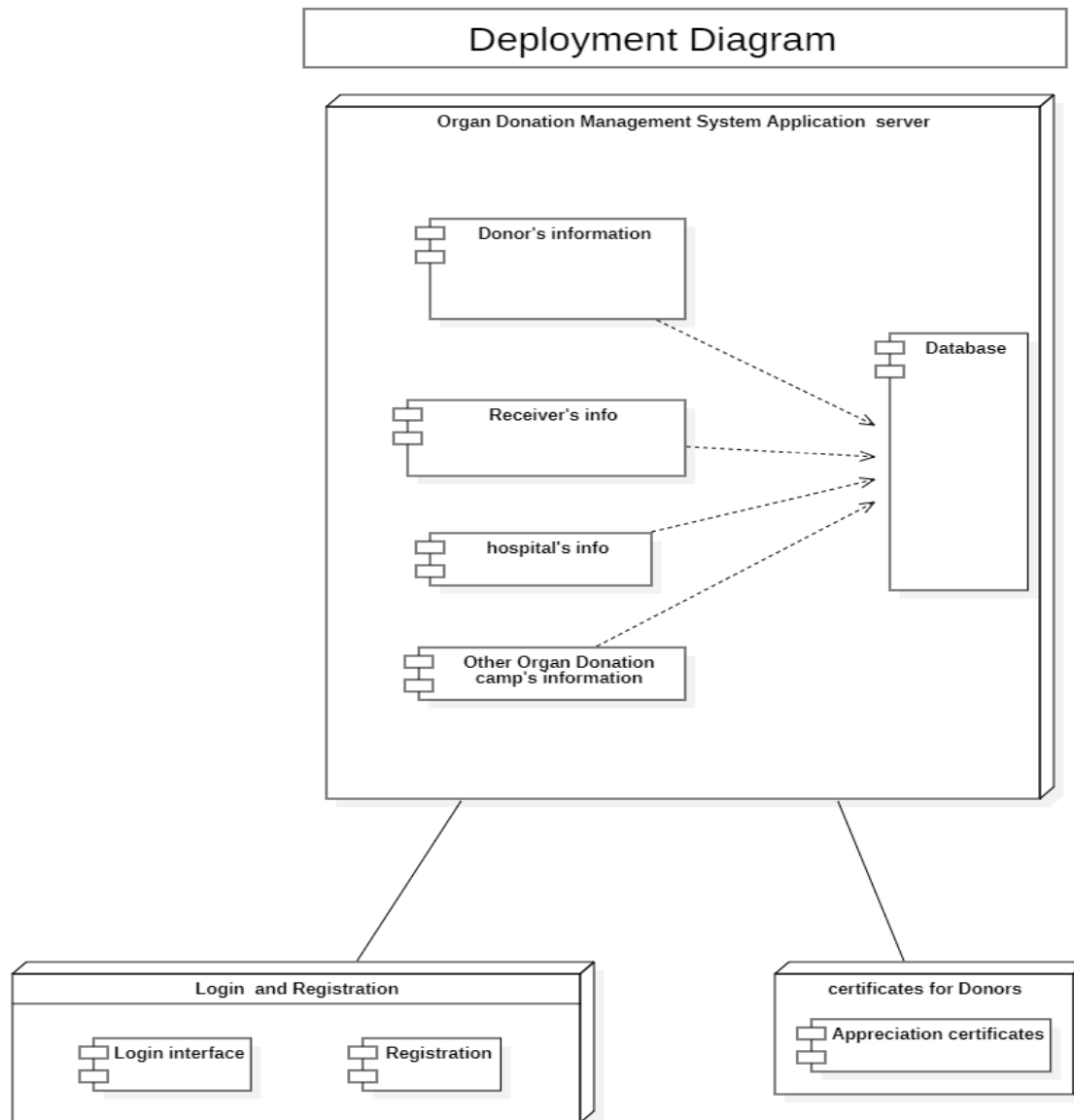
-:: State chart Diagram ::-



-:: Component Diagram ::-



-:: Deployment Diagram ::-



-:: Package Diagram ::-

