

BLOOD DONATION MANAGEMENT SYSTEM

UML DIAGRAMS

Project Guide: Sr. Italia Joseph Maria

SUBMITTED BY

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Usecases

- **Login**
- **Donate Blood**
- **Make a blood request**
- **View Request**

Use case 1: Login

Use Case ID: BDMS_01

Use Case Name: Login

Date created: 28-01-2020.

Actor(s): Blood Donor, Blood Seeker, Hospitals, Blood Bank.

Purpose: For user login.

Pre-Conditions: User selected the registration form to fill

Post Conditions: Information is valid Saved in database

Main Flow:

- User enter their details
- User clicks on “Register now”
- Redirect to login page

Alternative Flow:

- If user enter inconsistent data display the message “Please enter your correct information”.

Use Case 2: Donate Blood

Use Case ID:BDMS_02

Use Case Name: Donate Blood

Date created: 03-02-2020.

Actor(s): Donor

Purpose: For updating the blood bank stock.

Pre- Conditions: The Donor should login to system.

Post Conditions: The Donated blood amount should be added to the database.

Main Flow:

- Donor selects the group of blood.
- Donor enters unit of blood they want to donate.
- Donated blood should be updated in database.

Alternative Flow:

- If Donor enters invalid details system should display “Invalid credentials”.

Use case 3: Make a blood request

Use Case ID: BDMS_03

Use Case Name: Make Request.

Date created:25-02-2020.

Actor(s): User

Purpose: Make Request for required blood.

Pre -Conditions: The user should login to system.

Post Conditions: Request should reach admin.

Main Flow:

- User selects the blood group.
- User enter the amount of blood they needed.
- User clicks on “Request blood”.

Use Case 4: View Requests

Use Case ID: BDMS_04

Use Case Name: View Requests

Date created: 03-03-2020

Actor(s): admin

Purpose: For View the Blood Requests.

Pre -Conditions: admin should login to system.

Post Conditions: All blood request are displayed.

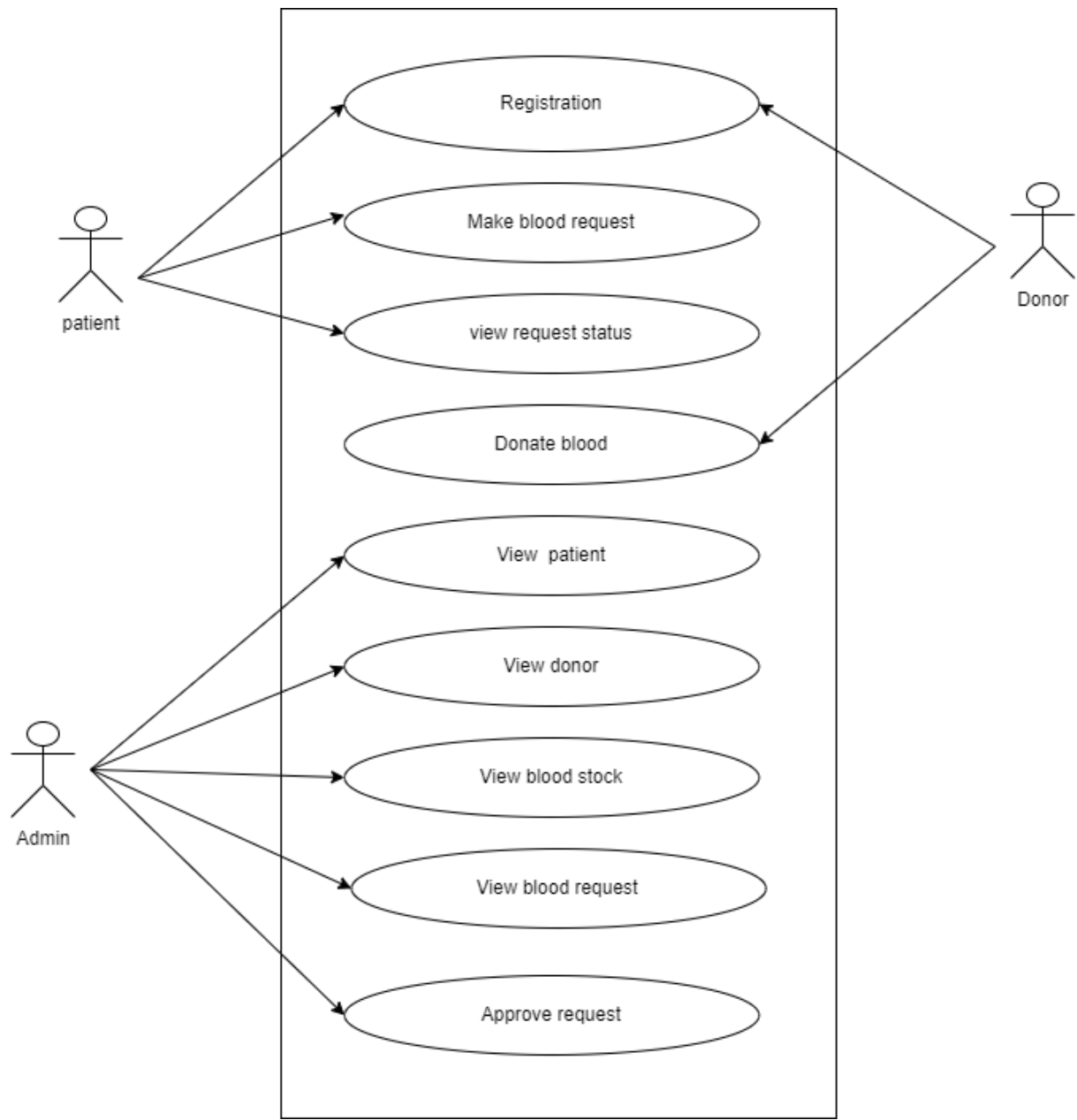
Main Flow:

- Admin click on “view requests”.
- All request should be displayed.
- Admin can either approve or reject request.

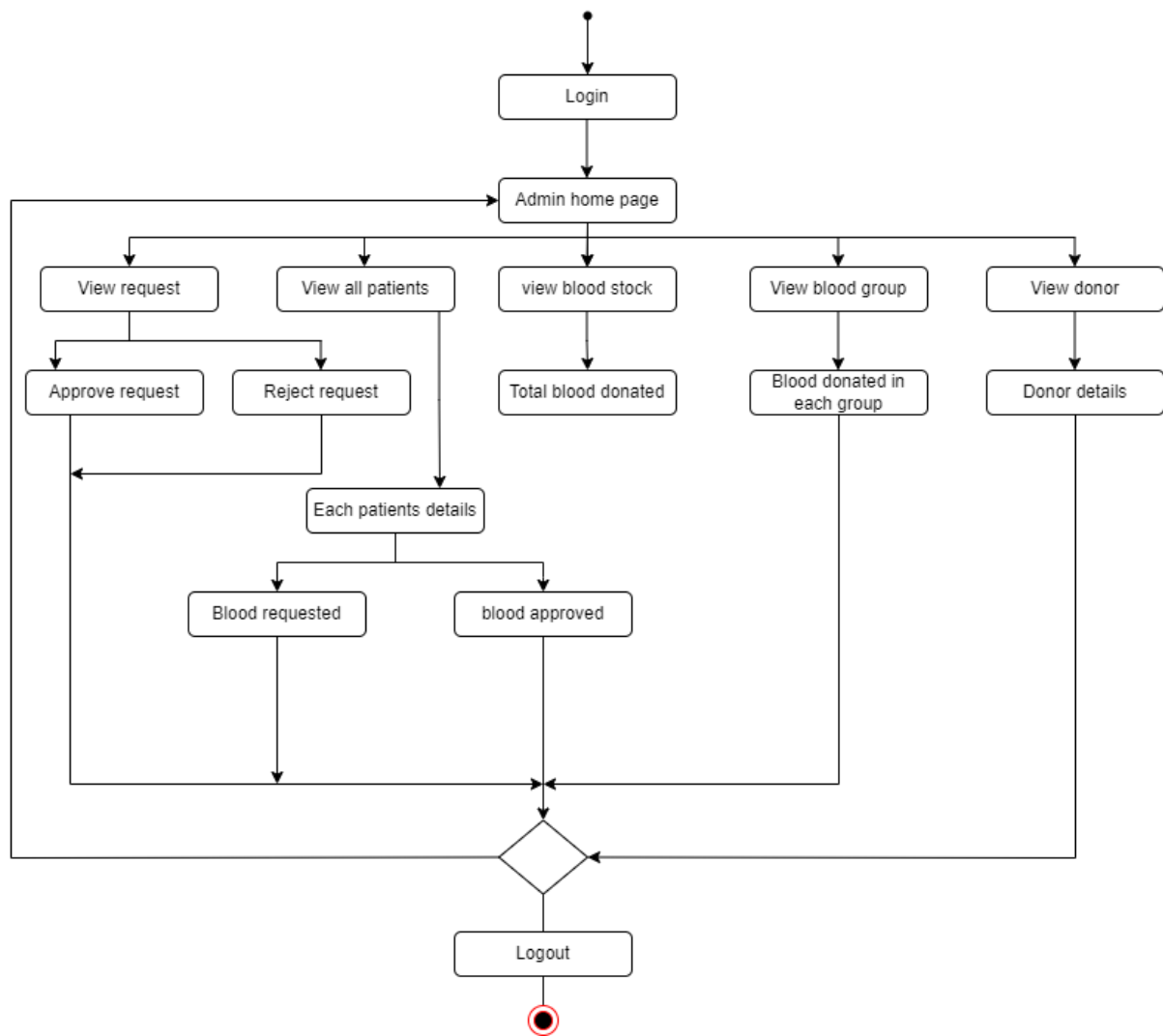
Alternative Flow:

- If no request were made then system should display “No request found”.

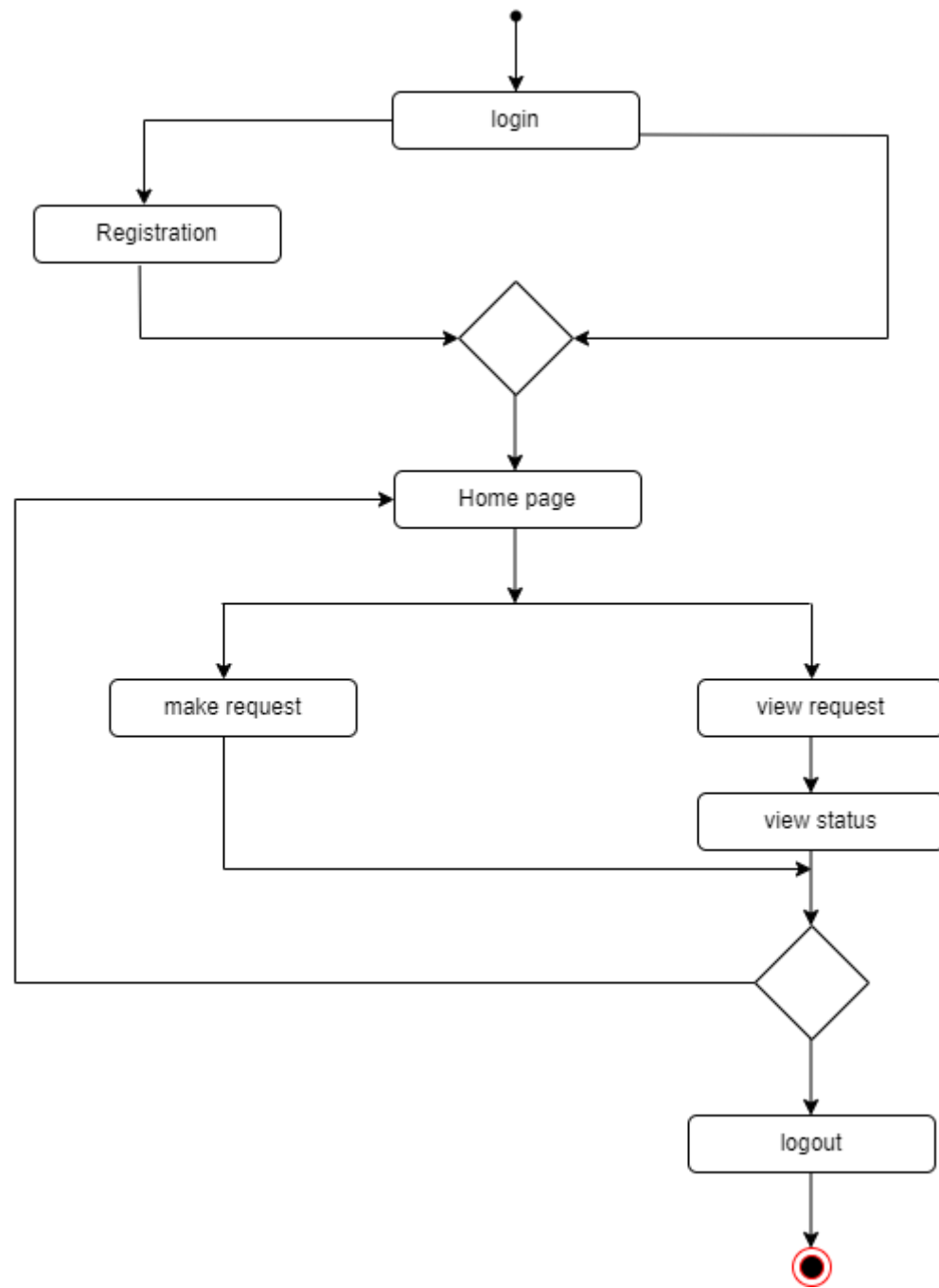
USECASE DIAGRAM



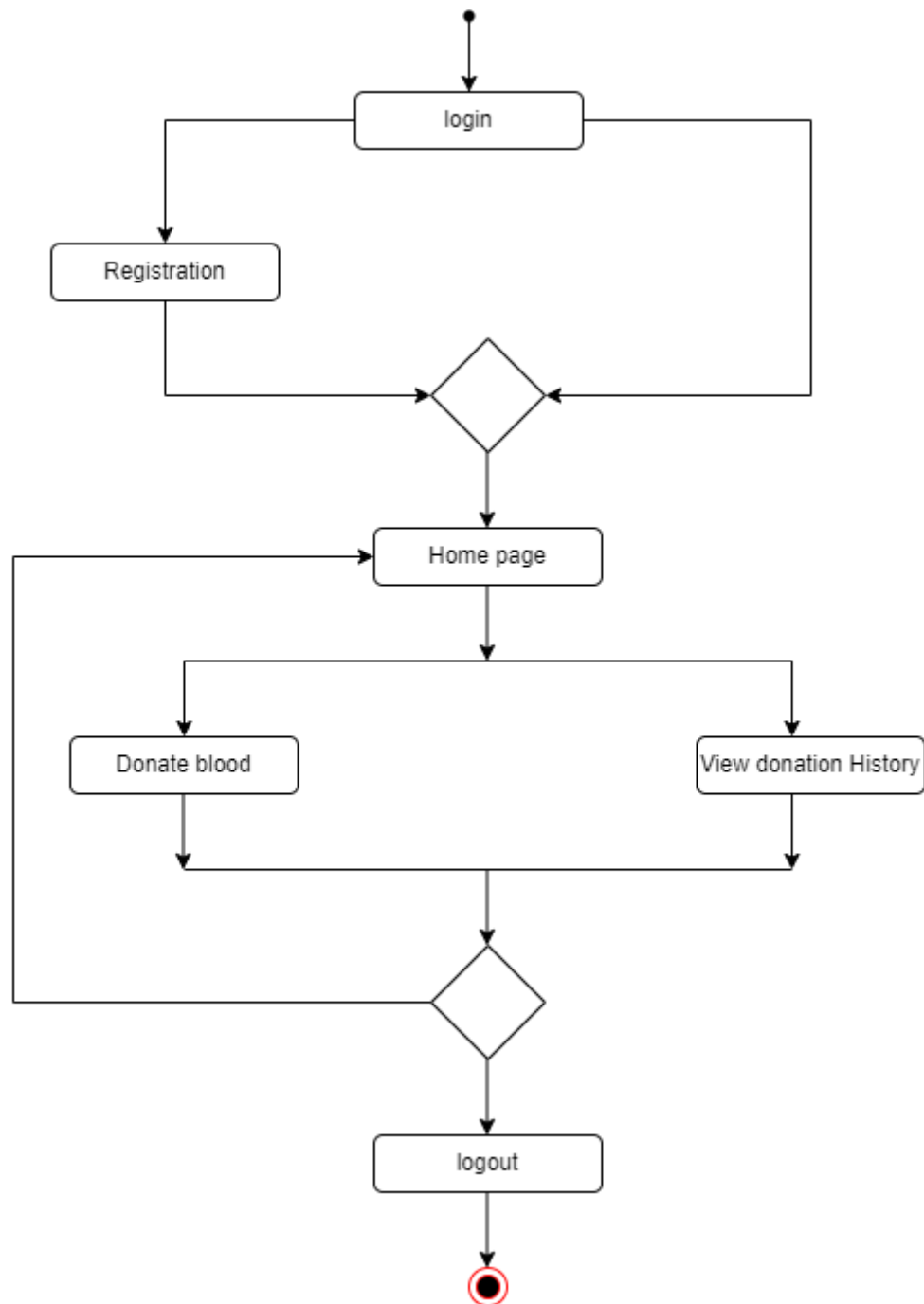
ACTIVITY DIAGRAM OF ADMIN



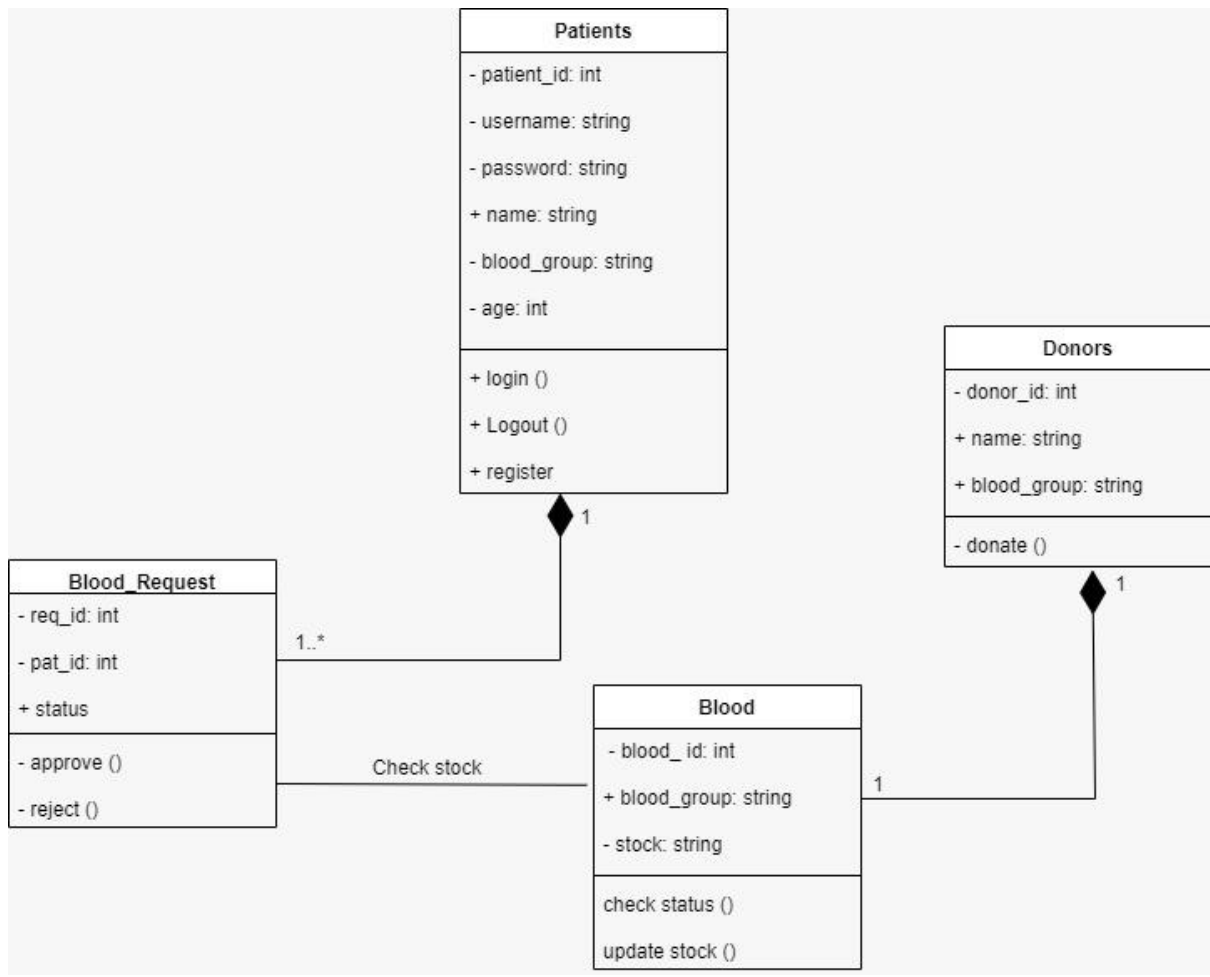
ACTIVITY DIAGRAM OF PATIENT



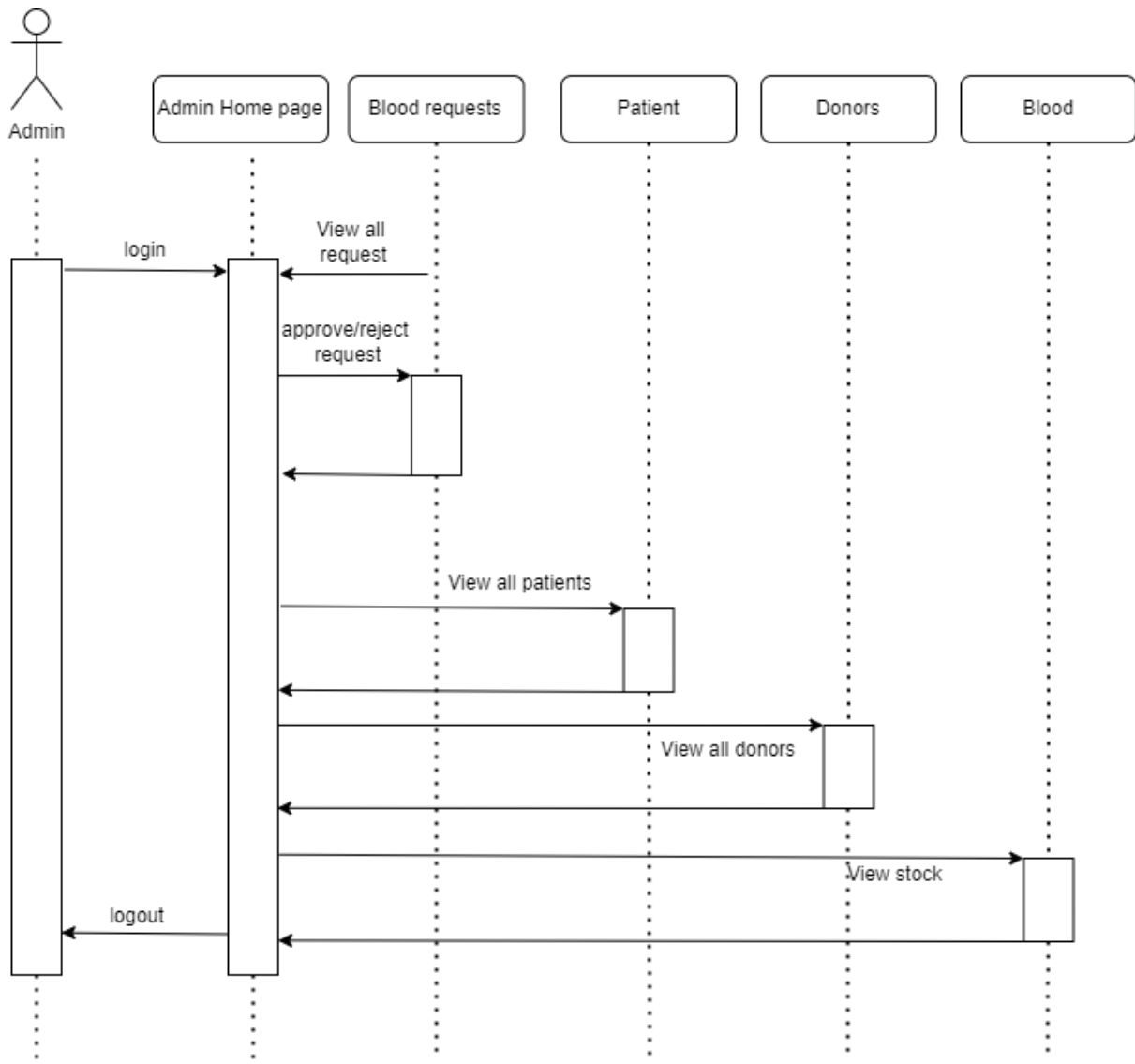
ACTIVITY DIAGRAM OF DONOR



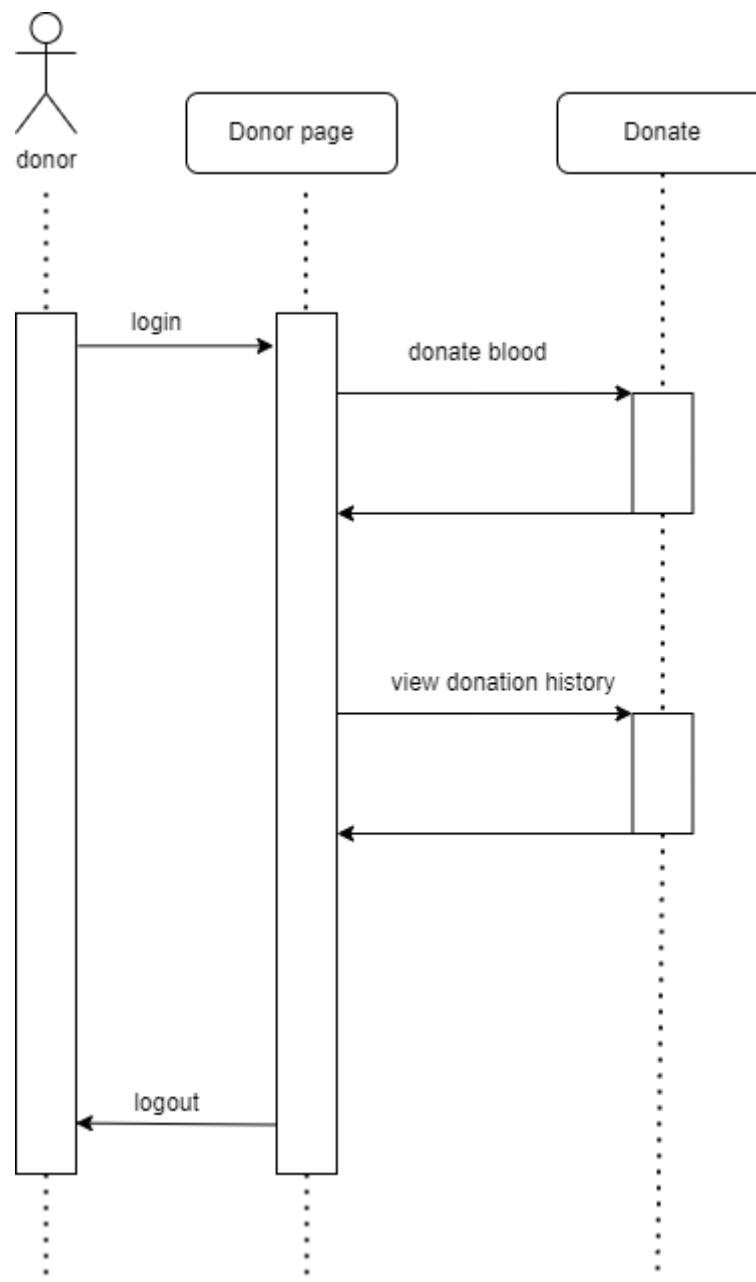
CLASS DIAGRAM



SEQUENCE DIAGRAM OF ADMIN



SEQUENCE DIAGRAM OF DONOR



SEQUENCE DIAGRAM OF PATIENT

