

EX NO:1	Write the complete problem statement
DATE	

AIM:

To prepare PROBLEM STATEMENT for any project.

ALGORITHM:

1. The problem statement is the initial starting point for a project.
2. A problem statement describes what needs to be done without describing how.
3. It is basically a one-to-three-page statement that everyone on the project agrees with that describes what will be done at a high level.
4. The problem statement is intended for a broad audience and should be written in non-technical terms.
5. It helps the non-technical and technical personnel communicate by providing a description of a problem.
6. It doesn't describe the solution to the problem.

INPUT:

1. The input to requirement engineering is the problem statement prepared by customer.
2. It may give an overview of the existing system along with broad expectations from the new system.
3. The first phase of requirements engineering begins with requirements elicitation i.e. gathering of information about requirements.
4. Here, requirements are identified with the help of customer and existing system processes.

Problem:

Blood banks play a critical role in healthcare by ensuring the availability of blood for emergencies, surgeries, and regular medical needs. However, many blood banks face challenges in managing patient registrations, inventory, hospital requests, and appointments, often due to reliance on outdated or manual systems. This can lead to inefficient management, delayed blood provision, and, in some cases, unfulfilled hospital needs. To address these issues, a centralized Blood Bank Management System is needed to streamline operations and ensure timely access to blood supplies for hospitals and patients.

Background:

The demand for blood has been steadily increasing, but blood banks are often hindered by inefficient management processes. Many blood banks still use manual methods for tracking donations, requests, and inventory, resulting in delays, errors, and limited visibility into real-time inventory levels. A centralized system could address these limitations by integrating all essential functionalities such as patient registration, appointment booking, hospital request management, inventory control, and reporting, enabling efficient operations and reducing the risk of critical shortages.

Relevance:

An efficient Blood Bank Management System is crucial for saving lives. By improving the management of blood donations and supplies, this system can ensure that blood is readily available when and where it is needed. Such a system benefits patients, hospitals, and blood banks by reducing wait times, preventing stockouts, and providing accurate data for decision-making. Additionally, automated and streamlined processes enhance the operational efficiency of blood banks, allowing them to serve more effectively.

Objectives:

The primary objective of this project is to develop a centralized Blood Bank Management System that enhances operational efficiency, reduces errors, and ensures a steady supply of blood to meet patient and hospital needs. Specific objectives include:

1. **Patient Registration:** Enable efficient registration of new patients, capturing their details and medical history.
2. **Appointment Booking:** Allow patients to book appointments for blood donation or transfusion with ease.
3. **Hospital Blood Requests:** Facilitate hospitals in requesting specific blood types and quantities based on real-time inventory levels.
4. **Approval and Management of Requests:** Provide blood bank administrators the tools to review and approve requests from hospitals, ensuring alignment with available inventory.
5. **Inventory Management:** Implement real-time tracking of blood stock levels, including donor blood types, and manage the storage and expiration of blood units.
6. **Report Generation:** Generate comprehensive reports on blood inventory, donation appointments, and request fulfillments, aiding in compliance and resource planning.

Result:

EX NO:2	Write the software requirement specification document
DATE	

AIM:

To do requirement analysis and develop Software Requirement Specification Sheet(SRS) for any Project.

ALGORITHM:

SRS shall address are the following:

- a) **Functionality.** What is the software supposed to do?
- b) **External interfaces.** How does the software interact with people, the system's hardware, other hardware, and other software?
- c) **Performance.** What is the speed, availability, response time, recovery time of various software functions, etc.?
- d) **Attributes.** What is the portability, correctness, maintainability, security, etc. considerations?
- e) **Design constraints imposed on an implementation.** Are there any required standards in effect, implementation language, policies for database integrity, resource limits, operating environment(s) etc.?

1. Introduction**1.1 Purpose**

This document describes the requirements for developing a Blood Bank Management System (BBMS). The goal of this system is to streamline blood bank operations like patient registration, appointment booking, blood requests, inventory management, and reporting. By implementing BBMS, blood banks will be able to efficiently manage blood supplies, reduce manual errors, and provide faster services to patients and hospitals.

1.2 Scope

The BBMS will be a web-based application accessible by blood bank administrators, hospital staff, and blood donors. This system will handle all core functions, such as tracking blood inventory, managing requests, scheduling appointments, and generating reports, to keep the blood bank running smoothly and to ensure blood is available when needed.

1.3 Definitions, Acronyms, and Abbreviations

- **BBMS:** Blood Bank Management System
- **Admin:** Blood Bank Administrator
- **Donor:** Individual donating blood
- **Patient:** Individual who needs a blood transfusion
- **Hospital Staff:** Authorized personnel from hospitals who request blood

1.4 Overview

This document details the required functionalities, interfaces, and performance standards for BBMS. It's a roadmap for the development team and a reference for users to understand what the system will offer.

2. Overall Description

2.1 Product Perspective

BBMS is a centralized solution that brings together the most essential blood bank operations in one place. It will integrate with existing databases and be accessible online, making it easier for users to perform their roles without delays or mix-ups.

2.2 Product Functions

- **Patient Registration:** Register and manage patient profiles.
- **Appointment Booking:** Schedule donation and transfusion appointments.
- **Blood Requests:** Let hospitals request specific blood types.
- **Approval and Inventory Management:** Admins can approve blood requests and manage blood stock.
- **Report Generation:** Generate reports on blood inventory, donations, and usage.

2.3 User Classes and Characteristics

- **Admin:** Manages the overall blood bank operations, approves blood requests, and tracks inventory.
- **Hospital Staff:** Submit and track blood requests for their patients.
- **Donor:** Register, view, and book appointments for blood donation.
- **Patient:** Individuals who need blood transfusions, registered and managed by the system.

2.4 Operating Environment

The system will be accessible via a web browser and compatible with major desktop and mobile devices.

2.5 Design and Implementation Constraints

- The system must ensure privacy and security for patient data.
- It should be able to handle multiple users at once.

2.6 Assumptions and Dependencies

- Users will have internet access to log in.
- The system will need a database for storing all records and data.

3. Specific Requirements

3.1 Functional Requirements

3.1.1 Patient Registration Module

- The system allows patients to register with personal and medical information.
- The system validates information to ensure accuracy.
- Admins can view and update patient information if needed.

3.1.2 Appointment Booking Module

- Patients and donors can book, reschedule, or cancel appointments.
- Available slots for donations and transfusions are displayed.
- Users receive reminders for upcoming appointments via email or SMS.

3.1.3 Hospital Blood Request Module

- Hospital staff can request specific blood types and quantities.
- The system provides updates on the status of blood requests.
- Admins are notified of new requests as they come in.

3.1.4 Admin Approval and Inventory Management Module

- Admins can review and approve or deny requests based on stock availability.
- Admins manage blood inventory by adding, updating, or removing units as needed.
- The system alerts admins if blood units are close to expiry.

3.1.5 Report Generation Module

- The system generates reports on inventory, donation history, and request status.
- Users can download reports in PDF and Excel formats.
- Reports can be filtered by date, blood type, and request status.

3.2 Non-Functional Requirements

3.2.1 Performance Requirements

- The system should handle up to 1,000 users at once without slowing down.
- Response time should be under 2 seconds for all actions.

3.2.2 Security Requirements

- Users must log in to access the system.
- Sensitive data, like patient information, should be encrypted.
- Only authorized users should have access to certain functions based on their roles.

3.2.3 Usability Requirements

- The interface should be simple and easy to navigate.
- The system should be usable on both desktop and mobile devices.

3.2.4 Reliability Requirements

- The system should be operational 99.9% of the time.
- Any issues should be resolved within 5 minutes.

4. External Interface Requirements

4.1 User Interfaces

- The system will be responsive, adapting to different screen sizes for a smooth user experience.
- Each user type (admin, hospital staff, donor) will have access to functions relevant to their role.

4.2 Hardware Interfaces

- Compatible with standard desktop and mobile devices.

4.3 Software Interfaces

- The system will use an SQL database for secure data storage.
- The system will support SMS and email services for reminders and notifications.

5. Additional Requirements

5.1 Data Privacy and Compliance

All data, especially patient information, will be handled securely and in compliance with relevant data protection regulations.

5.2 Documentation

Clear user manuals and system documentation will be available for users and technical staff.

Result:

EX NO:3	Draw the entity relationship diagram
DATE	

AIM:

To Draw the Entity Relationship Diagram for any project.

ALGORITHM:

Step 1: Mapping of Regular Entity Types

Step 2: Mapping of Weak Entity Types

Step 3: Mapping of Binary 1:1 Relation Types

Step 4: Mapping of Binary 1:N Relationship Types.

Step 5: Mapping of Binary M:N Relationship Types.

Step 6: Mapping of Multivalued attributes.

INPUT:

Entities

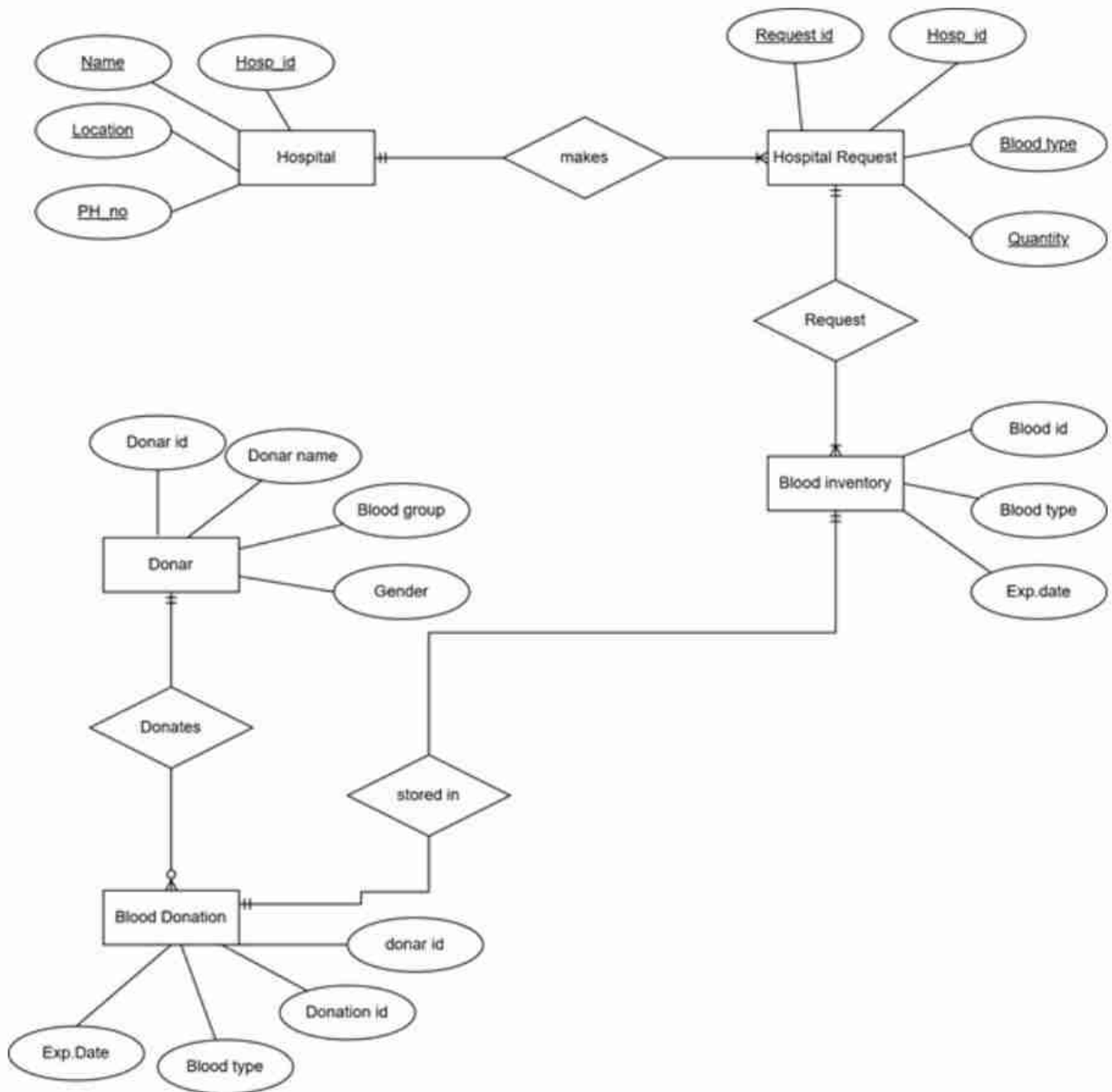
Entity Relationship Matrix

Primary Keys

Attributes

Mapping of Attributes with Entities

Result:



EX NO:4	Draw the data flow diagrams at level 0 and level 1
DATE	

AIM:

To Draw the Data Flow Diagram for any project and List the Modules in the Application.

ALGORITHM:

1. Open the Visual Paradigm to draw DFD (Ex.Lucidchart)
2. Select a data flow diagram template
3. Name the data flow diagram
4. Add an external entity that starts the process
5. Add a Process to the DFD
6. Add a data store to the diagram
7. Continue to add items to the DFD
8. Add data flow to the DFD
9. Name the data flow
10. Customize the DFD with colours and fonts
11. Add a title and share your data flow diagram

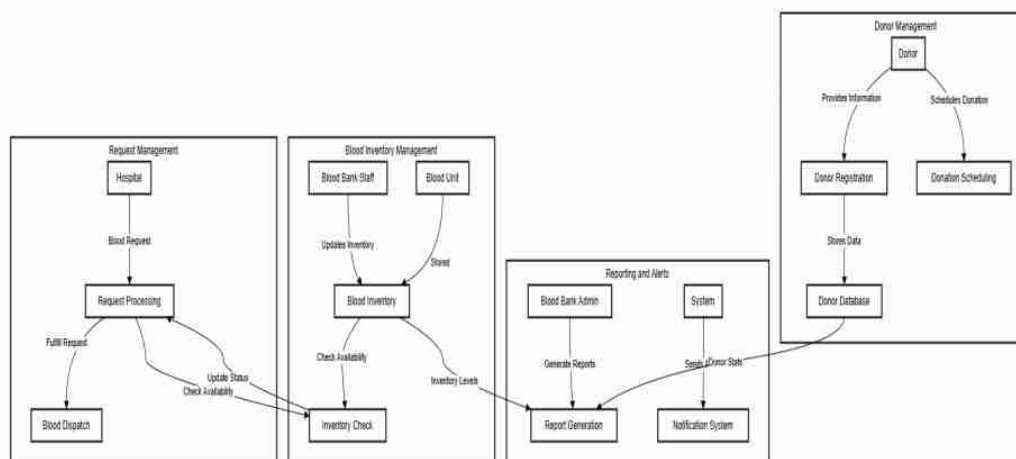
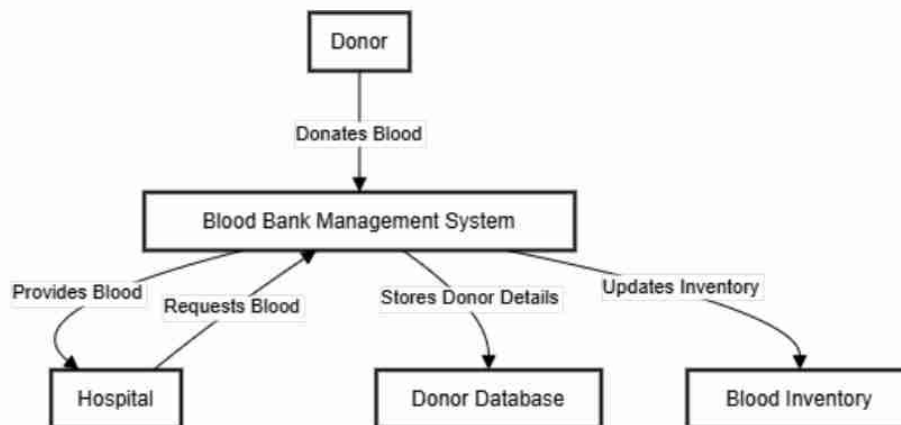
INPUT:

Processes

Datastores

External Entities

Result:



EX NO:5	Draw use case diagram
DATE	

AIM:

To Draw the Use Case Diagram for any project

ALGORITHM:

Step 1: Identify Actors

Step 2: Identify Use Cases

Step 3: Connect Actors and Use Cases

Step 4: Add System Boundary

Step 5: Define Relationships

Step 6: Review and Refine

Step 7: Validate

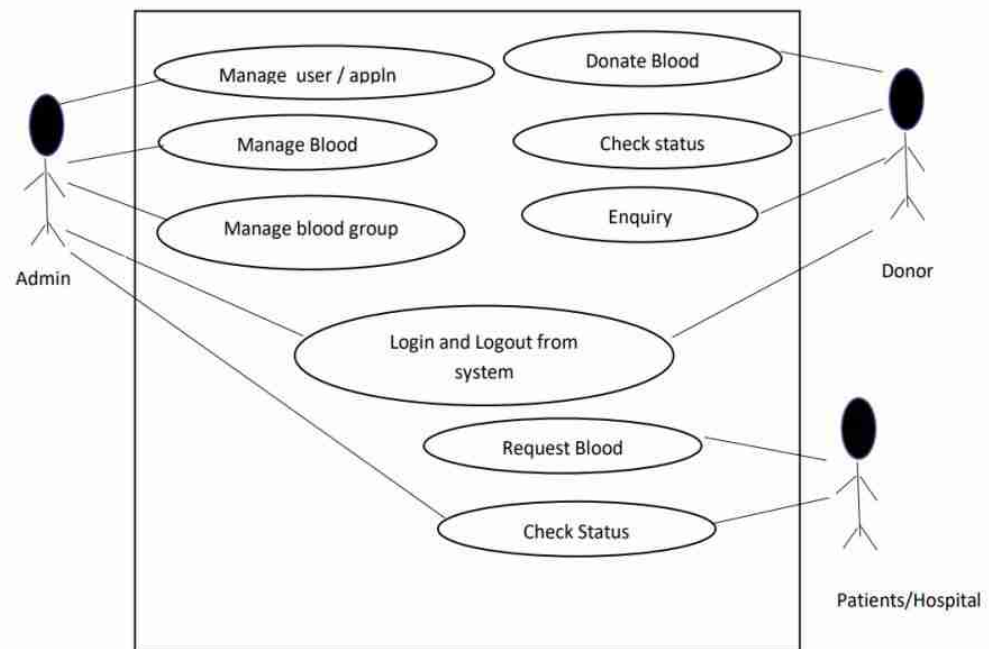
INPUTS:

Actors

Use Cases

Relations

Result:



EX NO:6	Draw activity diagram of all use cases.
DATE	

AIM:

To Draw the activity Diagram for any project

ALGORITHM:

Step 1: Identify the Initial State and Final States

Step 2: Identify the Intermediate Activities Needed

Step 3: Identify the Conditions or Constraints

Step 4: Draw the Diagram with Appropriate Notations

INPUTS:

Activities

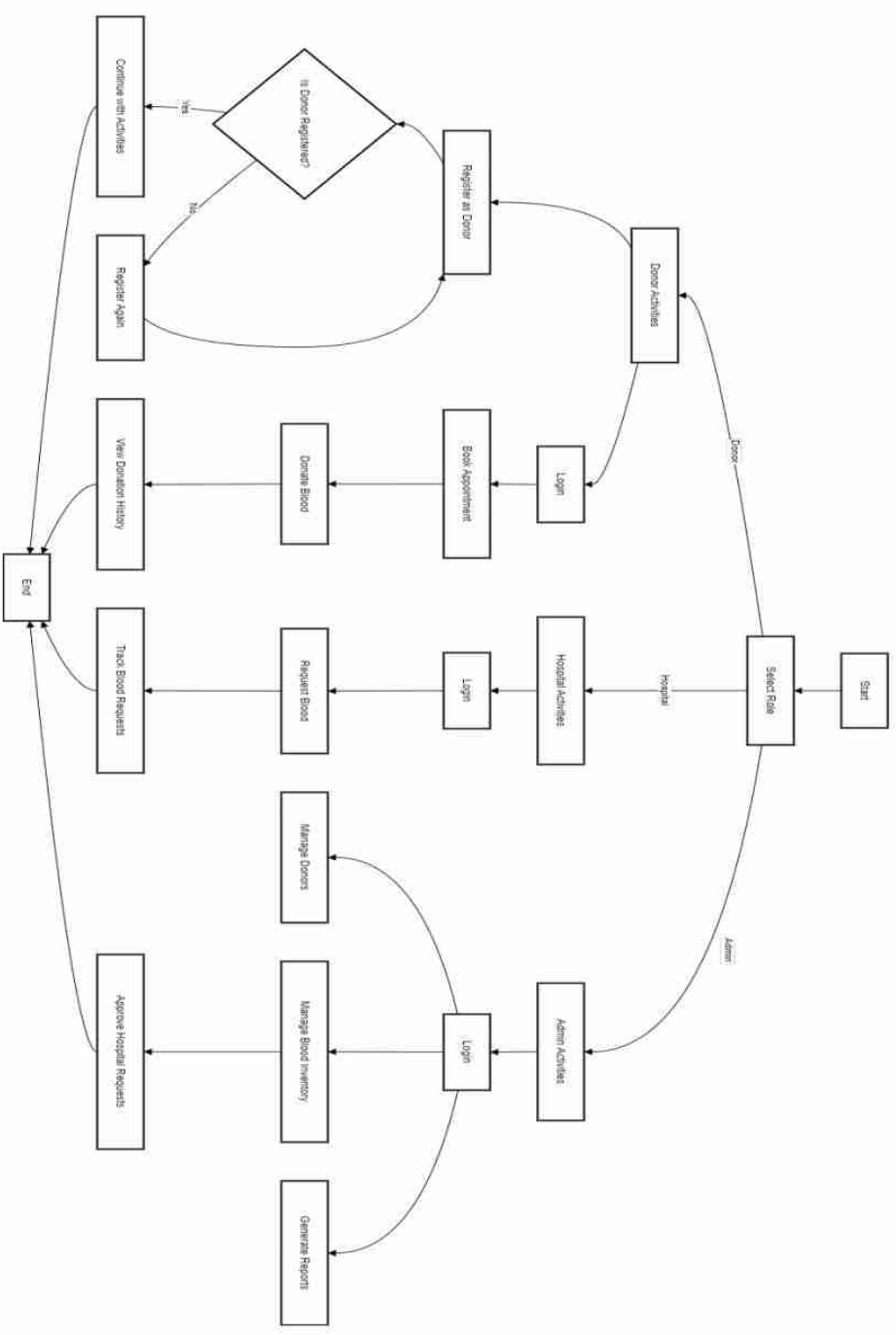
Decision Points

Guards

Parallel Activities

Conditions

Result:



EX NO:7	Draw state chart diagram of all use cases.
DATE	

AIM:

To Draw the State Chart Diagram for any project

ALGORITHM:

STEP-1: Identify the important objects to be analysed.

STEP-2: Identify the states.

STEP-3: Identify the events.

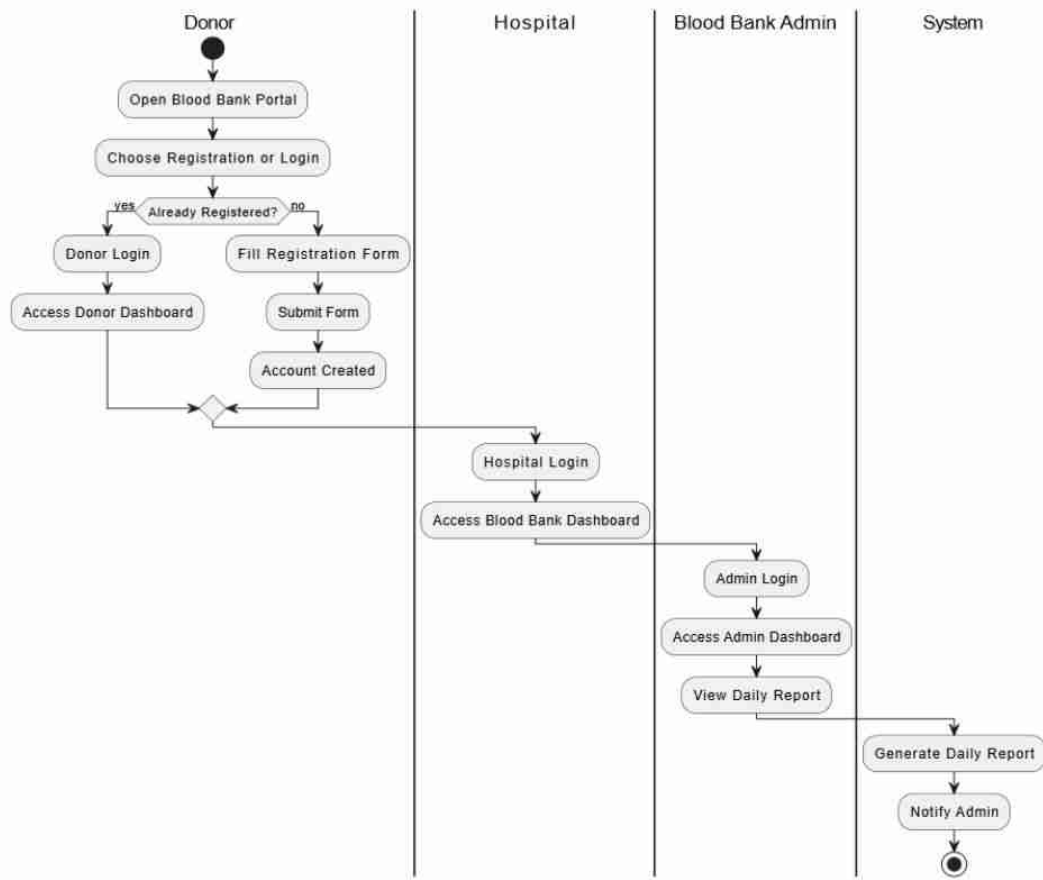
INPUTS:

Objects

States

Events

Result:



EX NO:8	Draw sequence diagram of all use cases.
DATE	

AIM:

To Draw the Sequence Diagram for any project

ALGORITHM:

1. Identify the Scenario
2. List the Participants
3. Define Lifelines
4. Arrange Lifelines
5. Add Activation Bars
6. Draw Messages
7. Include Return Messages
8. Indicate Timing and Order
9. Include Conditions and Loops
10. Consider Parallel Execution
11. Review and Refine
12. Add Annotations and Comments
13. Document Assumptions and Constraints
14. Use a Tool to create a neat sequence diagram

INPUTS:

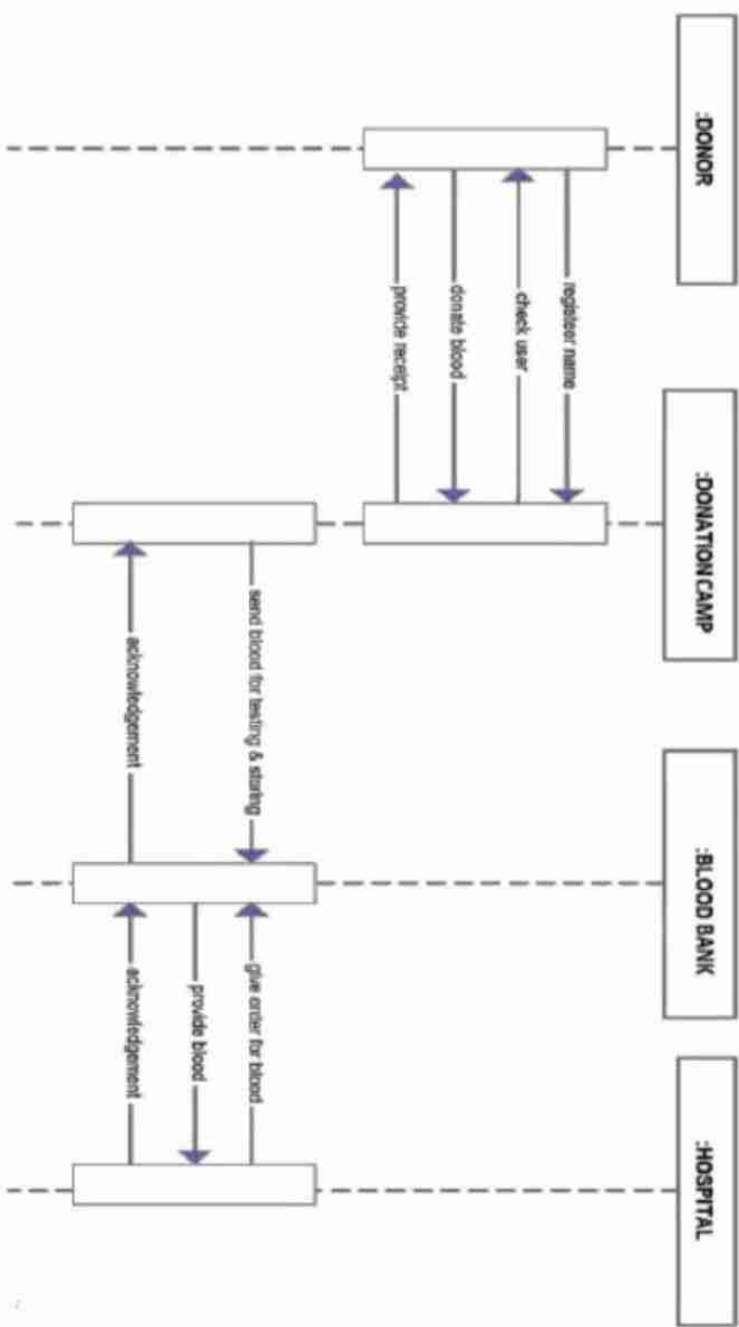
Objects taking part in the interaction.

Message flows among the objects.

The sequence in which the messages are flowing.

Object organization.

Result:



EX NO:9	Draw collaboration diagram of all use cases
DATE	

Draw collaboration diagram of all use cases

AIM:

To Draw the Collaboration Diagram for any project

ALGORITHM:

Step 1: Identify Objects/Participants

Step 2: Define Interactions

Step 3: Add Messages

Step 4: Consider Relationships

Step 5: Document the collaboration diagram along with any relevant explanations or annotations.

INPUTS:

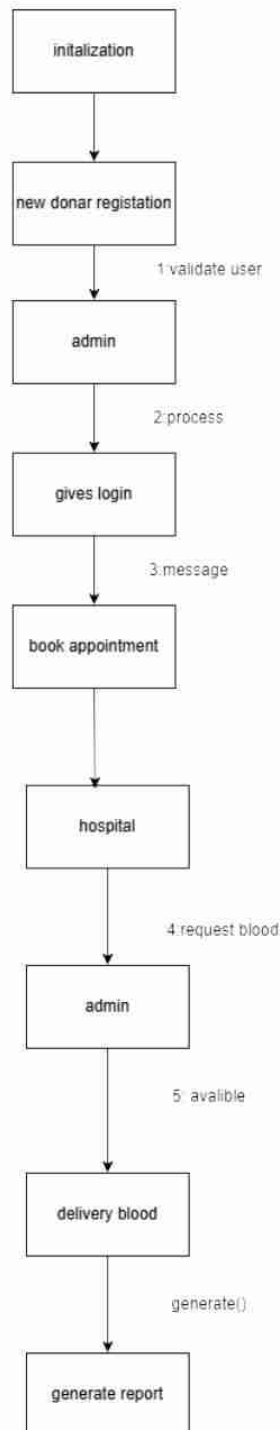
Objects taking part in the interaction.

Message flows among the objects.

The sequence in which the messages are flowing.

Object organization.

Result:



EX NO:10	Assign objects in sequence diagram to classes and make class diagram.
DATE	

AIM:

To Draw the Class Diagram for any project

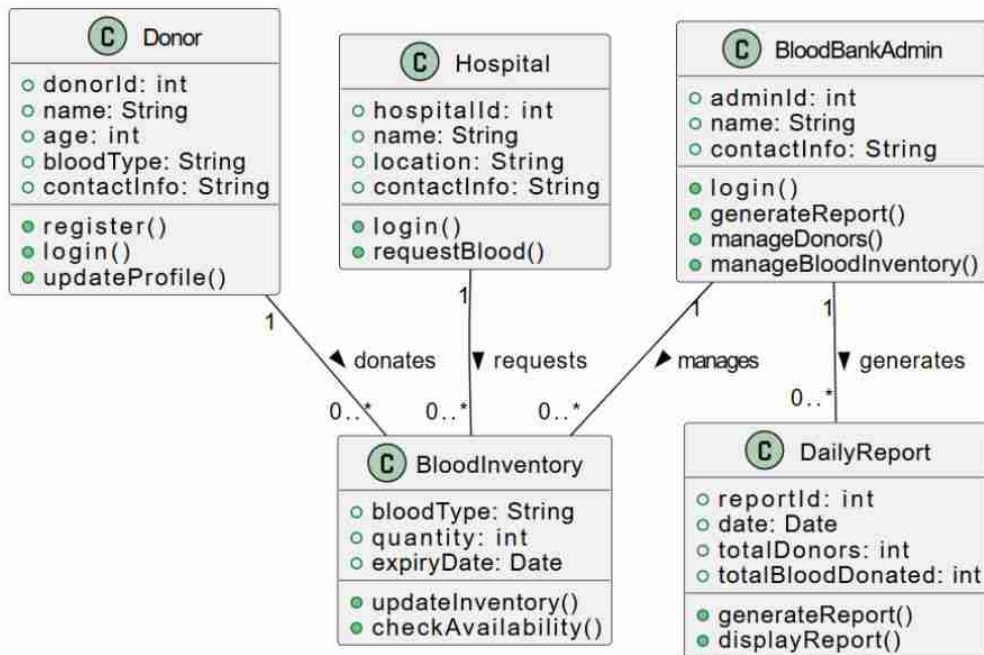
ALGORITHM:

1. Identify Classes
2. List Attributes and Methods
3. Identify Relationships
4. Create Class Boxes
5. Add Attributes and Methods
6. Draw Relationships
7. Label Relationships
8. Review and Refine
9. Use Tools for Digital Drawing

INPUTS:

1. Class Name
2. Attributes
3. Methods
4. Visibility Notation

Result:



EX NO:11	Mini Project-Blood Bank Management System
DATE	

Aim:

The Blood Bank Management System aims to manage donor records, blood inventory, and hospital requests efficiently, ensuring a timely supply of blood for patients in need. It helps optimize blood donation and availability, facilitating better organization and accessibility within blood banks.

Algorithm:

1. **Donor Registration:** Collect and verify donor details, checking eligibility based on criteria like age and health.
2. **Blood Donation Entry:** Record the donated blood, updating the inventory with blood type and quantity.
3. **Inventory Management:** Monitor and update stock levels; alert admin if stock is low for any blood type.
4. **Hospital Blood Request:** Accept and verify blood requests from hospitals, checking stock availability.
5. **Appointment Scheduling:** Allow donors to book appointments, checking slot availability.
6. **Request Processing:** Approve or deny requests based on inventory, notifying hospitals of the status.
7. **Generate Reports:** Summarize data on blood stock, donors, and pending requests for administrative review.

Program:

```
import streamlit as st

import sqlite3

import pandas as pd

from datetime import datetime

# Database Setup

def create_tables():

    with sqlite3.connect("database.db") as conn:

        cursor = conn.cursor()

        cursor.execute("""CREATE TABLE IF NOT EXISTS Donor

                            (id INTEGER PRIMARY KEY, name TEXT, age INTEGER, blood_type TEXT,

                             contact_info TEXT, last_donation_date TEXT)""")
```



```

cursor.execute("""CREATE TABLE IF NOT EXISTS Appointment

                (id INTEGER PRIMARY KEY, donor_id INTEGER, doctor_id INTEGER, date TEXT,
time TEXT, status TEXT)""")

cursor.execute("""CREATE TABLE IF NOT EXISTS Doctor

                (id INTEGER PRIMARY KEY, name TEXT, specialization TEXT)""")

cursor.execute("""CREATE TABLE IF NOT EXISTS BloodInventory

                (id INTEGER PRIMARY KEY AUTOINCREMENT, blood_type TEXT UNIQUE,
quantity INTEGER)""")

cursor.execute("""CREATE TABLE IF NOT EXISTS BloodRequest

                (id INTEGER PRIMARY KEY, hospital_name TEXT, blood_type TEXT, quantity
INTEGER, status TEXT)""")

cursor.execute("""CREATE TABLE IF NOT EXISTS TransactionLog

                (id INTEGER PRIMARY KEY, transaction_type TEXT, date TEXT, details TEXT)""")

conn.commit()

create_tables()

# Helper functions

def add_donor(name, age, blood_type, contact_info, last_donation_date):

    with sqlite3.connect("database.db") as conn:

        cursor = conn.cursor()

        cursor.execute("INSERT INTO Donor (name, age, blood_type, contact_info, last_donation_date)
VALUES (?, ?, ?, ?, ?)",

                        (name, age, blood_type, contact_info, last_donation_date))

        conn.commit()

def get_donors():

    with sqlite3.connect("database.db") as conn:

        cursor = conn.cursor()

        cursor.execute("SELECT * FROM Donor")

```

```
return cursor.fetchall()
```

```
def add_doctor(name, specialization):
```

```
    with sqlite3.connect("database.db") as conn:
```

```
        cursor = conn.cursor()
```

```
        cursor.execute("INSERT INTO Doctor (name, specialization) VALUES (?, ?)",
```

```
                        (name, specialization))
```

```
        conn.commit()
```

```
def get_doctors():
```

```
    with sqlite3.connect("database.db") as conn:
```

```
        cursor = conn.cursor()
```

```
        cursor.execute("SELECT * FROM Doctor")
```

```
    return cursor.fetchall()
```

```
def book_appointment(donor_id, doctor_id, date, time):
```

```
    with sqlite3.connect("database.db") as conn:
```

```
        cursor = conn.cursor()
```

```
        cursor.execute("INSERT INTO Appointment (donor_id, doctor_id, date, time, status) VALUES (?, ?, ?, ?, 'Pending')",
```

```
                        (donor_id, doctor_id, date, time))
```

```
        conn.commit()
```

```
def get_appointments(donor_id):
```

```
    with sqlite3.connect("database.db") as conn:
```

```
        cursor = conn.cursor()
```

```
        cursor.execute("SELECT * FROM Appointment WHERE donor_id = ?", (donor_id,))
```

```
    return cursor.fetchall()
```

```
def manage_inventory(blood_type, quantity):  
    with sqlite3.connect("database.db") as conn:  
        cursor = conn.cursor()  
  
        cursor.execute("SELECT quantity FROM BloodInventory WHERE blood_type = ?",  
(blood_type,))  
  
        result = cursor.fetchone()  
  
        if result:  
            cursor.execute("UPDATE BloodInventory SET quantity = quantity + ? WHERE blood_type =  
?", (quantity, blood_type))  
        else:  
            cursor.execute("INSERT INTO BloodInventory (blood_type, quantity) VALUES (?, ?)",  
(blood_type, quantity))  
  
        conn.commit()
```

```
def get_inventory():  
    with sqlite3.connect("database.db") as conn:  
        cursor = conn.cursor()  
  
        cursor.execute("SELECT * FROM BloodInventory")  
  
        return cursor.fetchall()
```

```
def add_blood_request(hospital_name, blood_type, quantity):  
    with sqlite3.connect("database.db") as conn:  
        cursor = conn.cursor()  
  
        cursor.execute("INSERT INTO BloodRequest (hospital_name, blood_type, quantity, status)  
VALUES (?, ?, ?, 'Pending')",  
  
            (hospital_name, blood_type, quantity))  
  
        conn.commit()
```

```
def get_blood_requests():
```

```
with sqlite3.connect("database.db") as conn:
```

```
    cursor = conn.cursor()
```

```
    cursor.execute("SELECT * FROM BloodRequest WHERE status = 'Pending'")
```

```
    return cursor.fetchall()
```

```
def generate_report():
```

```
    with sqlite3.connect("database.db") as conn:
```

```
        cursor = conn.cursor()
```

```
        # Number of donors
```

```
        cursor.execute("SELECT COUNT(*) FROM Donor")
```

```
        total_donors = cursor.fetchone()[0]
```

```
        # Number of donations
```

```
        cursor.execute("SELECT COUNT(*) FROM Appointment WHERE status = 'Completed'")
```

```
        total_donations = cursor.fetchone()[0]
```

```
        # Requests sent by hospitals
```

```
        cursor.execute("SELECT COUNT(*) FROM BloodRequest")
```

```
        total_requests = cursor.fetchone()[0]
```

```
        # Approved requests
```

```
        cursor.execute("SELECT COUNT(*) FROM BloodRequest WHERE status = 'Approved'")
```

```
        approved_requests = cursor.fetchone()[0]
```

```
        # Data summary
```

```
        report_data = {
```

```
            "Total Donors Registered": total_donors,
```

```
"Total Donations Completed": total_donations,  
"Total Requests by Hospitals": total_requests,  
"Approved Requests": approved_requests,  
}  
  
return report_data
```

```
# Main App
```

```
def main():
```

```
    st.title("Blood Bank Management System")
```

```
    # User Role Selection
```

```
    role = st.sidebar.selectbox("Choose Role", ["Donor", "Hospital Admin", "Blood Bank Admin"],  
                                key="role")
```

```
    if role == "Donor":
```

```
        st.header("Donor Interface")
```

```
        donor_menu = st.selectbox("Choose an option", ["Register", "View Details", "Book Appointment",  
"View Appointments"], key="donor_menu")
```

```
        if donor_menu == "Register":
```

```
            st.subheader("Register as a Donor")
```

```
            name = st.text_input("Name")
```

```
            age = st.number_input("Age", min_value=18, max_value=65)
```

```
            blood_type = st.selectbox("Blood Type", ["A+", "A-", "B+", "B-", "AB+", "AB-", "O+", "O-"],  
key="blood_type")
```

```
            contact_info = st.text_input("Contact Information")
```

```
            last_donation_date = st.date_input("Last Donation Date")
```

```
            if st.button("Register"):
```

```

add_donor(name, age, blood_type, contact_info, last_donation_date.strftime("%Y-%m-%d"))

st.success("Donor registered successfully!")


# Display donor ID and details

donors = get_donors()

donor_id = donors[-1][0]

st.write(f'Your Donor ID: {donor_id}')

st.write(f'Name: {name}, Age: {age}, Blood Type: {blood_type}, Contact: {contact_info},
Last Donation: {last_donation_date}')


elif donor_menu == "View Details":

    st.subheader("View Donor Details")

    donors = get_donors()

    for donor in donors:

        st.write(f'Name: {donor[1]}, Age: {donor[2]}, Blood Type: {donor[3]}, Contact: {donor[4]},
Last Donation: {donor[5]}')


elif donor_menu == "Book Appointment":

    st.subheader("Book an Appointment")

    donor_id = st.number_input("Enter your Donor ID", min_value=1, step=1)

    date = st.date_input("Preferred Date")

    time = st.time_input("Preferred Time")


# Fetch available doctors by name and specialization

doctors = getDoctors()

doctor_choices = {f'{doc[1]} ({doc[2]})': doc[0] for doc in doctors} # {name (specialization):
id}

if doctors:

```

```

        doctor_id = st.selectbox("Select Doctor", list(doctor_choices.keys()))

        if st.button("Book Appointment"):

            book_appointment(donor_id, doctor_choices[doctor_id], date.strftime('%Y-%m-%d'),
time.strftime('%H:%M'))

            st.success("Appointment booked successfully! Awaiting confirmation.")

        else:

            st.write("No doctors available to select.")

elif donor_menu == "View Appointments":

    st.subheader("View Appointments")

    donor_id = st.number_input("Enter your Donor ID", min_value=1, step=1)

    appointments = get_appointments(donor_id)

    if appointments:

        for appointment in appointments:

            st.write(f"Appointment ID: {appointment[0]}")

            st.write(f"Donor Name: {appointment[1]}")

            st.write(f"Doctor: {appointment[2]} ({appointment[3]})")

            st.write(f>Date: {appointment[4]}, Time: {appointment[5]}")

            st.write(f>Status: {appointment[6]}")

            st.write("---")

        else:

            st.write("No appointments found for this donor.")

elif role == "Hospital Admin":

    st.header("Hospital Admin Interface")

    hospital_menu = st.selectbox("Choose an option", ["Request Blood", "View Request Status"],
key="hospital_menu")

    if hospital_menu == "Request Blood":

```

```

st.subheader("Request Blood")

hospital_name = st.text_input("Hospital Name")

blood_type = st.selectbox("Blood Type", ["A+", "A-", "B+", "B-", "AB+", "AB-", "O+", "O-"],
key="hospital_blood_type")

quantity = st.number_input("Quantity", min_value=1)

if st.button("Request Blood"):

    add_blood_request(hospital_name, blood_type, quantity)

    st.success(f"Blood request for {blood_type} ({quantity} units) successfully made.")

elif hospital_menu == "View Request Status":

    st.subheader("View Request Status")

    blood_requests = get_blood_requests()

    for request in blood_requests:

        st.write(f"Request ID: {request[0]}")

        st.write(f"Hospital: {request[1]}")

        st.write(f"Blood Type: {request[2]}")

        st.write(f"Quantity: {request[3]}")

        st.write(f"Status: {request[4]}")

        st.write("---")

elif role == "Blood Bank Admin":

    st.header("Blood Bank Admin Interface")

    admin_menu = st.selectbox("Choose an option", ["Manage Inventory", "Generate Report"],
key="admin_menu")

    if admin_menu == "Manage Inventory":

        st.subheader("Manage Blood Inventory")

```



```
blood_type = st.selectbox("Blood Type", ["A+", "A-", "B+", "B-", "AB+", "AB-", "O+", "O-"],  
key="admin_blood_type")
```

```
quantity = st.number_input("Quantity", min_value=1)
```

```
if st.button("Update Inventory"):
```

```
    manage_inventory(blood_type, quantity)
```

```
    st.success(f"Blood inventory for {blood_type} updated by {quantity} units.")
```

```
elif admin_menu == "Generate Report":
```

```
    st.subheader("Generate Report")
```

```
    report_data = generate_report()
```

```
    for key, value in report_data.items():
```

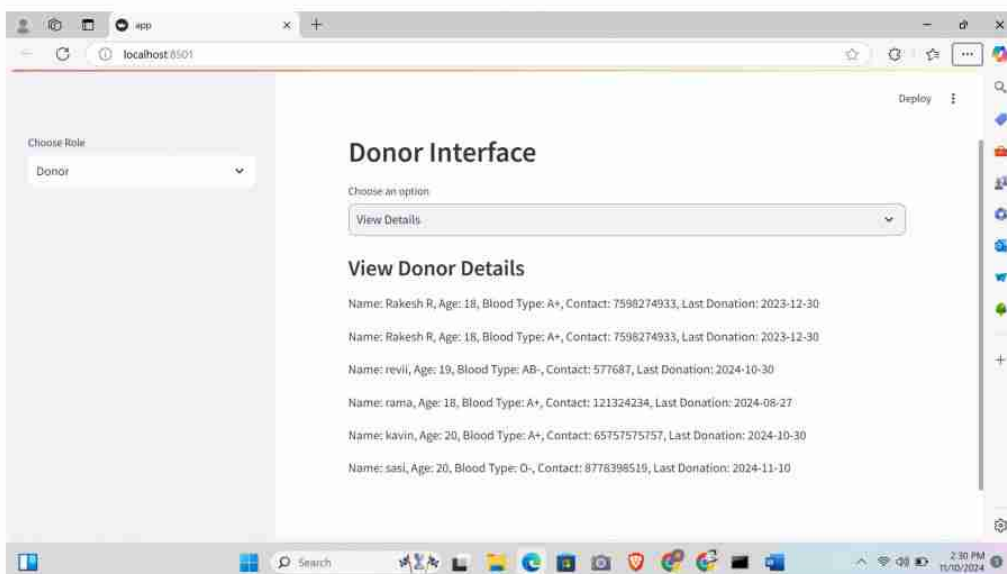
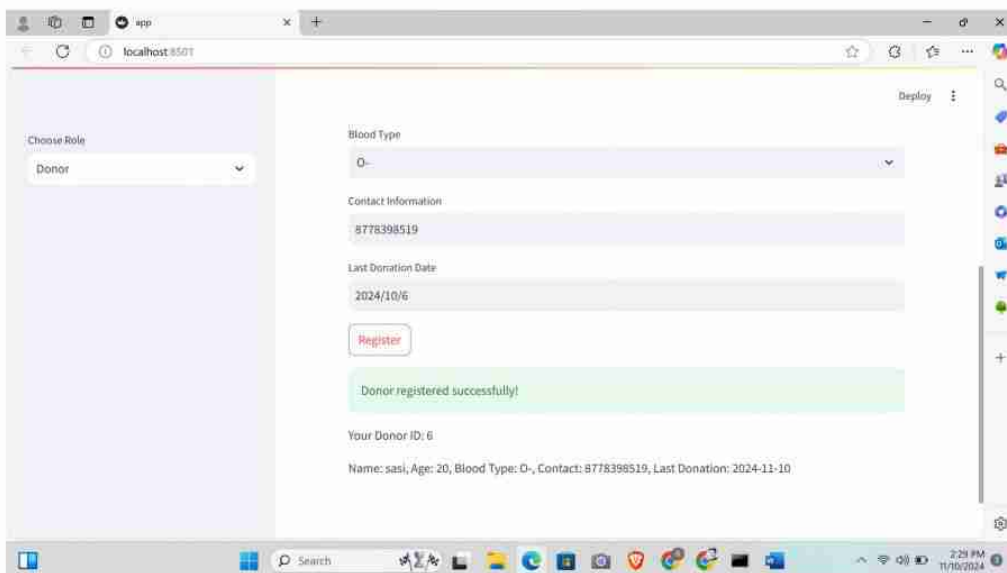
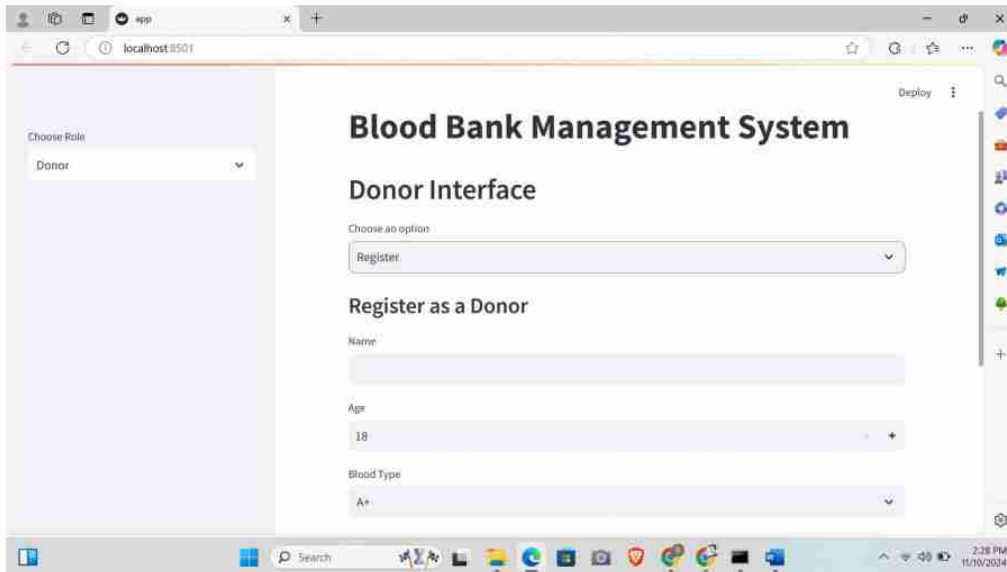
```
        st.write(f"{key}: {value}")
```

```
if __name__ == "__main__":
```

```
    main()
```

Conclusion

The Blood Bank Management System developed using Streamlit and SQLite offers a user-friendly interface for donors, hospital admins, and blood bank administrators to effectively manage blood donation processes, track inventory, and handle blood requests. This system enhances the efficiency of blood donation management by centralizing key functionalities and providing real-time updates on donor registrations, blood availability, and request statuses.



Choose Role
Donor

Blood Bank Management System

Donor Interface

Choose an option
Book Appointment

Book an Appointment

Enter your Donor ID
3

Preferred Date
2024/11/10

Preferred Time
14:31

Choose Role
Donor

Blood Bank Management System

Donor Interface

Choose an option
View Appointments

View Appointments

Enter your Donor ID
3

Appointment ID: 4
Donor Name: 3
Doctor: 2024-10-30 (17:00)

Choose Role
Hospital Admin

Blood Bank Management System

Hospital Admin Interface

Choose an option
Request Blood

Request Blood

Hospital Name
rk hospital

Blood Type
A+

Quantity
9

Request Blood

Blood request for A+ (9 units) successfully made.

