



## **Use Case 1: User Emergency Blood**

**Actor:** User

**Scenario:**

1. User logs into the Blood Bank System.
2. User selects the "Emergency Blood" option.
3. User specifies the required blood type and urgency level.
4. The system searches for available donors with matching blood type and location.
5. If a suitable donor is found, the user is presented with donor contact information.
6. User contacts the donor to request blood.
7. The system records the request and updates the donor's status.

**Precondition:** User is logged in.

**Post-condition:** User receives donor contact information for blood request.

**Exception:** If no matching donors are found, the system notifies the user that no donors are available.

## **Use Case 2: Donor Request**

**Actor:** Donor

**Scenario:**

1. Donor logs into the Blood Bank System.
2. Donor selects the "Donor Request" option.
3. Donor provides their availability and willingness to donate.
4. The system updates the donor's status as available for donation.
5. Donor's information is added to the donor database.

**Precondition:** Donor is logged in.

**Post-condition:** Donor's availability for donation is updated in the system.

**Exception:** None.

## **Use Case 7: Searching for Blood Group**

**Actor:** User

**Scenario:**

1. User logs into the Blood Bank System.
2. User selects the "Search Blood Group" option.
3. User specifies the desired blood type.
4. The system searches for donors with the specified blood type and displays the results.

**Precondition:** User is logged in.

**Post-condition:** User can view a list of donors with the specified blood type.

**Exception:** If no matching donors are found, the system notifies the user that no donors are available.