

## User Story on “Blood Bank”

### Card:

**As a** : Patient or Admin

**I want** : To search for available blood donors or blood units by blood group and location

**So that:** I can quickly find compatible blood during emergencies

### Conversation:

1. User navigates to “**Blood Bank**” from the sidebar (Patient/Admin view).
2. Can **search by blood group (A+, O-, etc.), location, urgency, or donor availability.**
3. System displays **list of donors** with contact info and availability status.
4. Admin can **add, verify, or update donor records** (name, blood group, phone, last donation).
5. Verified donors are marked with a “**Ready to Donate**” badge.
6. Patient/Admin can **request a donation** – sends alert to donor and admin.

### Confirmation:

#### Success:

1. Blood search returns **accurate results by group and location.**
2. Donor details are **complete and verified.**
3. Admin can **add or update donor info** in MongoDB.
4. Request is **sent successfully** via notification (Firebase).
5. UI is **responsive** with clear CTAs (Tailwind + React).

#### Failure:

1. **No blood group selected** → shows: “Please select a blood group.”
2. **No donors found** → displays: “No donors available in this area.”
3. **Invalid contact or incomplete donor form** → blocks save with error.
4. **Unauthorized access** → non-admin users cannot edit donor records.
5. **Network failure** → shows: “Could not load data – check connection.”
6. **Session expired** → redirects to login.
7. **Firebase/MongoDB down** → displays: “Service unavailable.”
8. **Unverified donor** → marked as “Pending Approval.”
9. **Duplicate donor entry** → system checks phone/blood group to prevent duplicates.
10. **Urgent request fails** → retry option shown with error log.