Phase 1: Problem Understanding & Industry Analysis

1. Requirement Gathering

- Identified key needs for blood banks, hospitals, and donors:
 - Donor registration
 - Donation history tracking
 - Blood inventory management
 - Urgent hospital requests
 - o Automated donor engagement

2. Stakeholder Analysis

- Donors: Individuals willing to donate blood
- Blood Bank Staff: Manage donor information, inventory, and coordinate donations
- Hospital Staff: Request blood during emergencies and routine cases
- Administrators: Oversee compliance, quality, and inventory levels
- Volunteers/NGOs: Assist organizing donor drives and awareness

3. Business Process Mapping

- Current State:
 - Manual donor tracking
 - o Telephonic requests
 - o Paper inventory causing delays and shortages
- Proposed Flow:
 - o Donor registration → Eligibility verification → Scheduled donation
 - o Donation completion → Inventory update
 - o Hospital request → Automated matching → Donor/stock allocation

Automated donor reminders and feedback collection

4. Industry-Specific Use Case Analysis

- Challenges in Healthcare:
 - o Ensuring safe and timely blood availability
 - o Rapid response to emergencies
 - o Maintaining compliant donor history
 - o Minimizing wastage due to expiry
- Relevant Use Case:
 - o Real-time inventory tracking and urgent donor mobilization
 - Address seasonal shortages and disaster scenarios

5. AppExchange Exploration

- Explored existing Salesforce healthcare and donor management apps
- Most lack custom blood inventory, real-time emergency matching, and integrated donor engagement for repeat donations
- Validated the need for a dedicated, extensible solution