Project Title: Organ Donation & Transplant Registry

Phase 1: Problem Understanding & Industry Analysis

1. Requirement Gathering

The project aims to build a Salesforce-based Organ Donation & Transplant Registry to streamline donor-recipient matching and automate transplant coordination.

Key Requirements:

- Maintain records of Donors, Recipients, Organs, and Match Records.
- Automate **compatibility checks** (e.g., blood group, organ type).
- Notify doctors when a match is found.
- Provide **dashboards** showing organ availability, pending requests, and success rates.
- Ensure **secure access control** for different stakeholders (doctors, coordinators, admins).
- Enable **reports** for government and healthcare analysis.

2. Stakeholder Analysis

Primary Stakeholders:

- **Doctors:** Need real-time notifications of donor–recipient matches.
- Hospital Coordinators: Manage donor and recipient records.
- Patients/Recipients: Waiting for organ matches.
- **Donors & Families:** Provide organ donation consent.
- System Admins: Manage users, permissions, and system settings.
- Healthcare Authorities: Require reports for compliance and monitoring.

3. Business Process Mapping

Current Challenges (Manual Process):

- Donor data stored in scattered hospital records.
- Matching process slow and error-prone.
- No centralized view of available vs. requested organs.
- Poor communication between coordinators and doctors.

Proposed Process with Salesforce:

1. Donor/Recipient data is entered into Salesforce.

- 2. System checks compatibility (blood group, organ type, urgency).
- 3. If match found \rightarrow Match Record created automatically.
- 4. Doctors notified via Email Alerts / Custom Notification.
- 5. Coordinator updates transplant status in the system.
- 6. Reports & Dashboards provide real-time insights.

4. Industry-Specific Use Case Analysis

- Healthcare Industry Needs:
 - Centralized organ registry accessible by hospitals.
 - o Real-time match detection for life-saving decisions.
 - o Compliance with health data privacy regulations.

• Use Case Example:

• A new kidney donor is registered with blood group O+. A patient with O+ in urgent need is already in the system. The flow automatically creates a match record and notifies the assigned doctor, reducing delays in the transplant process.

5. AppExchange Exploration

Relevant Salesforce AppExchange tools that can be leveraged:

- **Health Cloud (Salesforce Industry Cloud):** Pre-built healthcare objects (Patients, Care Plans, etc.).
- DocuSign for Salesforce: For digital consent forms from donors/families.
- Conga Composer: For generating donor/recipient reports.
- Survey Tools: To collect donor/recipient feedback after transplant.