

Title: Organ Donation & Transplant Registry



Problem Statement

Organ donation and transplantation is a life-saving process, but hospitals and healthcare organizations often struggle with managing donor and recipient data efficiently. Manual systems lead to delays in identifying compatible matches, errors in record-keeping, and poor coordination among doctors, hospitals, and coordinators.

The absence of a centralized system results in:

- Difficulty in tracking available organs and their conditions.
- Delayed identification of donor–recipient compatibility.
- Inefficient communication between coordinators and doctors.
- Lack of transparency in approval workflows for transplant procedures.
- Limited real-time reporting on organ availability, requests, and success rates.

To address these challenges, a **Salesforce-based Organ Donation & Transplant Registry** will be developed. The system will manage **donor, recipient, organ, and match records**, automate donor–recipient matching using flows and validation rules, enforce medical compatibility through Apex triggers, and notify doctors/coordinators in real time. The solution will also provide dashboards for monitoring organ availability, transplant requests, and approval statuses, ensuring faster decision-making, improved patient outcomes, and efficient resource utilization.