

Blood Safety and Availability

Objective :

To design, develop and implement a blood safety and availability system, which will enable real time access to availability of blood bags at state - level and proper accounting of blood donors, thus ensuring fast, safe and secure blood transfusion services.

Problem Statement :

The general case scenario in hospitals today is that , if a patient requires a particular type of blood , which is not available in that hospital, then they end up requesting friends and family members searching for a match, which can be time consuming and risky in case of a life and death situation. If there was a one search portal, it would help speed up this process.

Solution :

A one stop application that keeps track of blood bags availability and donors across the state. This will help avoid shortage of a particular blood type and the blood donor's registration will ensure that blood transfusion services will be safe and secure.

Such an application will benefit doctors, nurses and patients ensuring a more efficient health care system.

The scope of this project is state level but can be extended to include national level as well.

Features :

- Ecosystem :Blood Safety and Availability System
- Network : as per the scope of the project – all cities of Massachusetts

- Hospital Enterprise : Consists of various organizations, such as, employees and patients, their respective details and their individual roles
- Blood Bank Enterprise : Consists of various organizations, such as, employees and donors and their respective details and roles
- Payment Tracking and History with respect to the requests and purchase of blood bags are also maintained.

Ecosystem Diagram :

