‘Lifeline’ - Blood and Plasma Donation Website - Problem Synopsis

### PREPARED FOR

CSE300 - Software Engineering

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# 1. Problem Statement

Due to the current pandemic situation in the world, many people are dying, not only because of covid but also due to many other deadly diseases. In this critical situation, there is a lack of proper plasma and blood donation management. There are several people out there who can donate and are willing to, but are unable to do due to various reasons like lack of information or busy schedules. Also, it would become a lot easier for the receiver as he/she would not have to get long contacts with family or friends or the hospitals when in need of plasma or blood. Instead of manually looking for places where the user can donate or receive plasma/blood, they can find this information digitally. In most of the critical cases except for covid patients, there are high chances that the patient would require blood of a certain blood group. Thus, we are trying to bridge the gap between the donor and the receiver through our project.

# 2. Users

The targeted users would be:

a) Donors

b) Patients or the Receivers

c) Hospitals and the Blood

# 3. Features

1. **Donors:**

1) Donation request

● Build a medical profile of the donor

● Check if he is eligible for making a donation.

● Add the donor to the volunteer’s list.

● Suggest donor nearby hospitals and send a request to the nearby hospital to make a donation.

2) Newsfeed and events:-

● Display upcoming news and donation events

3) Hospitals where I could donate:-

● Suggest hospitals nearby where they could register and make a donation request

4) Track my application:-

● Donors can track their donation request status and book an appointment with the hospital.

1. **Receivers:**

(1) Make a request.

● Receivers need to write the hospital in which they are staying, and contact details to make a request to the donor.

● Their requests will be visible to all donors and volunteers in the feed. So that they can easily reach them.

(2) List of Donors

● Even receivers are able to see the donor list in their interface.

(3) Donation completed / confirmed

● After the donor donates blood/plasma to the receiver, the receiver should mark his request as “done/confirmed donation from x-user”.

● This will let the software know which donor has donated the blood. As a result, it will make that donor inactive(disable) for the next 112 days.

1. **Hospitals:**

1.) Register Hospital:

● The hospital should provide their ID/Account no. and validity to register the hospital in the app.

2.) Update stream**:**

● After registration, they can add upcoming events and remainders in the feed.

All the users of the application will be able to see those events.

3.) Accept/Reject donor request**:**

● The hospital checks the donor’s medical profile and accepts the donation request and the donor could schedule an appointment.

# 4. Project Overview

