# **Plasma Donor Application**

#### PROBLEM STATEMENT

During COVID 19 crisis the requirement for plasma increased drastically. The average donation rate for plasma has decreased from an already low 20% to a dismal 11%. Considering the complex manufacturing process to fractionate plasma into the therapies patients rely on can take 7-12 months, any decline in donations is concerning.

Compounding the effects of ongoing decline checking the donor history, i.e., whether he /she was infected previously and was recovered, and which donor is eligible to donate plasma was a challenging task.

Also, saving the healthy donor information, notifying the interested patients and matching the donors with the requestees proved to be a strenuous job.

#### **PROPOSED MODEL**

The proposed method creates an application which aims to solve the aforementioned drawbacks. The system works with the registration of a donor by providing the required details which gets stored in the database.

#### **FEATURES**

Whenever a new user posts a request, the donors with the matching blood group are notified about the request. Interested donors can then respond and donate their plasma.

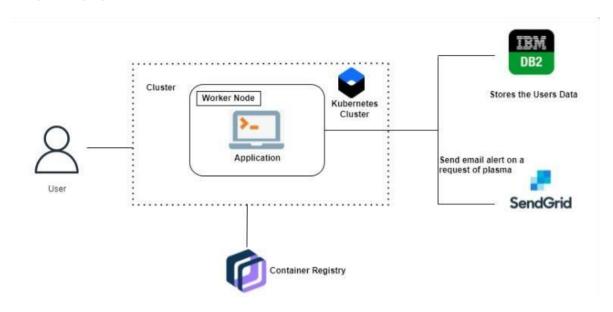
#### **END USER**

The user will be plasma requiring patients and the interested blood donors.

#### **SOFTWARE REQUIREMENTS**

Python, Flask, Docker

#### **ARCHITECTURE**



#### **PROJECT WORKFLOW**

- The user interacts with the application.
- Registers by giving the details as a donor.
- The database will have all the details and if a user posts a request, then the concerned blood group donors will get notified about it.

### **USER INTERFACE**

### **Donor:**

Plasma Donor Application				Home
			_	
	Register as Donor		Request	

Plasma Donor	Home			
	Name:			
	Phone no.:			
	Email:			
	Address:			
	Blood Group:			
Register				

## **Request:**

