PLASMA DONOR APPLICATION

PROBLEM STATEMENT:

The requirement for plasma increased drastically during the COVID-19 crisis. 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, concerning any decline in donations.

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 request is posted by a new user, the donors with the matching blood group are notified about the request. Donors can then respond and donate their plasma if they are interested.

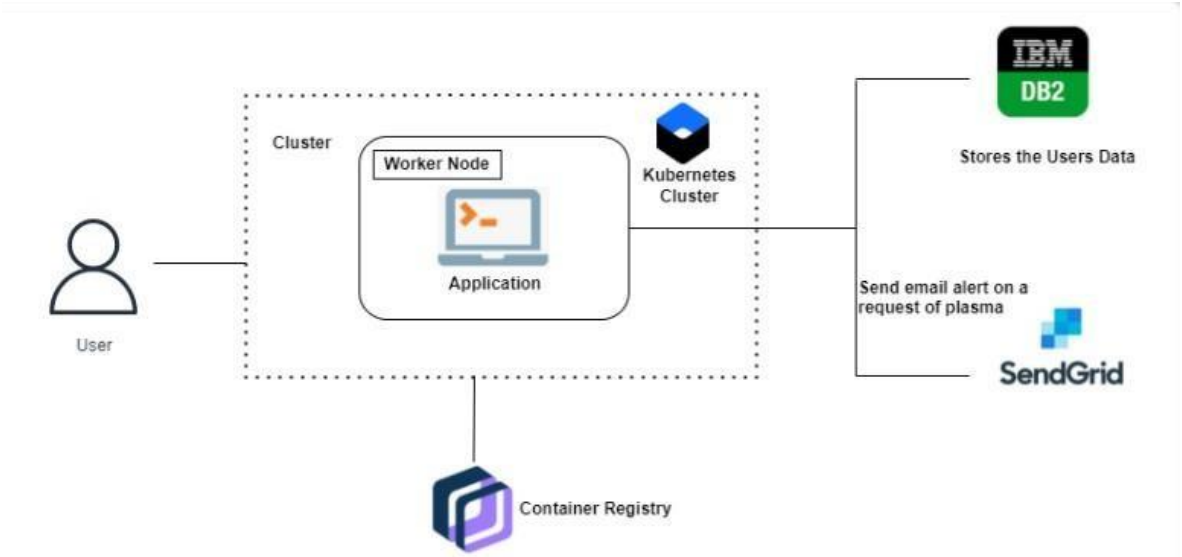
END USER:

The users will be the interested blood donors and the plasma requiring patient.

SOFTWARE REQUIREMENTS:

Python, Flask, Docker

ARCHITECTURE:

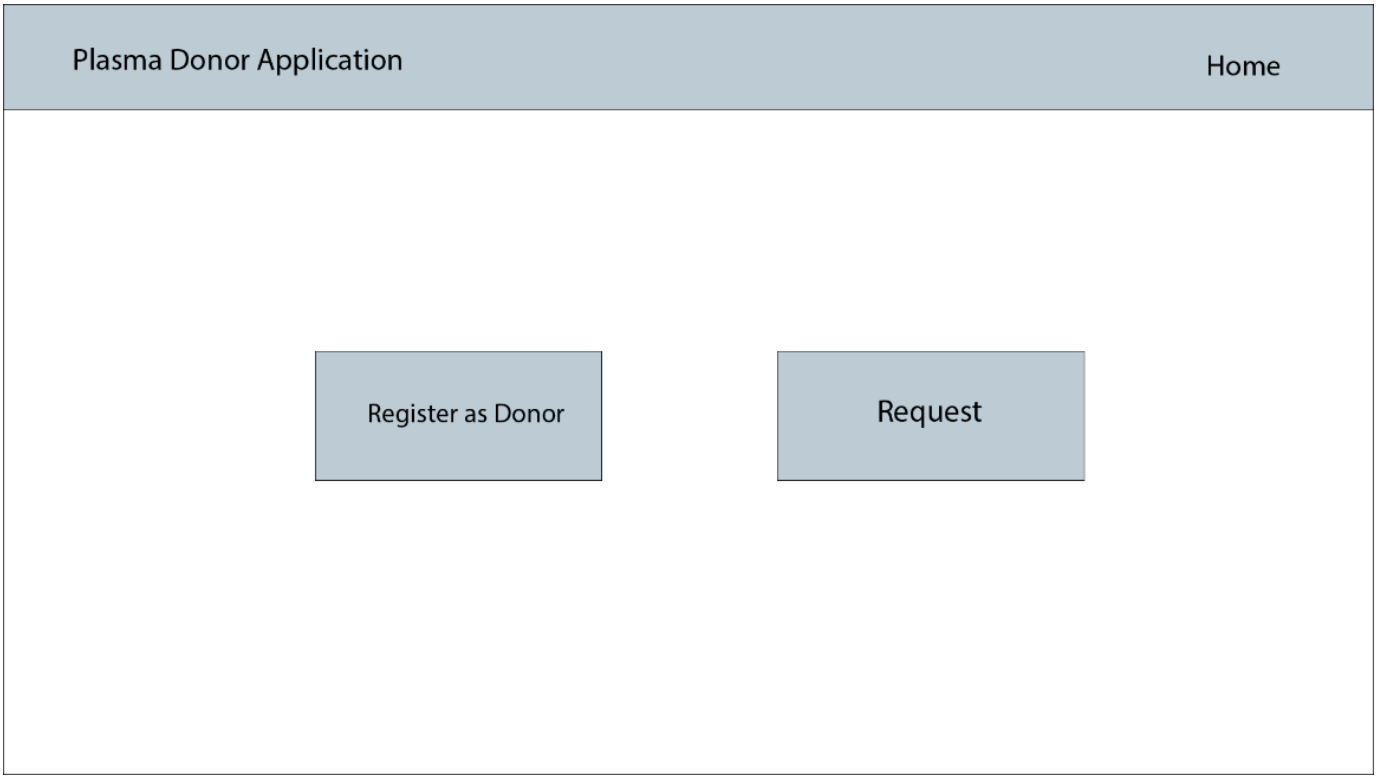


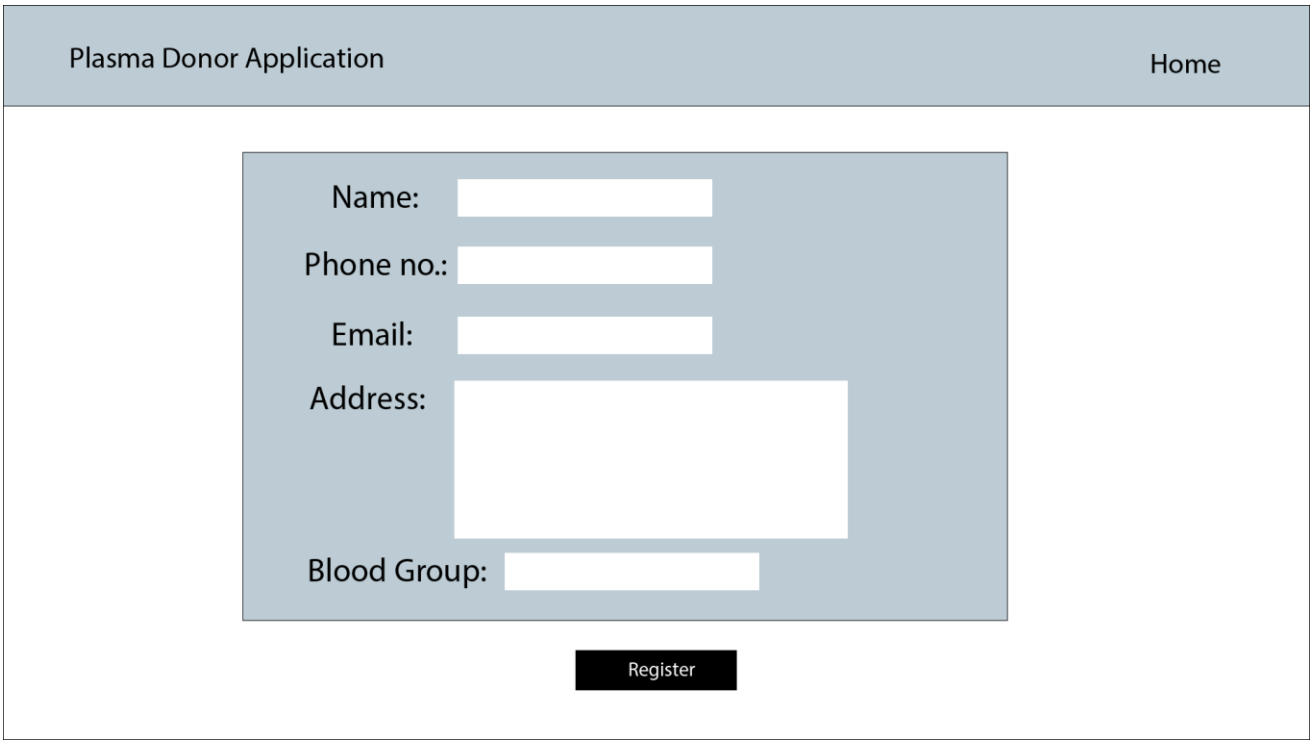
PROJECT WORKFLOW:

- The interaction with the application is done by the user.
- Registeration is done by giving the details as a donor.
- The database will have all the details and if a request is posted by the user, then the concerned blood group donors will get notified about emergency.

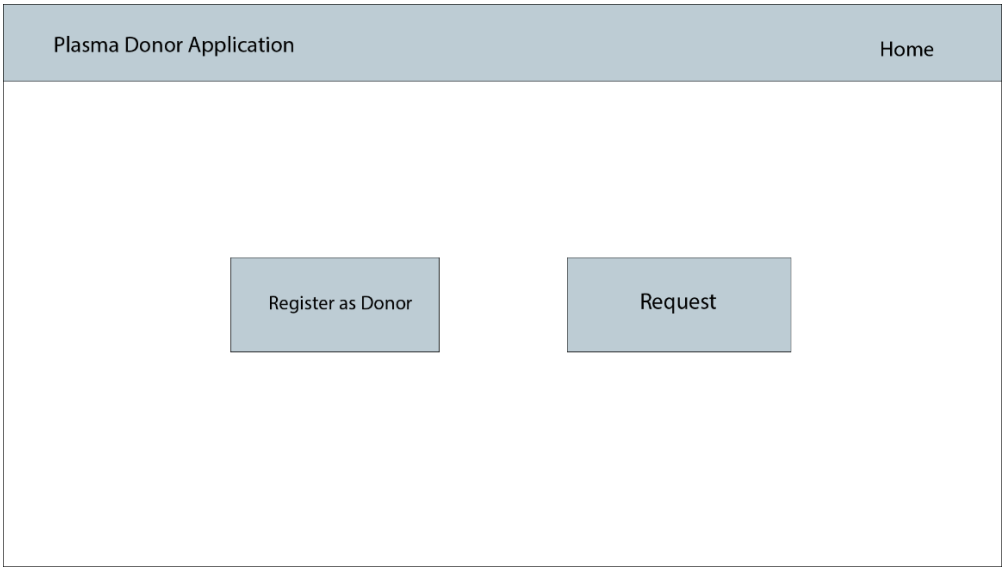
USER INTERFACE:

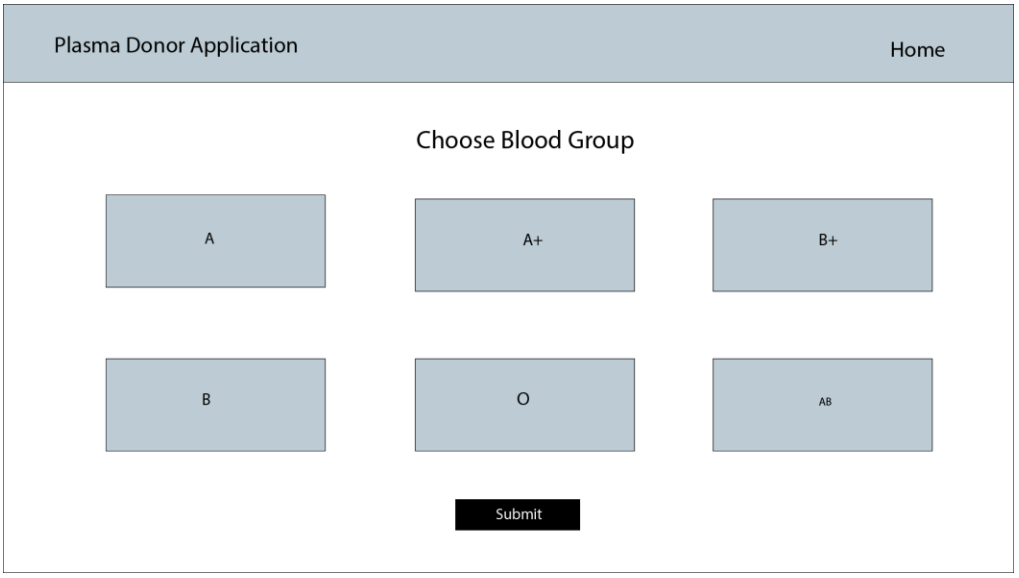
DONOR:

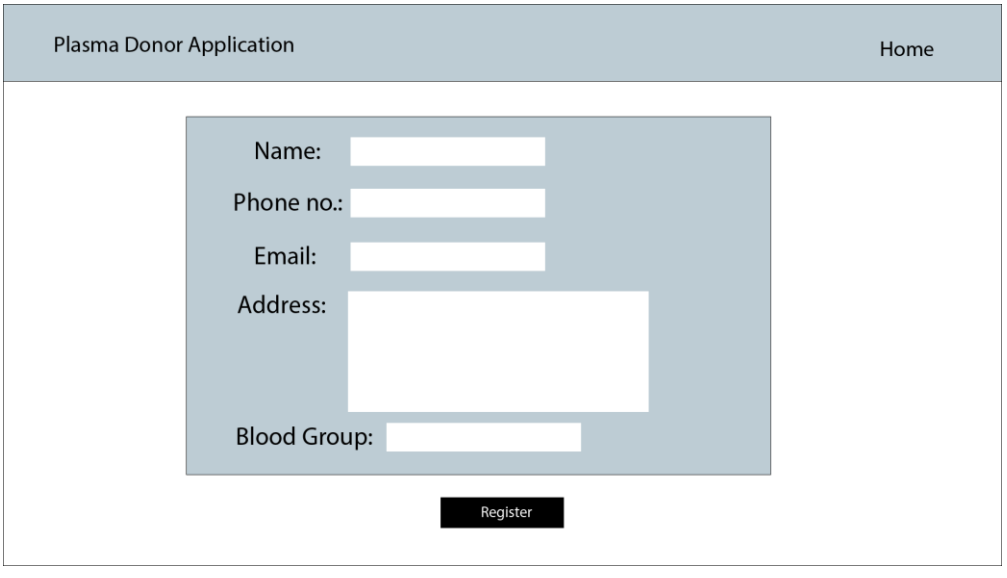




Request:


Plasma Donor Application
Home
Register as Donor
Request


Plasma Donor Application
Home
Choose Blood Group
A
A+
B+
B
O
AB
Submit


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