Plasma Donor Application

TEAM ID : PNT2022TMID40063

PROBLEM STATEMENT

During COVID 19 crisis the requirement for plasma increased drastically. The averagedonation rate for plasma has decreased from an already low 20% to a dismal 11%.
Considering the complex manufacturing process to fractionate plasma into the therapiespatients 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 donateplasma was a challenging task.

Also, saving the healthy donor information, notifying the interested patients and matchingthe 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 requireddetails 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.

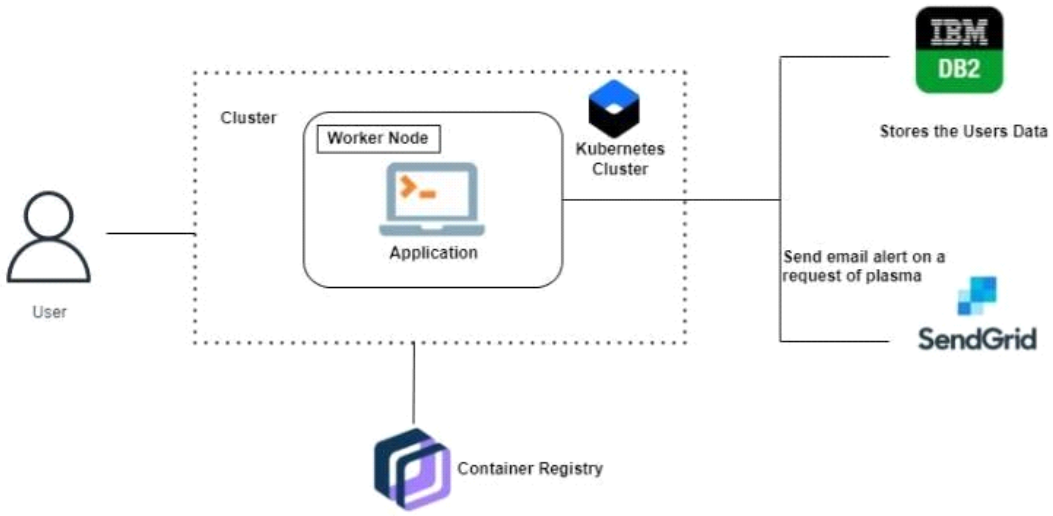
END USER

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

SOFTWARE REQUIREMENTS

Python, Flask, Docker

ARCHITECTURE

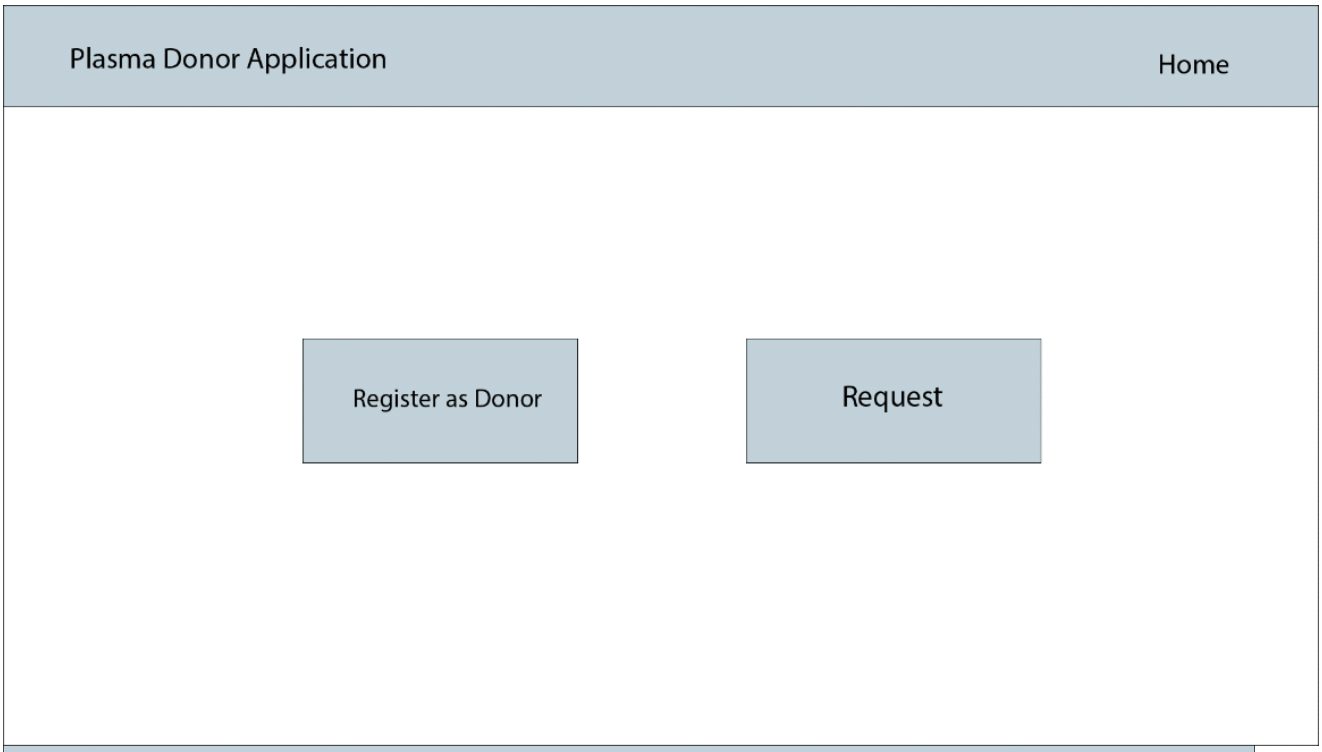


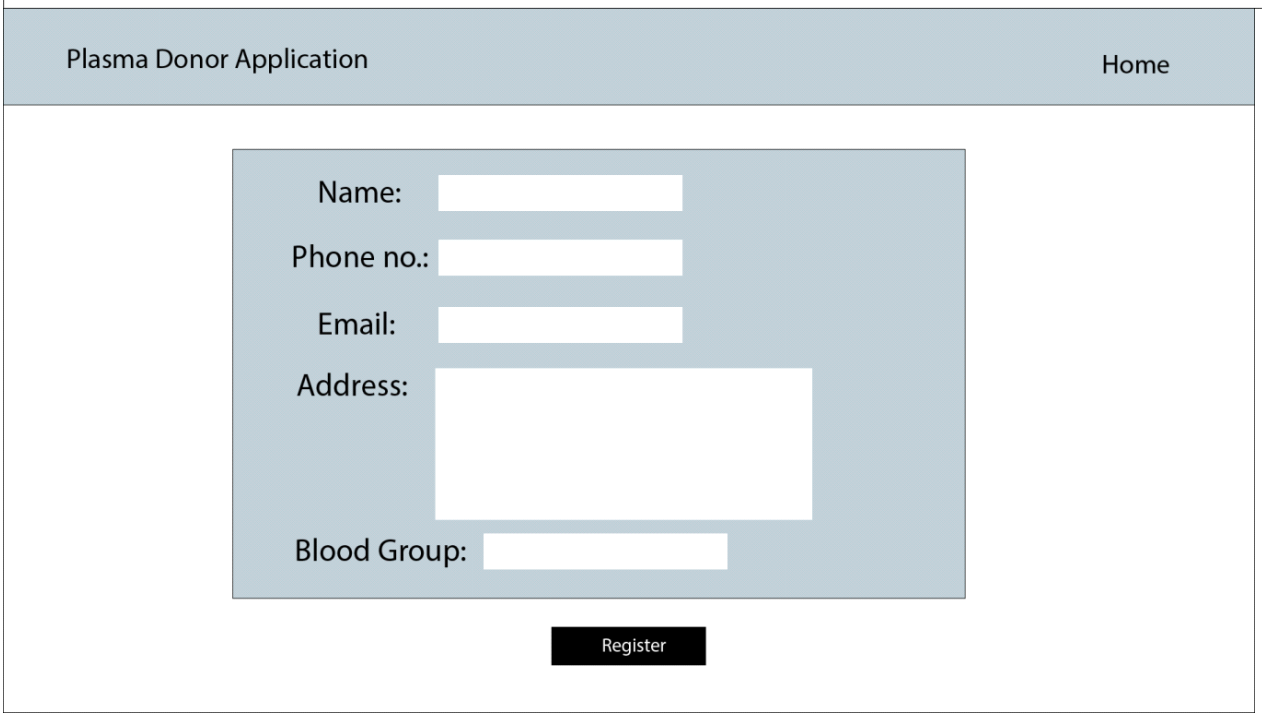
PROJECT WORKFLOW

- 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 concernedblood group donors will get notified about it.

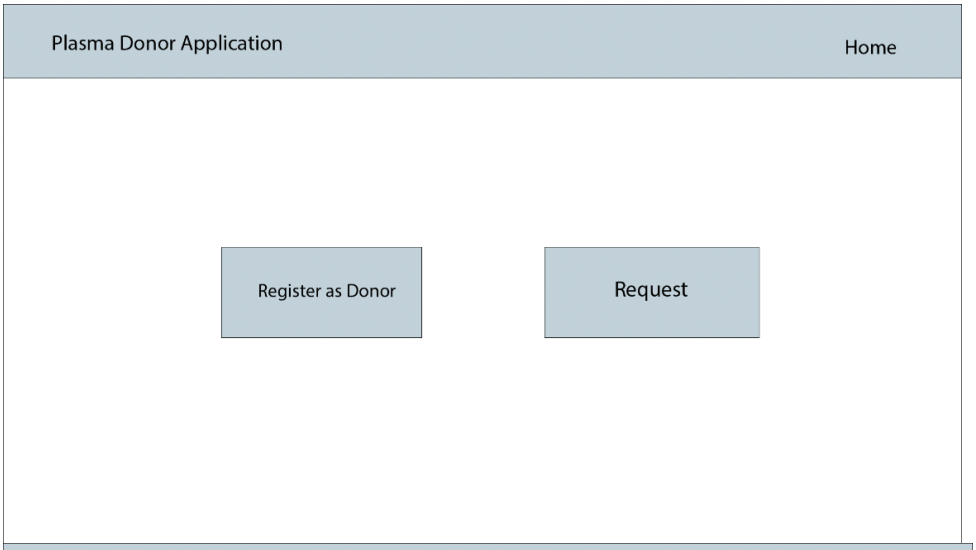
USER INTERFACE

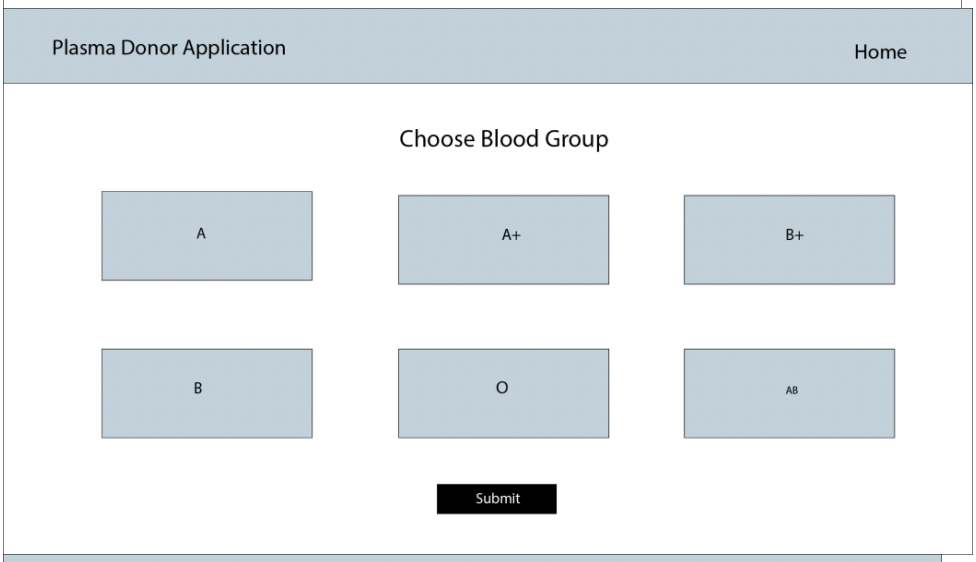
Donor:

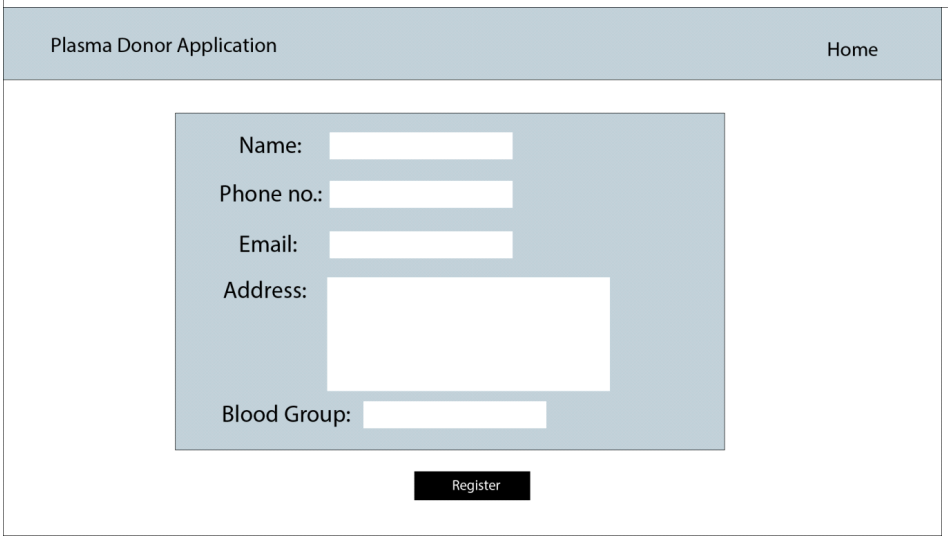




Request:


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