Project Design Phase-II
Technology
Architecture

Date	08 October 2022
Team ID	PNT2022TMID07974
Project Name	Project – Plasma Donor Application
Maximum Marks	4 Marks

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.

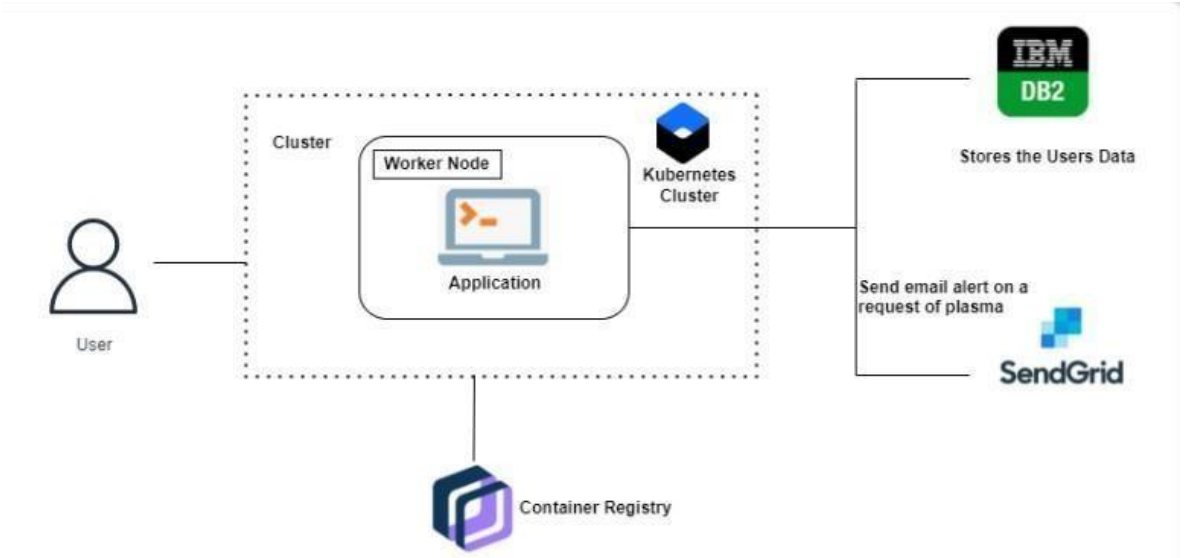
END USER

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

SOFTWARE REQUIREMENTS

Python, Flask, Docker

ARCHITECTURE

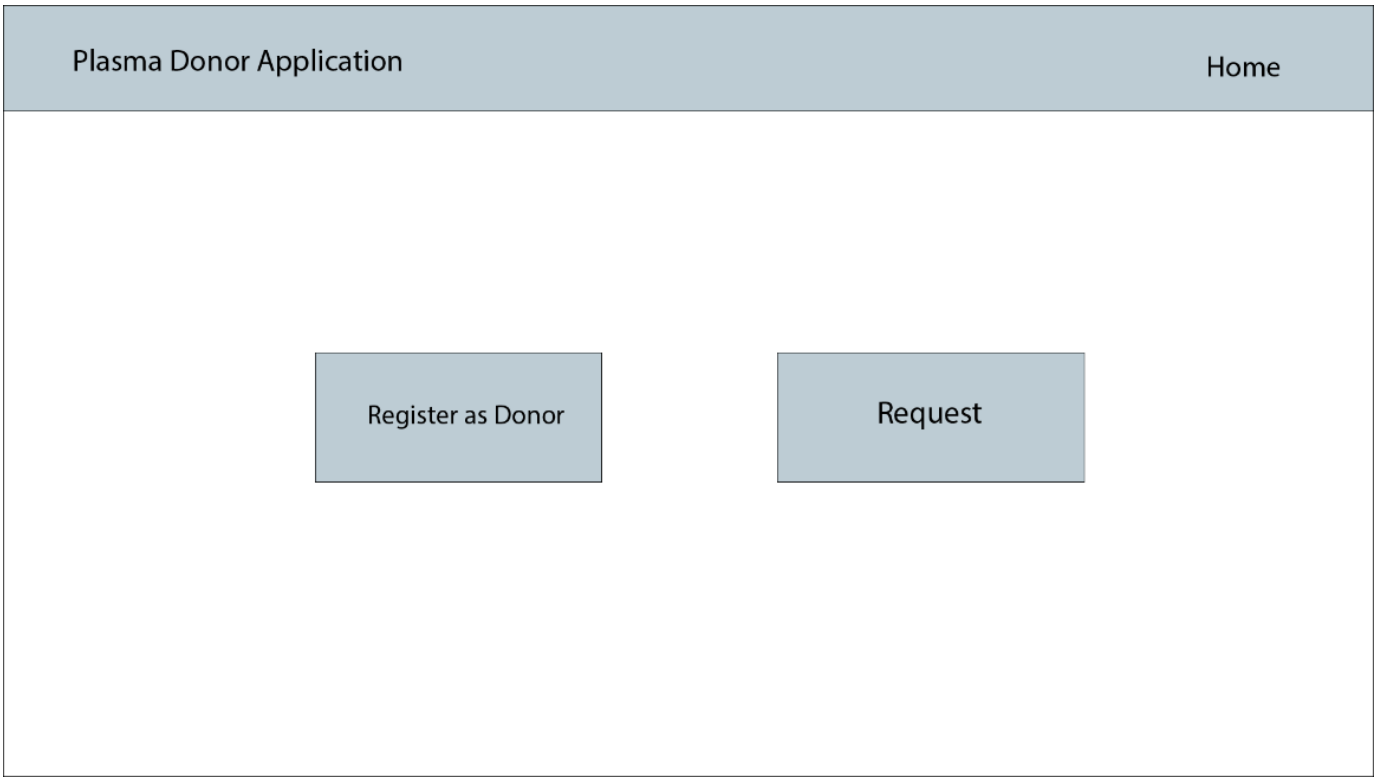


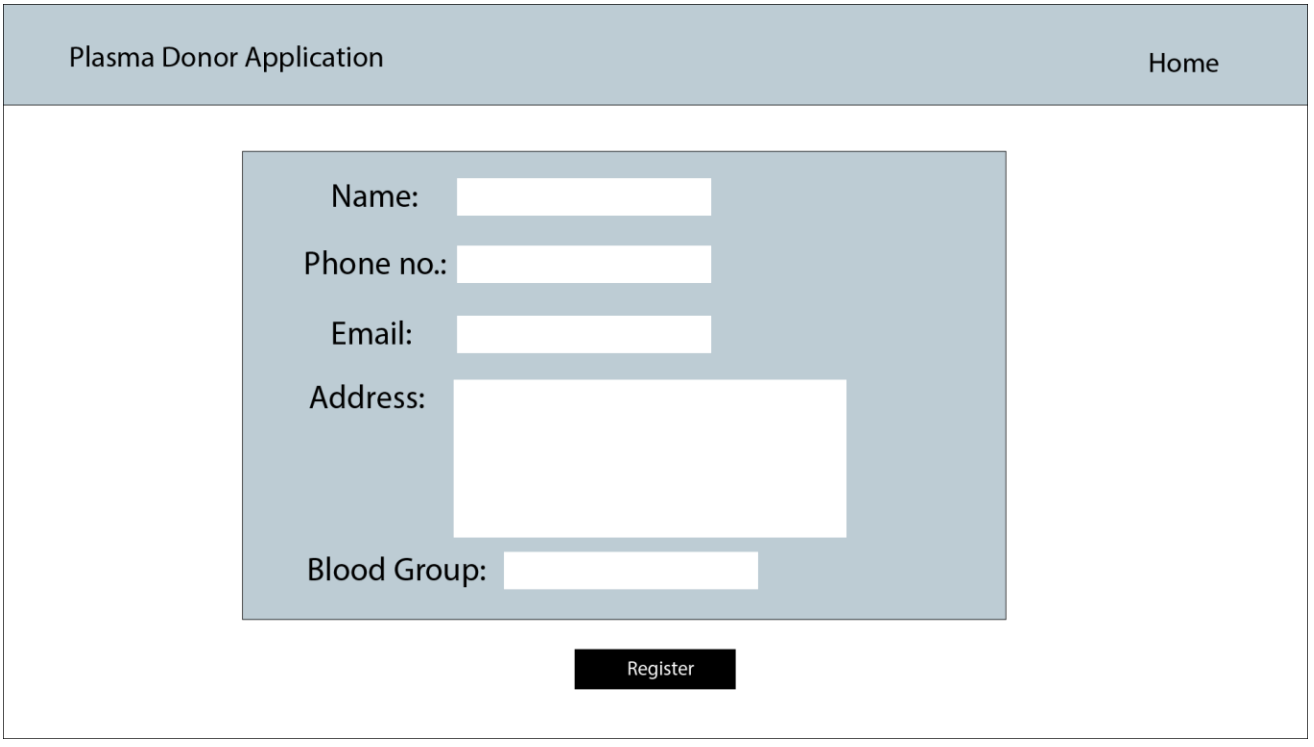
PROJECT WORKFLOW

- 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.

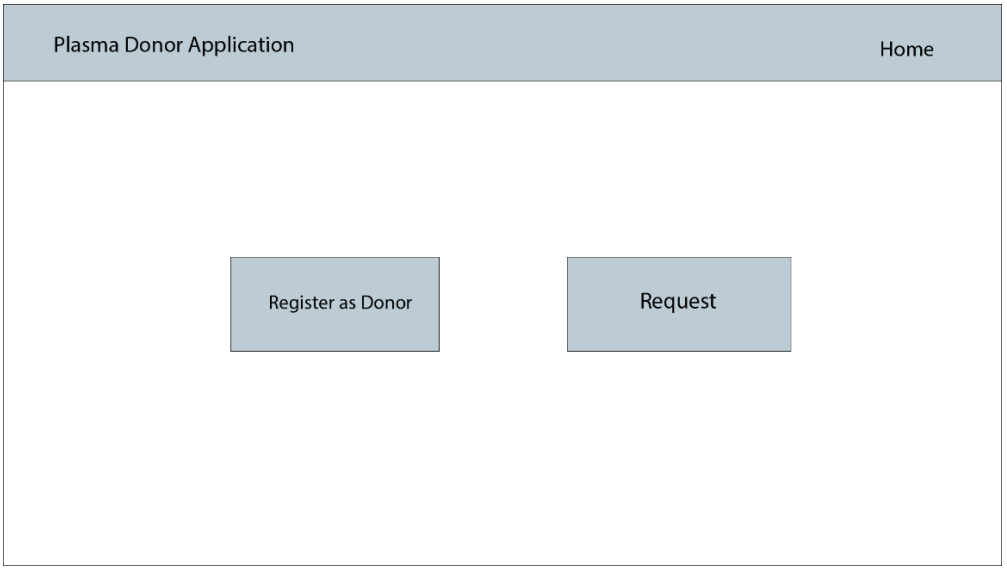
USER INTERFACE

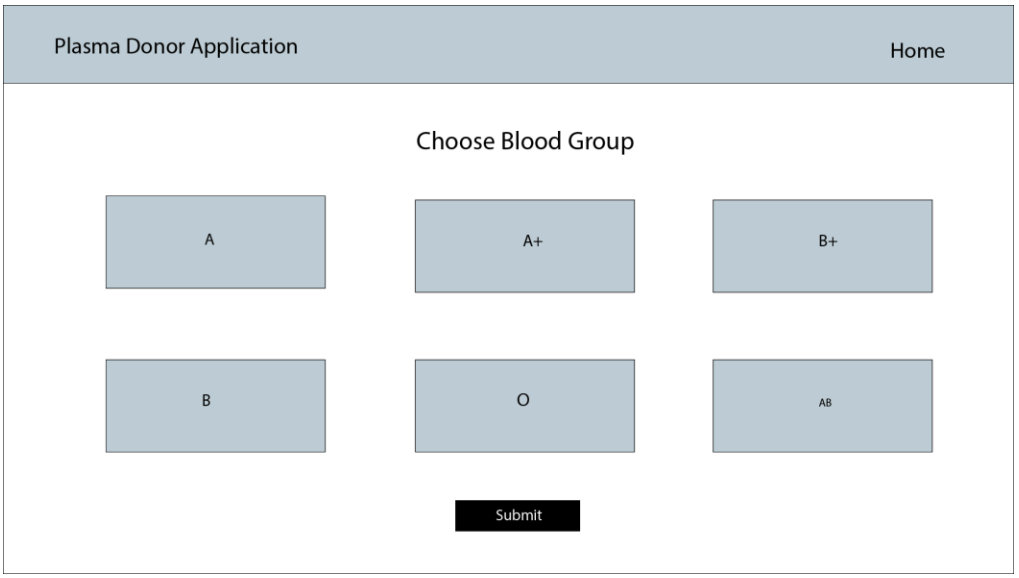
Donor:





Request:


Plasma Donor Application
Home
Register as Donor
Request


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