

Plasma donor application

IDEATION:

During pandemic and other diseases, the requirement of plasma becomes a very high priority and the donor count has become low. Saving the donor information and helping the required persons by notifying the current donors list, would be a very beneficial. This application allows user to interact with web application and it uses kubernetes clusters to host the application. It stores the data in the IBM D2 database server and it when the user requests for any donors it alerts all the donors through a mail sendgrid. This application is fully hosted on the IBM cloud service. It uses python as an backend through which the application runs it's backend process and it uses flask a python framework to communicate between the frontend and backend it allows the data entered in the frontend to store in the database and docker is an containerization platform which enables to package applications into containers and host it in the cloud. The user interacts with the web application and there would be two options for the user to register as a donor or the person requesting for plasma then the user registers according to their roles. Then they enter the details which are then stored in the database servers which are then use to send info/mail regarding the availability of the plasma donor.