HX8001

PROFESSIONAL FOR INNOVATION EMPLOYABILITY AND ENTREPRENEURSHIP

■ TEAM ID : PNT2022TMID23085

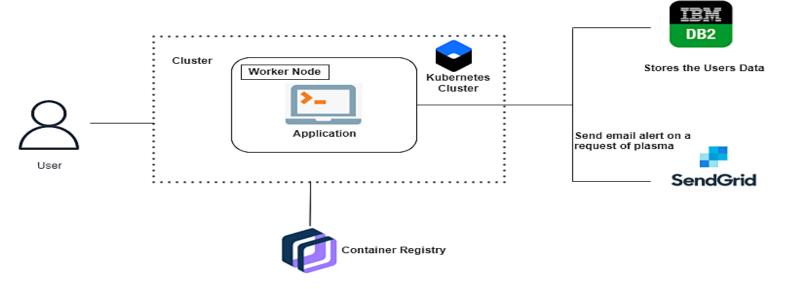
• DOMAIN: Cloud Application Development

■ TITLE : Plasma Donor Application

- TEAM LEADER:
- 1. Venmathee B T
- TEAM MEMBERS:
- 2. Durga Vishalini M
- 3. Priyanka V
- 4. Rithiha S K
- MENTOR NAME :
- 1. Dr.S.Ponmalar
- PROBLEM STATEMENT :

During the COVID 19 crisis, the requirement of plasma became a high priority and the donor count has become low. Saving the donor information and helping the needy by notifying the

current donors list, would be a helping hand. In regard to the problem faced, an application is to be built which would take the donor details, store them and inform them upon a request.



Project Design Phase-I Problem -Solution Fit Template

Date	01 October 2022
Team ID	PNT2022TMID23085
Project Name	Project - Plasma Donor Application

PROBLEM -SOLUTION FIT TEMPLATE:

S.No.	Parameter	Description	
0.	Problem Statement (Problem to be solved)	During the COVID 19 crisis, the requirement of plasma became a high priority and the donor count	
		has become low. Saving the donor information and	
		helping the needy by notifying the current donors	
		list, would be a helping hand. In regard to the	
		problem faced, an application is to be built which	
		would take the donor details, store them and inform	
		them upon a request.	
1.	Customer segment	Think about donating plasma if you have type AB	
		blood. Patients with any blood type can receive AB,	
		the only universal plasma. As a result, type AB	
		plasma transfusions can be administered right away	
		without wasting valuable time checking the patient's	
		blood type compatibility. Up to 13 times a year,	
		these types of plasma donations can be made every	
		28 days.	
2.	Problem/Pains	Donor finding is difficult	
		Difficult to match the donor with same blood	
		group	
		Donor and staff safety	
		Convalescent plasma.	

3.	Triggers to act	 Some people may feel allergic reactions while donating plasma. The needles might trigger reactions in people. In rare cases, people can experience lung damage and also some difficulty in breathing.
		In certain cases when needles are not
		sterilized properly infections like HIV and
		hepatitis can affect a person.
		If the needle is injected into a person who
		already has a disease and then the non-
		sterilized needle is injected into another
		person the blood carries infections
4.	Emotions	Two prosocial emotions that are of particular
		relevance for the efficacy of an acceptance message
		are gratitude and guilt. Considering accepting a
		potential blood transfusion should engender feelings
		of gratitude towards others who have previously
		donated blood and enhance a desire to repay an
		imagined debt through donating blood . While guilt,
		as a reparative social emotion, encourages
		atonement and sustained long-term cooperation
	Available Solution	dieases . These applications won't offer a preference selection
5.	Available Solution	option for pregnant women or older individuals
		under the current systems. If that's the case, it's
		done manually, however with our project we're
		improving it automatically to make it .
6.	Customer Limitations	It cannot auto verify user genuineness.
0.	2.3comor Emmanorio	 It requires an active internet connection.
		At times, donors may available at farthest
		distance consumes times to get connect with
		patient
		patient

7.	Behavior	Check availability: Availability of blood in the blood banks can be checked.
		Request blood: Request for the required blood can be made to the blood banks
		Update: The hospital/blood bank can update the status of their blood inventory
		Nearby Blood banks: Nearest blood banks can be viewed using Google Maps
8.	Channels of Behaviors	Online: To instill a sense of enthusiasm and joy among our audience, we try to collaborate with various schools, universities, corporates, institutions and local communities all over India to organise informative Stalls, Competitions, Nukkad Nataks, Quizes, and interactive sessions (both online and offline) with experts where attendees can interact with us and their doubts are duly addressed. This ensures that the vision of blood donation spreads far and wide and people realize the significance of blood donation. Offline: WHO recommends that all activities related to blood collection, testing, processing, storage and distribution be coordinated at the national level through effective organization and
		integrated blood supply networks. The national blood system should be governed by national blood policy and legislative framework to promote uniform implementation of standards and consistency in the quality and safety of blood and blood products
9.	Problem root/Causes	More likely, blood transfusion mistakes occur when incorrect blood is given to a patient. For instance, a blood sample may be mislabeled. The incorrect patient name may be marked on a blood sample, for example. Errors may also occur when a blood sample is marked with the incorrect blood type (O-negative, etc.).

10.	Our Solution	We use priority selection algorithm, where admin
		can identify the priority tags first among all other
		tags in its range and other tags are identified after
		that. So, the priority tag can get service immediately
		after they are identified where the other tags wait in
		a queue and get service later (i.e first priority
		towards pregnant women and for older people)
		If possible maintain a tie-up with REDCROSS
		and spread awareness will provides an added
		advantage.

Project Design Phase-I Proposed Solution Template

Date	24 September 2022
Team ID	PNT2022TMID23085
Project Name	Project – Plasma Donor Application
Maximum Marks	2 Marks

Proposed Solution Template:

Project team shall fill the following information in proposed solution template.

S.No.	Parameter	Description
1.	Problem Statement (Problem to be	During the COVID 19 crisis, the requirement
	solved)	of plasma became a high priority and the
		donor count has become low. Saving the
		donor information and helping the needy by
		notifying the current donors list, would be a
		helping hand. In regard to the problem faced,
		an application is to be built which would take
		the donor details, store them and inform
		them upon a request.
2.	Idea / Solution description	Our proposed system has the following
		idealation:
		 Tracking time interval and Set
		donation reminder
		 GPS tracking nearby donors.
		 Age filtering in accordance to
		priority
3.	Novelty / Uniqueness	Using priority selection algorithm, admin can
		identify the priority tags first among all other
		tags in its range and other tags are identified
		after that. So, the priority tag can get service
		immediately after they are identified where
		the other tags wait in a queue and get service
		later.
		If possible maintain a tie-up with REDCROSS
		and spread awareness will provides an added advantage.

4.	Social Impact / Customer Satisfaction	Unlock reward badges will boost our customers to use this application widely that bridges the gap between blood donors and patients.
5.	Business Model (Revenue Model)	There are many apps currently available in this regard But our solution,once developed well, has enough possiblity to safeguard the plasma receiver from various dieases due to blood donation
6.	Scalability of the Solution	Our proposed solution is very scalable is that in future there are lots of rooms for evolving our present model by adding data visualization using Artificial intelligence to enhance our system in upcoming years.