

## PROJECT DESIGN PHASE - I

Date	06 Nov 2022
TeamID	IBM-Project-11855-1659348680
Project Name	Plasma Donor Application
Maximum Marks	2 Marks

### PROPOSED SOLUTION :

S.NO	PARAMETER	DESCRIPTION
1.	Problem Statement (Problem to be solved)	Plasma is used for the treatment of many serious health problems. Therefore, there are blood drives asking people to donate blood and plasma. Plasma is utilized to treat different irresistible sicknesses and it is one of the most established strategies known as plasma treatment. Coronavirus emergency the necessity for plasma expanded radically as there was no immunization found to treat the contaminated patients, with plasma therapy the recovery rates were high, but the donor count was very low and, in such situations, it was very important to get information about the plasma donors. Saving the contributor data and talking about the ongoing givers would be some assistance as it can save time and assist the clients with finding the vital data about the contributors.

2.	Idea/Solution description	<p>This proposed system aims at connecting the donors &amp; the patients through an online application. By using this application, the users can either raise a request for plasma donation or requirements. The basic solution is to create a centralized system to keep track of upcoming as well as past Plasma Donation or therapy Events. The recommended solution is as follows: The application contains two roles:</p> <ul style="list-style-type: none"> <li>• Admin</li> <li>• User</li> </ul> <p><b>Admin:</b></p> <ul style="list-style-type: none"> <li>✓ Admin can log in using their credentials.</li> <li>✓ Admin can edit the request.</li> <li>✓ Admin can delete the request. Admin can add volunteers.</li> </ul> <p><b>User:</b></p> <ul style="list-style-type: none"> <li>✓ If the user wants to donate or receive, they must register with their personal details. After the successful registration of the user.</li> <li>✓ A successful registration email is sent to the user.</li> <li>✓ After successful registration user will be directed to the home page.</li> <li>✓ They will be asked to press whether they will be donors or receivers.</li> <li>✓ If the user is a donor, then he/she will fill out the donation interest form which includes their Name, blood group details, location, last time donated by date, phone number, and email id.</li> <li>✓ After filling out the donation form he/she will be redirected to the page in which he/she can download the e-certificate.</li> </ul>
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3.	Novelty / Uniqueness	<p>A User Interface is simple for users to understand. We can use the application anywhere anytime. The user immediately needs the plasma for their treatment, but the plasma is not available in nearby hospitals, then the user can use this application to raise a request and directly contact the donor, requesting them to donate the plasma. Hospitals can also raise request donors for donations. If somebody wants to donate blood and plasma but they don't know the way to donate, then they use this application which will simple to use and it will save the lives of many people. Today many of them have mobile phones they can install this application and use it to save the lives of people.</p>
4.	Social Impact / Customer Satisfaction	<p>We are living in a modern world, and everything can be accessed online. Even though there are many applications there is no proper application for plasma donation. Many of them wish to donate blood and plasma but they are unaware of donation and how they can donate. This application provides an opportunity to those who want to donate plasma. Donations of plasma are happening in many places many of them come forward to donate but it is not available at right time for use. Sometimes there is a shortage of plasma of a particular type. Additional facilities that we need are to access the patient's information quickly before plasma transfusion. To solve this issue software applications are employed with Cloud computing and Internet of Things tools which enable features such as information retrieval and continuous data tracking with analytics. This application avoids circulating wrong information. A single platform for maintaining genuine information and increasing the trust of participants</p>

		Involved in his activity.
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5.	Business Model (Revenue Model)	This application is accessible to everyone. Because of the trouble in finding givers who match a specific blood bunch, this application empowers clients to enlist individuals who wish to give plasma and keep their data in a data set. Nowadays the need for plasma increases. Anyone with basic knowledge can access this app. This can be used anywhere anytime.
6.	Scalability of theSolution	This application helps users to find plasma donors by sitting in homes instead of searching for donors everywhere. When there is an emergency then a plasma request to send to everyone. Once the donor is ready to donate receiver is notified about the donation. The receiver can contact the donor. With this app, donors can know their eligibility to donate and making it easier to locate suitable donors at right time.