Project Design Phase-II
Technology Stack (Architecture & Stack)

Date	14 October 2022
Team ID	PNT2022PMID49593
Project Name	Project – Plasma Donor Application
Maximum Marks	4 Marks

Technical Architecture:

The Deliverable shall include the architectural diagram as below and the information as per the table1 & table 2
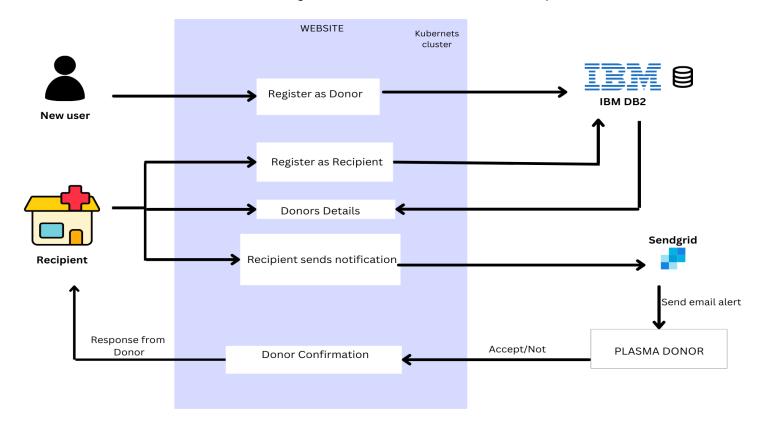
Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	User interact with application using form, login, Request notification	Python FLASK, HTML, CSS
2.	Registration (Donor)	Donors register in the application to Donate the plasma	Python FLASK, HTML, CSS, IBM DB2
3.	Registration (Recipient)	Recipients register in the application to get a Donors	Python FLASK, HTML, CSS, IBM DB2
4.	Notification Request	This sends the notification to the Donors	Python FLASK, HTML, CSS, IBM DB2
5.	SendGrid	Sends email alert on a request of plasma Donor	sendgrid
6.	Cloud Database	Database Service on Cloud	IBM DB2
7.	Kubernets cluster	Run Containerized application	IBM Kubernets

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Docker is used for Open Source Framework	DOCKER
2.	Scalable Architecture	It connected with Scalable Architecture	IBM DB2
3.	Availability	This application is anytime accessible	Python FLASK
4.	Performance	Record resource requests and save Registered information. Availability of application	IBM DB2