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

Date	05 October 2022
Team ID	PNT2022TMID54477
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
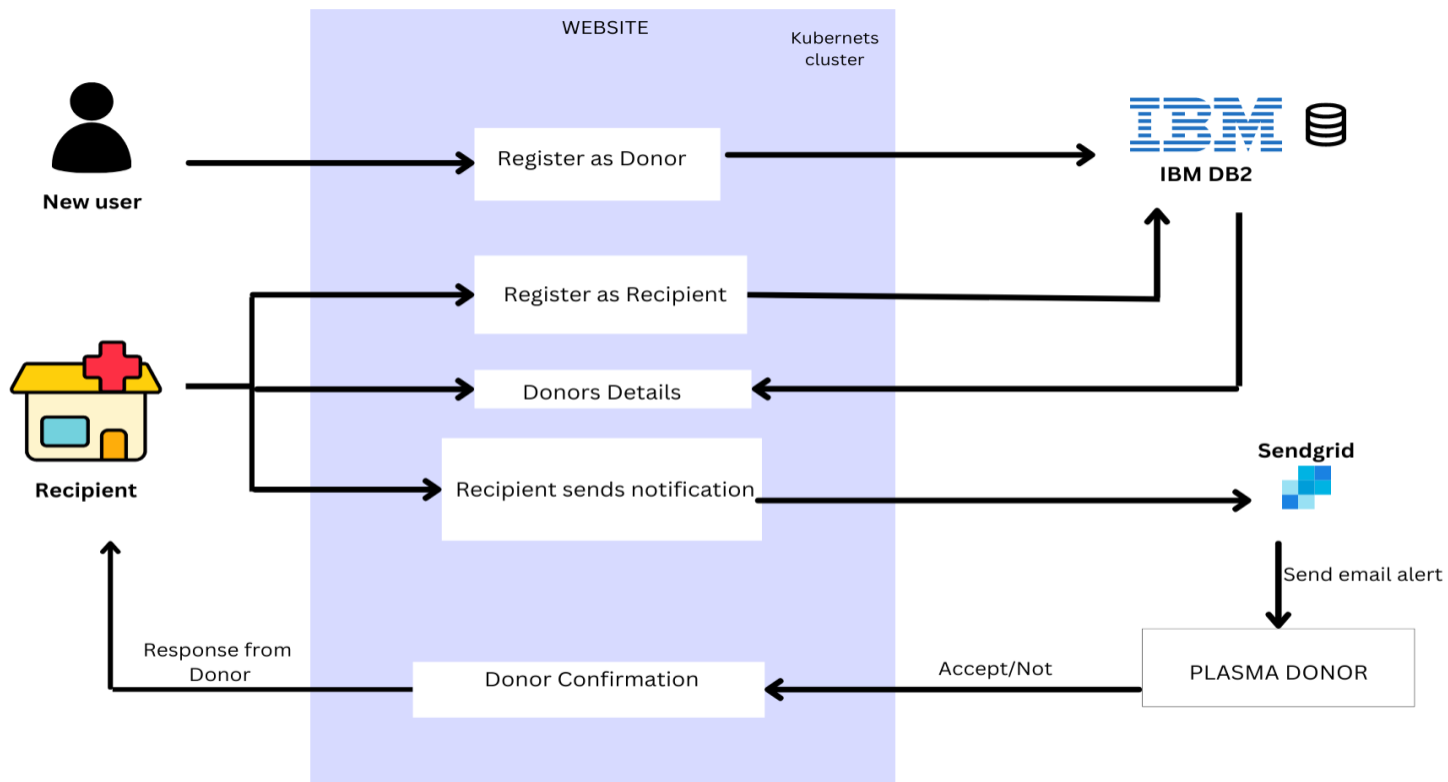
Table-1 : Components & Technologies:

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 theplasma	Python FLASK, HTML, CSS, IBM DB2
3.	Registration(Recipient)	Recipients register in the application to receive aDonor	Python FLASK, HTML, CSS, IBM DB2
4.	Notification	Sends the notification to the Donors	Python FLASK, HTML, CSS, IBM DB2
5.	SendGrid	Sends email alert to recipients	SendGrid
6.	Cloud Database	Database Service on Cloud	IBM DB2
7.	Kubernetes Database	Run Containerized application	IBM Kubernetes

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

S.No	Characteristics	Description	Technology
4.	Performance	Record resource requests and save registered information.	IBM DB2