

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

Date	16 October 2022
Team ID	PNT2022TMID00855
Project Name	Project – Plasma Donor Application

Technical Architecture:

The Deliverable shall include the architectural diagram as below and the information as per the table1 & table2

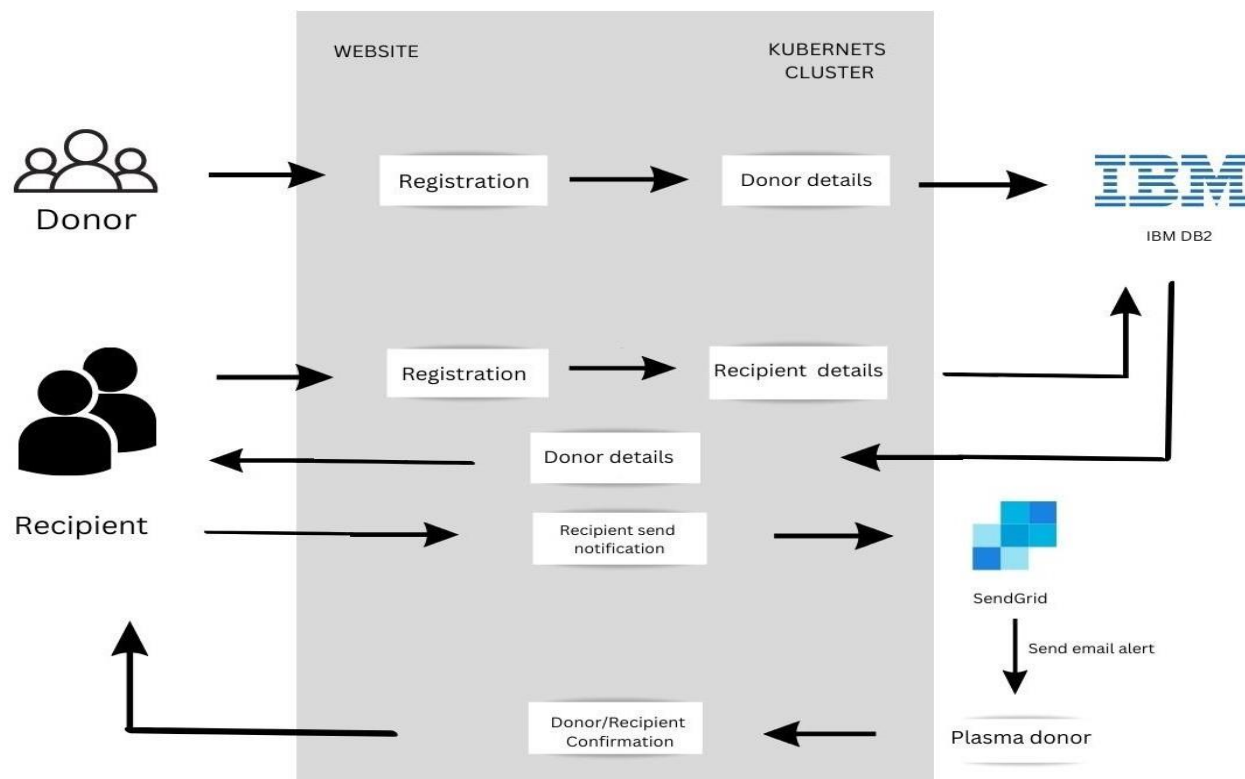


Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	User interact with application using form, login	HTML, CSS, Python FLASK
2.	Donor Registration	Donor register in the application and fill their details to donate plasma	HTML, CSS, Python FLASK, IBM DB2
3.	Recipient Registration	Recipient register in the application and fill their details and search for plasma	HTML, CSS, Python FLASK, IBM DB2
4.	Notification Request	Then it sends the notification to the donors.	HTML, CSS, Python FLASK, IBM DB2
5.	SendGrid	Sends email alert to the registered donor	SendGrid
6.	Cloud Database	Database Service on Cloud	IBM DB2
7.	Kubernetes	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
4.	Performance	Record resource requests and save registered information	IBM DB2