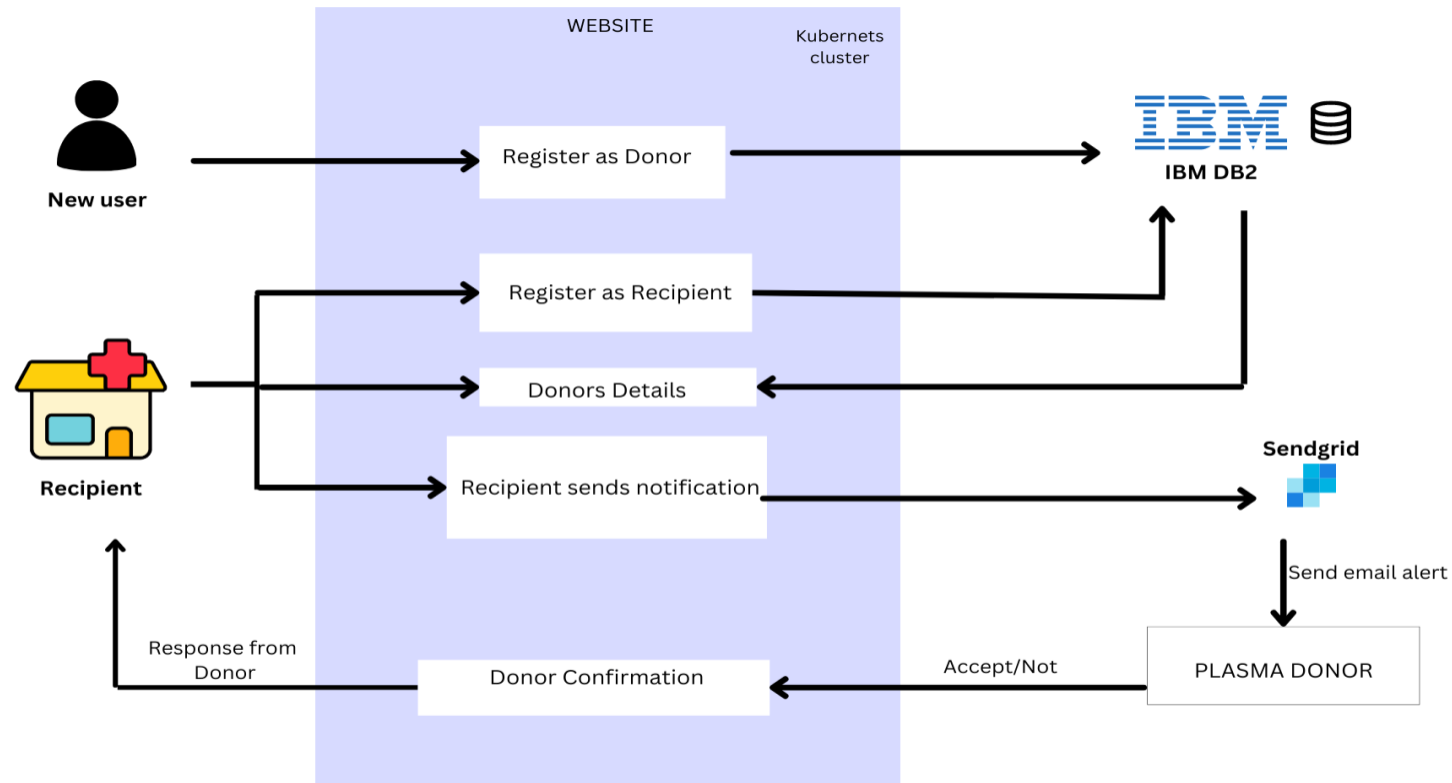


## Project Design Phase-II Technology Stack (Architecture & Stack)

Date	16 October 2022
Team ID	PNT2022TMID51971
Project Name	Plasma Donor Application
Maximum Marks	4 Marks

### Technical Architecture:



**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	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 cluster	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. Availability of application	IBM DB2