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

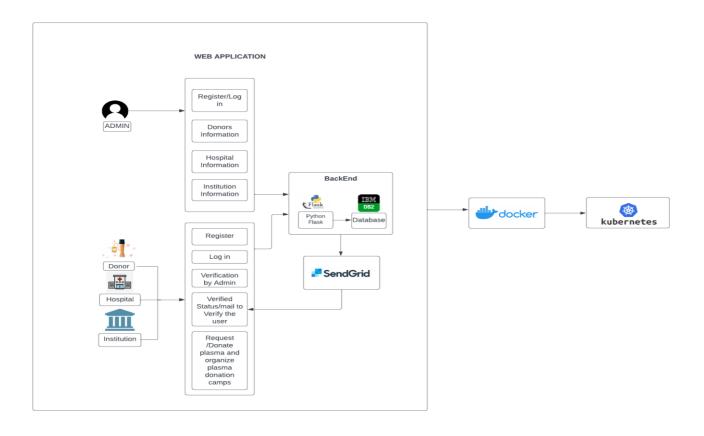| Date	18 October 2022
Team ID	PNT2022TMID27128
Project Name	Plasma Donor Application
Maximum Marks	4 Marks

Technical Architecture:

Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	User interface design to make user interact with application.	HTML,CSS, bootstrap
2.	Application Logic-1	Users log in and register to the application.	Python Flask
3.	Application Logic-2	User Registration is verified by Admin and Email verification is sent to user.	Send Grid
4.	Application Logic -3	To make interactive conversion for users to clear the doubts.	IBM Watson Assistant
5.	Database	To store and retrieve the data	IBM DB2 Database
6.	Infrastructure (Server / Cloud)	Helping to orchestrate different types of containers and deploying them to clusters	Kubernetes

Table-2 : Application Characteristics

Sl. No	Characteristics	Description	Technology
1.	Open-Source Frameworks	To build a light weight application	Flask
2.	To send Emails without mail server	To send email verification and configuration mail	Send Grid
3.	Availability	Runs everywhere and user friendly	Docker

| 4. | Performance | Orchestrate containerized application to run the cluster of hosts | Kubernetes |