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

Date	30 October 2022
Team ID	PNT2022TMID51943
Project Name	Plasma Donor Application
Maximum Marks	4 Marks

Technical Architecture:

The Donor information include the architectural diagram as below and the information as per the table1 & table 2

Example: Donor notification by current donor list in online application.

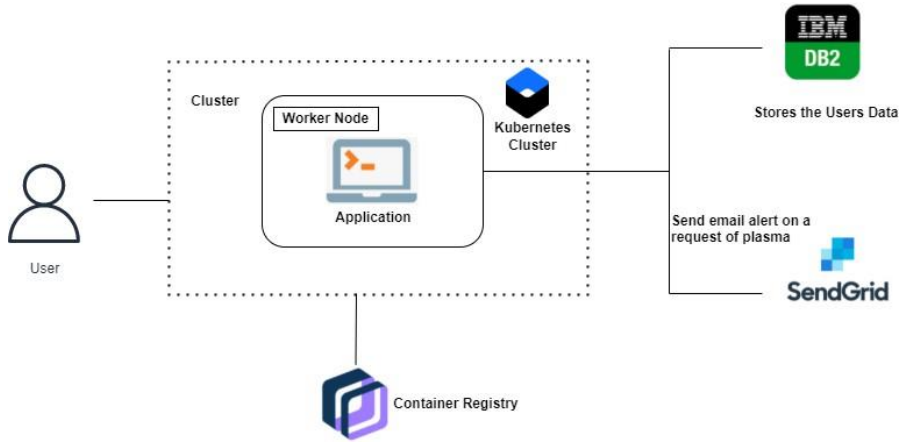

Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	How user interacts with application e.g. Web UI, Mobile App, Chatbot etc.	HTML, CSS, Python FLASK
2.	Developing Interface	Developing web application for the task	Java / Python
3.	Front end interface	Account access for donors.	IBM Watson STT service
4.	Chatbot Assistance	Conversational Interface	IBM Watson Assistant
5.	Database	Data Type, Configurations etc.	MySQL, NoSQL, etc.
6.	Cloud Database	Database Service on Cloud	IBM DB2, IBM Cloudant etc.
7.	File Storage	File storage requirements	IBM Block Storage or Other Storage Service or Local Filesystem
8.	System back end interface	Purpose of donor collection	Donor Recognition .
9.	Infrastructure (Server / Cloud)	Web Application Deployment on Local System / CloudLocal Server Configuration: Cloud Server Configuration :	Local, Cloud Foundry, Kubernetes, etc.

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	List the open-source frameworks used	Technology of Open-source framework
2.	Security Implementations	List all the security / access controls implemented, use of firewalls etc.	e.g. SHA-256, Encryptions, IAM Controls, OWASP etc.
3.	Scalable Architecture	It connected with scalable architecture ,Justify the scalability of architecture (3 – tier,Micro-services)	IBM Cloud
4.	Availability	This application is anytime accessible	RAID, Python FLASK
5.	Performance	Design consideration for the performance of the application , Record resource request and save registered information	DRAM or flash memory or DB2