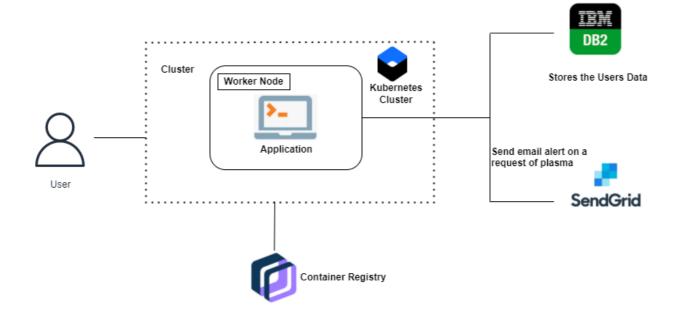
## Project Design Phase-II Technology Stack

Team - ID	PNT2022TMID53161	
Project Name	Plasma Donor Application	
Maximum Marks	4 Marks	

## **Technology Architecture**



## **Components & Technologies**

S. No	Component	Description	Technology
1.	User Interface	The interaction between the user and application e.g., Web UI, Mobile App, Chatbot etc.	HTML, CSS, JavaScript / Bootstrap etc.
2.	Application Logic-1	Framework used for design the application.	Python, Python - Flask
3.	Application Logic-2	Accessing the cloud and storing the details of the users both donors and patients.	IBM Cloud, IBM DB2
4.	Application Logic-3	Docker is an open-source platform for building, deploying, and managing containerized applications.	Docker
5.	Database	Data Type, Configurations etc.	SQL.
6.	Cloud Database	Database Service on Cloud	IBM Cloud, IBM DB2 etc.
7.	File Storage	File storage requirements	IBM Block Storage or Other Storage Service or Local Filesystem
8.	External API-1	They make it easier for developers to store, manage and deploy container images.	Container Registry
9.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud	Local, Cloud Foundry, Kubernetes, etc.

## **Application Characteristics**

S. No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Python – flask is an open-source framework used to develop the application.	Python - Flask
2.	Security Implementations	Container registry and Kubernetes Cluster are used for the encryption of data.	Container registry and Kubernetes Cluster
3.	Scalable Architecture	Kubernetes Cluster allows containers to run across multiple machines and environments.	Kubernetes Cluster
4.	Availability	Kubernetes Cluster provides all-time availability.	Kubernetes Cluster
5.	Performance	Docker improves the application performance.	Docker