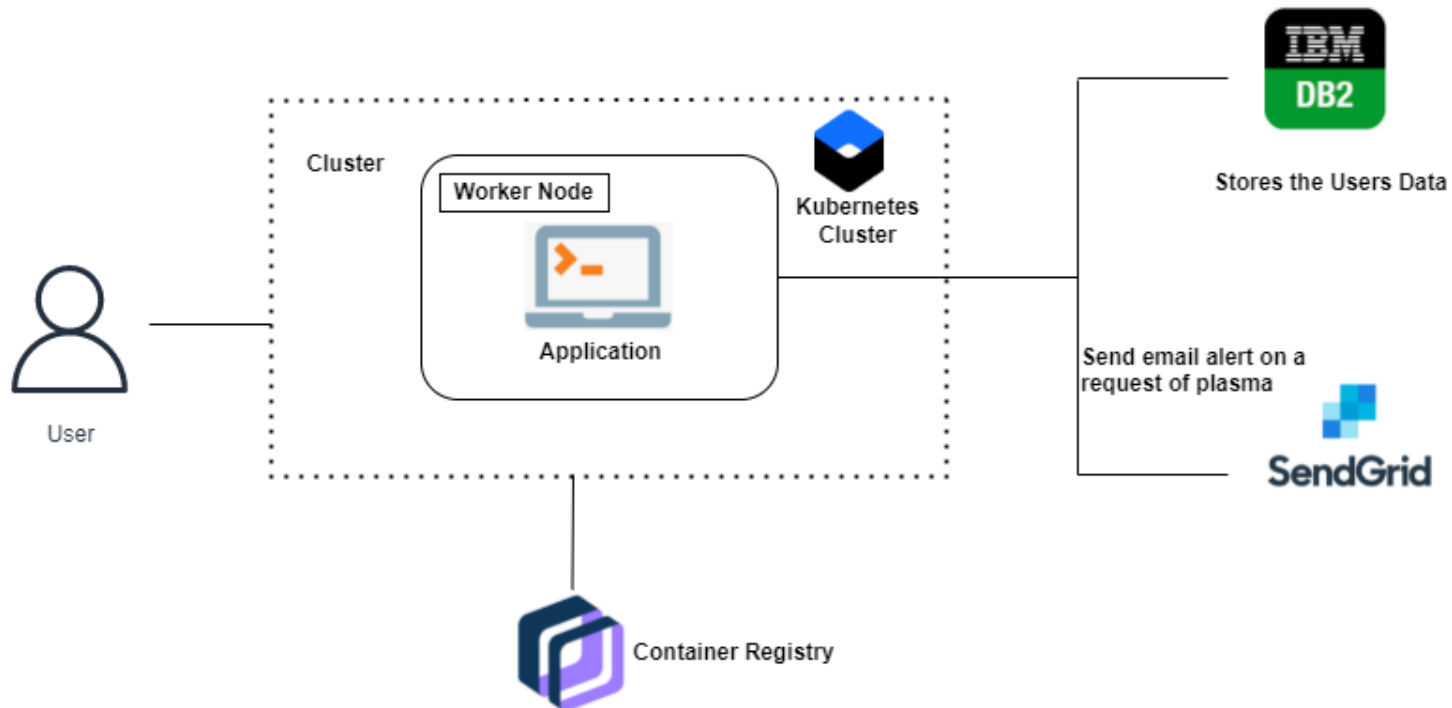


## Project Design Phase-II Technology Stack (Architecture & Stack)

Date	03 October 2022
Team ID	PNT2022TMID24580
Project Name	Project – Plasma Donor Application
Maximum Marks	4 Marks

### Technical Architecture:



**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, JavaScript
2.	Application Logic	Logic for a process in the application	Python flask
3.	Cloud Database	Database Service on Cloud	IBM DB2
4.	File Storage	File storage requirements	IBM Block Storage
5.	External API	Trigger notification	Send grid

**Table-2: Application Characteristics:**

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Backend is built using flask and frontend using html,Css,Javascript.	Html , Css , Javascript , Flask
2.	Security Implementations	Database storage and access would be limited.	IBM DB2
3.	Scalable Architecture	Docker containers allows multiple containers to be deployed at the same time.	Docker
4.	Availability	Multiple kubernetes containers will be deployed.	Kubernetes
5.	Performance	Backend would be able to handle multiple clients	Flask