

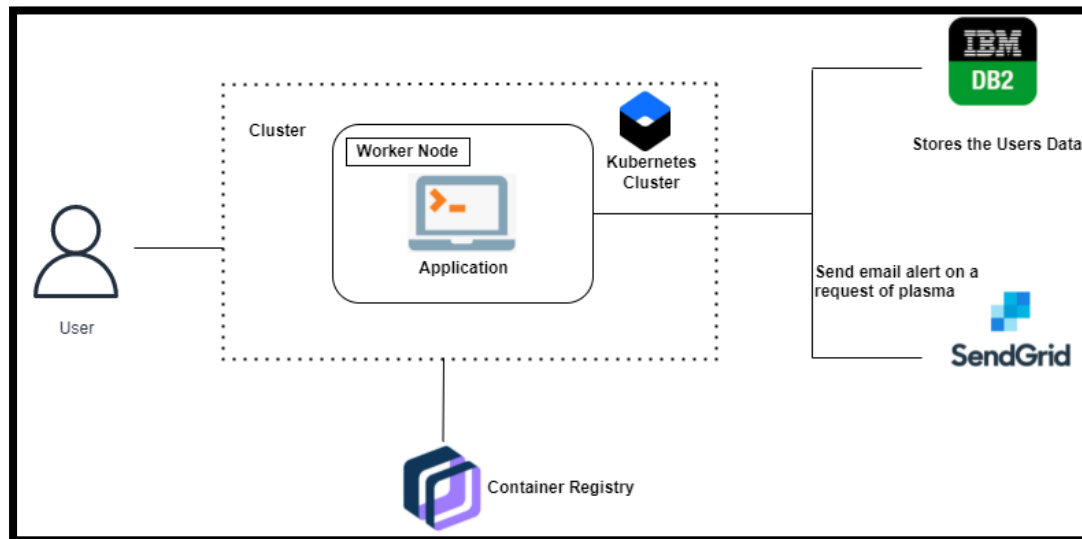
## Project Design Phase-II Technology Stack (Architecture & Stack)

Date	03October 2022
Team ID	PNT2022TMID45941
Project Name	Project – Plasma Donor Application
Maximum Marks	4 Marks

### Technical Architecture:

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

### Example: Order processing during pandemics for offline mode



### Guidelines:

1. Include all the processes (As an application logic / Technology Block)
2. Provide infrastructural demarcation (Local / Cloud)
3. Indicate external interfaces (third party API's etc.)
4. Indicate Data Storage components / services
5. Indicate interface to machine learning models (if applicable)

**Table-1 : Components & Technologies:**

S.No	Component	Description	Technology
1.	User Interface	How user interacts with application e.g. Web UI, Mobile App etc.	HTML, CSS, JavaScript / Angular Js / React Js etc.
2.	Application Logic-1	Logic for a process in the application	Java / Python, Flask, HTML, CSS
3.	Application Logic-2	Logic for a process in the application	IBM DB2, Flask, HTML, CSS
4.	Application Logic-3	Logic for a process in the application	IBM Watson Assistant
5.	Database	Data Type, Configurations etc.	MySQL.
6.	Cloud Database	Database Service on Cloud	IBM DB2
7.	File Storage	File storage requirements	Docker, Kubernetes
8.	External API-1	Purpose of External API used in the application	Sendgrid Connect to Backend
9.	External API-2	Purpose of External API used in the application	Connect to Third party application
10.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration: Cloud Server Configuration :	Local, Cloud Foundry, Kubernetes, etc.

**Table-2: Application Characteristics:**

<b>S.No</b>	<b>Characteristics</b>	<b>Description</b>	<b>Technology</b>
1.	Open-Source Frameworks	List the open-source frameworks used	Docker, Kubernetes
2.	Security Implementations	List all the security / access controls implemented, use of firewalls etc.	Transport Layer Security (TLS), Doctor Content Trust(DCT),
3.	Scalable Architecture	Justify the scalability of architecture (3 – tier, Micro-services)	Lambda
4.	Availability	Justify the availability of application (e.g. use of load balancers, distributed servers etc.)	kubernetes
5.	Performance	Design consideration for the performance of the application (number of requests per sec, use of Cache, use of CDN's) etc.	Send GRID Docker and kubernetes