

Project Phase –II

Technology Architecture

Date	22 October 2022
Team ID	PNT2022TMID52216
Project Name	Plasma Donor Application
Maximum Marks	4 Marks

Technology Architecture :

Project shall full fill the following information in this technology architecture.

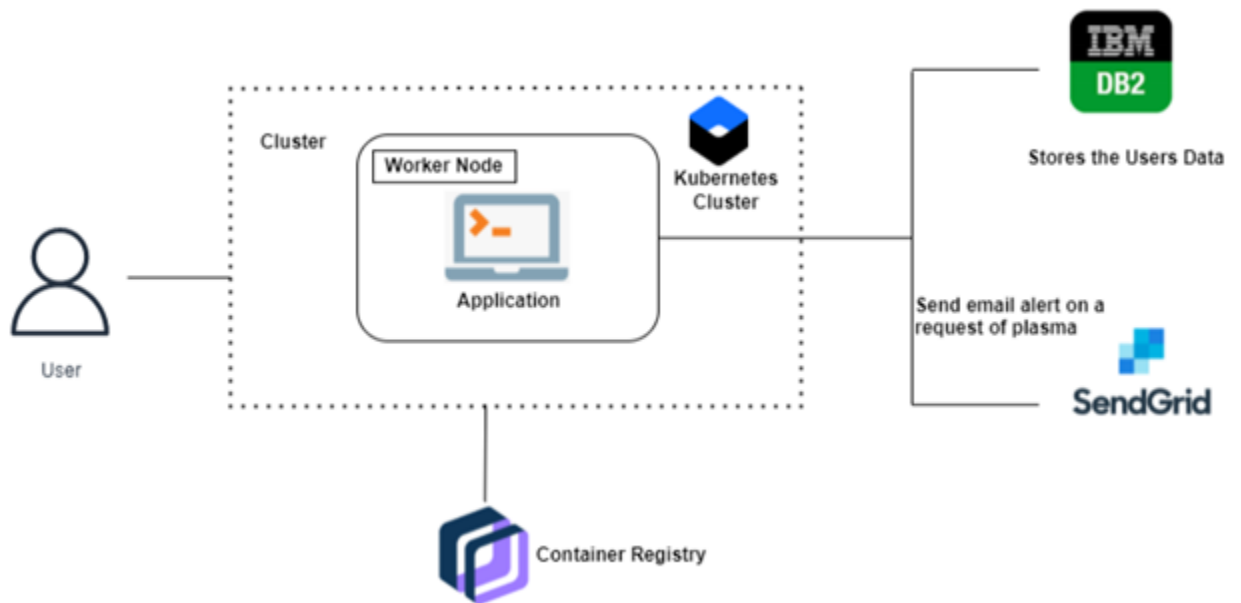


Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	The user register and login. See the UI.	HTML, CSS, Python Flask
2.	Data maintenance	Store , maintain ,retrieve the user's details	MYSQL
3.	Chatbot	Clarify user queries.	IBM Watson service
4.	Confirmation Email	Sending the confirmation email to users they registered successfully	SendGrid
5.	Cloud Database	Cloud database to store plasma information and View Plasma information	IBM DB2
6.	File Storage	File storage requirements	IBM Block Storage
7.	Infrastructure (Server / Cloud)	To deploy the application on Local System	Kubernetes

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Python Flask frameworks is used	Python Flask
2.	Security Implementations	Mandatory Control(MAC) and kubernetes is used	SHA-256, Encryptions, IAM Controls,OWASP etc
3.	Scalable Architecture	3-Tier Architecture is used	Webserver-HTML,CSSapplication server-python flask,database server-IBM DB2
4.	Availability	Using Load balancer to distribute network traffic across servers	IBM Load balancer
5.	Performance	User friendly UI Request and response is faster	IBM content delivery network