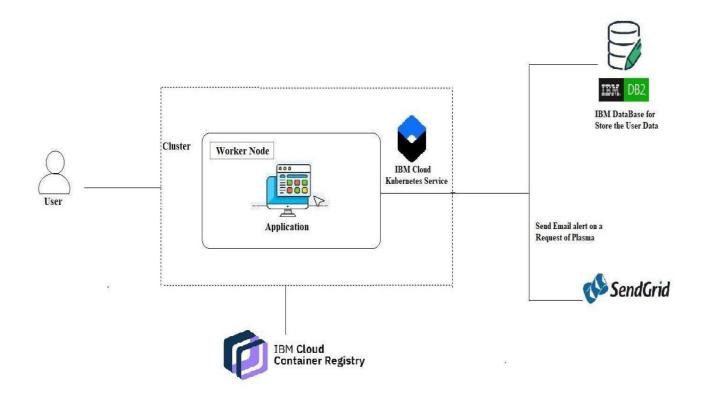
## PROJECT DESIGN PHASE – II TECHNOLOGY STACK ( ARCHITECTURE AND STACK )

Date	03 Nov 2022	
TeamID	IBM-Project-11855-	
	1659348680	
Project Name	Plasma Donor Application	
Maximum Marks	2 Marks	

## **TECHNICAL ARCHITECTURE:**



**TABLE-1: COMPONENTS AND TECHNOLOGIES:** 

S.	COMPONENT	DESCRIPTION	TECHNOLOGY	
NO				
1	Website	Donor can proceed the website to register and patients can use them to post a request.	HTML, CSS, JavaScript	
2	Docker	Service for storing the private container images	Container Registry	
3	Kubernetes	Manage the complete process in the stable state If any software crash it automatically restart the work	Kubernetes	
4	DB2	Data types are String, Numeric, Date, time, andtimestamp distinct types.  Act_ sortmem_ limit, auto_ del_ rec _ obj, auto_ maintConfiguration .	MySQL	
5	Cloud DB2	A fully managed cloud database with AI capabilities that keep our website running 24*7.		
6	SMTP Provider	Sends email alert on a request of plasma by the patients.	SendGrid	
7	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server	Local, Cloud Foundry, Kubernetes, etc.	
		Configuration: Anaconda Cloud Sever Configuration: IBM cloud		

## **TABLE-2: APPLICATION CHARACTERISTICS:**

S. NO	CHARACTERISTICS	DESCRIPTION	TECHNOLOGY
1.	Open- Source Framework s	Cloud Stack, Eucalyptus. Open Nebula, App Scale, Docker.	Docker
2.	Security Implementations	Authentication and password management Accountability to authorize and monitor the use anonymous accounts and to remove	Encryptions, Secure dAuthorization.
3.	Scalable Architecture	To expand our server capacity, memory, or disc space	
4.	Availability	The administrator needs tolook up the stockavailability in the database	Docker
5.	Performance	Speed up the webpage Site optimization based ondata analysis.	Kubernetes