Technology Stack (Architecture & Stack)

Project Name : Plasma Donor Application
Team ID: PNT2022TMID02871

TECHNICAL ARCHITECTURE:

The Deliverable shall include the architectural diagram as below and the information as per the table1 & table 2
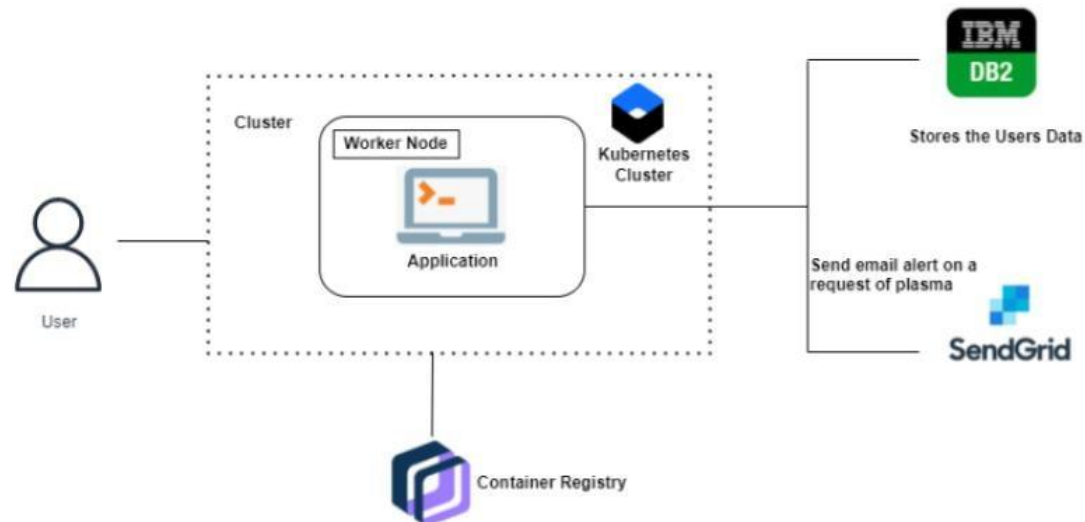
Table-1: Components & Technologies:

S. No	Component	Description	Technology
1.	User Interface	How user interacts with application using our web user interface and mobile application.	HTML, CSS, JavaScript
2.	Application Logic-1	Logic for a process in the application	Python
3.	Application Logic-2	Logic for a process in the application	IBM Watson Assistant
4.	Database	Data Type, Configurations etc.	MySQL, NoSQL, etc.
5.	Cloud Database	Database Service on Cloud	IBM DB2, IBM Cloudant etc.
6.	File Storage	File storage requirements	IBM Block Storage or Other Storage Service or Local File system
7.	External API-1	To manage docker images, perform vulnerability etc.	IBM container registry
8.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration: Cloud Server Configuration:	Local, Cloud Foundry, Kubernetes, etc.

Table-2: Application Characteristics:

S. No	Characteristics	Description	Technology
1.	Open-Source Frameworks	List the open-source frameworks used	IBM cloud Kubernetes service
2.	Security Implementations	List all the security / access controls implemented, use of firewalls etc.	Encryptions, IAM Controls, OWASP etc.
3.	Scalable Architecture	scalability of architecture (3 – tier, Micro-services)	3 Tier Architecture
4.	Availability	availability of application (e.g. use of load balancers, distributed servers etc.)	Kubernetes
5.	Performance	user friendly, request and response are faster	IBM cloud delivery network