

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

Date	12 NOV 2022
Team ID	PNT2022TMID02892
Project Name	Plasma Donor Application
Maximum Marks	4 Marks

Technical Architecture:

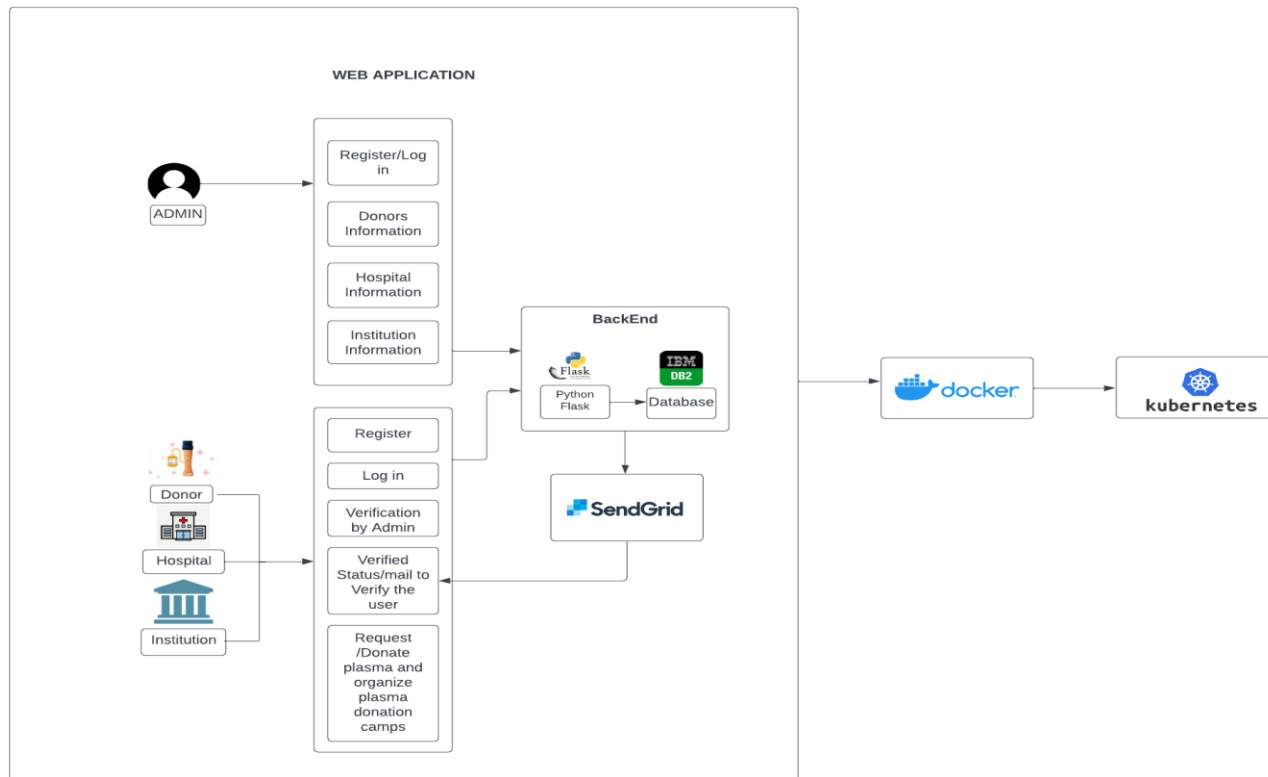


Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	User interface design to make user interact with application.	HTML,CSS, bootstrap
2.	Application Logic-1	Users log in and register to the application.	Python Flask
3.	Application Logic-2	User Registration is verified by Admin and Email verification is sent to user.	Send Grid
4.	Application Logic -3	To make interactive conversion for users to clear the doubts.	IBM Watson Assistant
5.	Database	To store and retrieve the data	IBM DB2 Database
6.	Infrastructure (Server / Cloud)	Helping to orchestrate different types of containers and deploying them to clusters	Kubernetes

Table-2 : Application Characteristics

Sl. No	Characteristics	Description	Technology
1.	Open-Source Frameworks	To build a light weight application	Flask
2.	To send Emails without mail server	To send email verification and configuration mail	Send Grid
3.	Availability	Runs everywhere and user friendly	Docker

4.	Performance	Orchestrate containerized application to run the cluster of hosts	Kubernetes
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