

Project Design Phase-II

Technology Stack (Architecture & Stack)

Date	18 October 2022
Team ID	PNT2022TMID42213
Project Name	Project – Plasma Donor Application
Maximum Marks	4 Marks

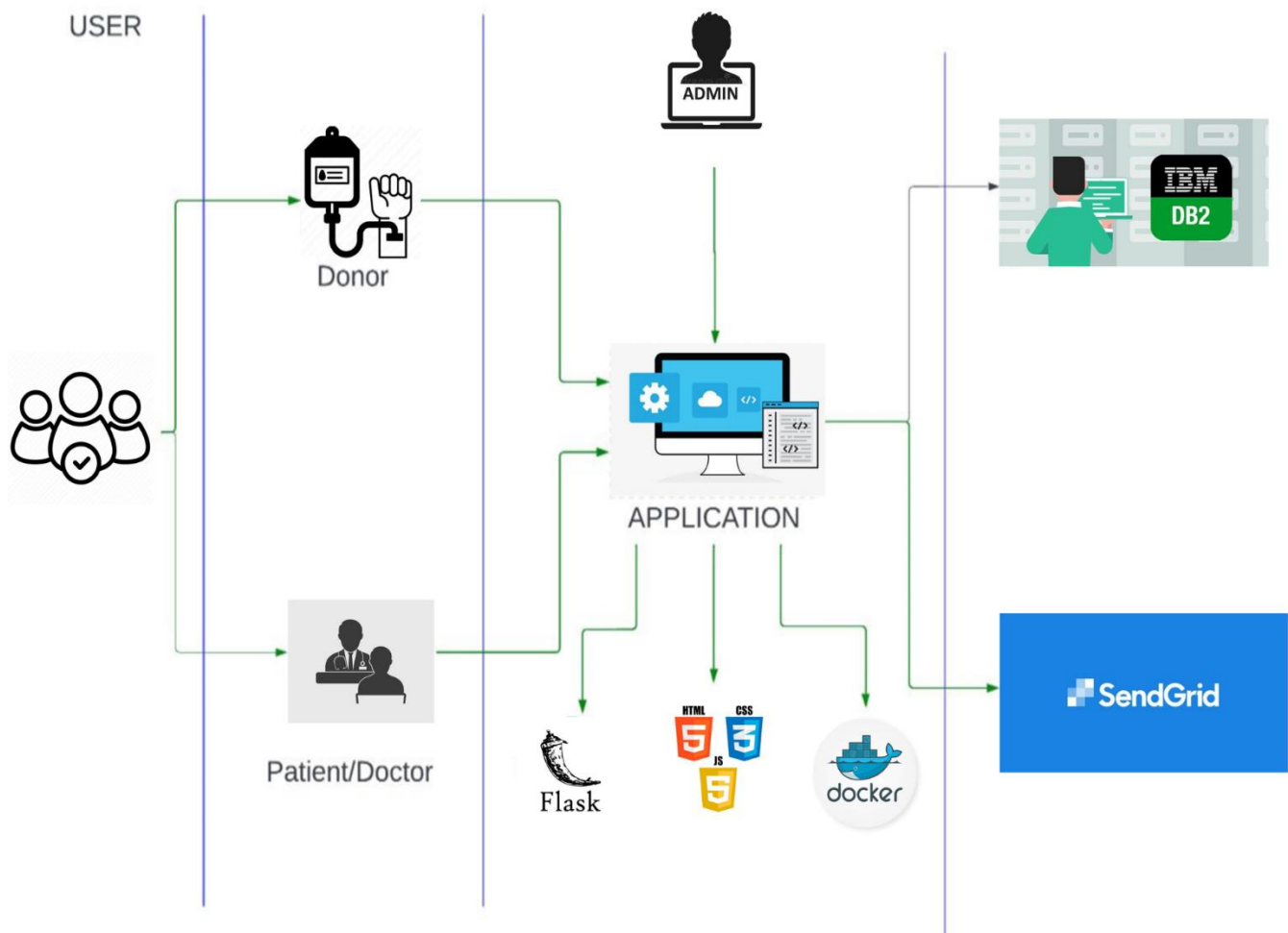


Table-1: Components & Technologies:

SNO	Component Description	Description	Technology
1	User Interface	The interaction between the user and application e.g., Web UI, Mobile App, Chatbot.	HTML, CSS, JavaScript/ Bootstrap etc.
2	Application Logic-1	Framework used for design the application.	Python, Python - Flask
3	Application Logic-2	Accessing the cloud and storing details of the users both donors and patients.	IBM Cloud, IBM DB2
4	Application Logic-3	Docker is an open-source platform for building, deploying, and managing containerized application	Docker
5	Database	Data Type, Configurations etc.	SQLite
6	Cloud Database	Database Service on Cloud	IBM Cloud and IBM DB2
7	File Storage	File storage requirements	IBM Block Storage or Storage Service or Local Filesystem

Table-2: Application Characteristics:

S.no	Characteristics	Description	Technology
1	Open-Source Framework	Python – flask is an open-source framework used to develop the application.	Python – flask is an open-source framework used to develop the application.
2	Security Implementation	Container registry and Kubernetes Cluster are used for encryption of data.	Container registry and Kubernetes Cluster
3	Scalable Architecture	Kubernetes Cluster allow containers to run across the machines and environments.	Kubernetes Cluster
4	Availability	Kubernetes Cluster provides all time availability.	Kubernetes Cluster
5	Performance	Docker improves the application performance.	Docker