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

Date	03 October 2022
Team ID	PNT2022TMID46887
Project Name	Project - Plasma Donor Application
Maximum Marks	4 Marks

Technical Architecture:

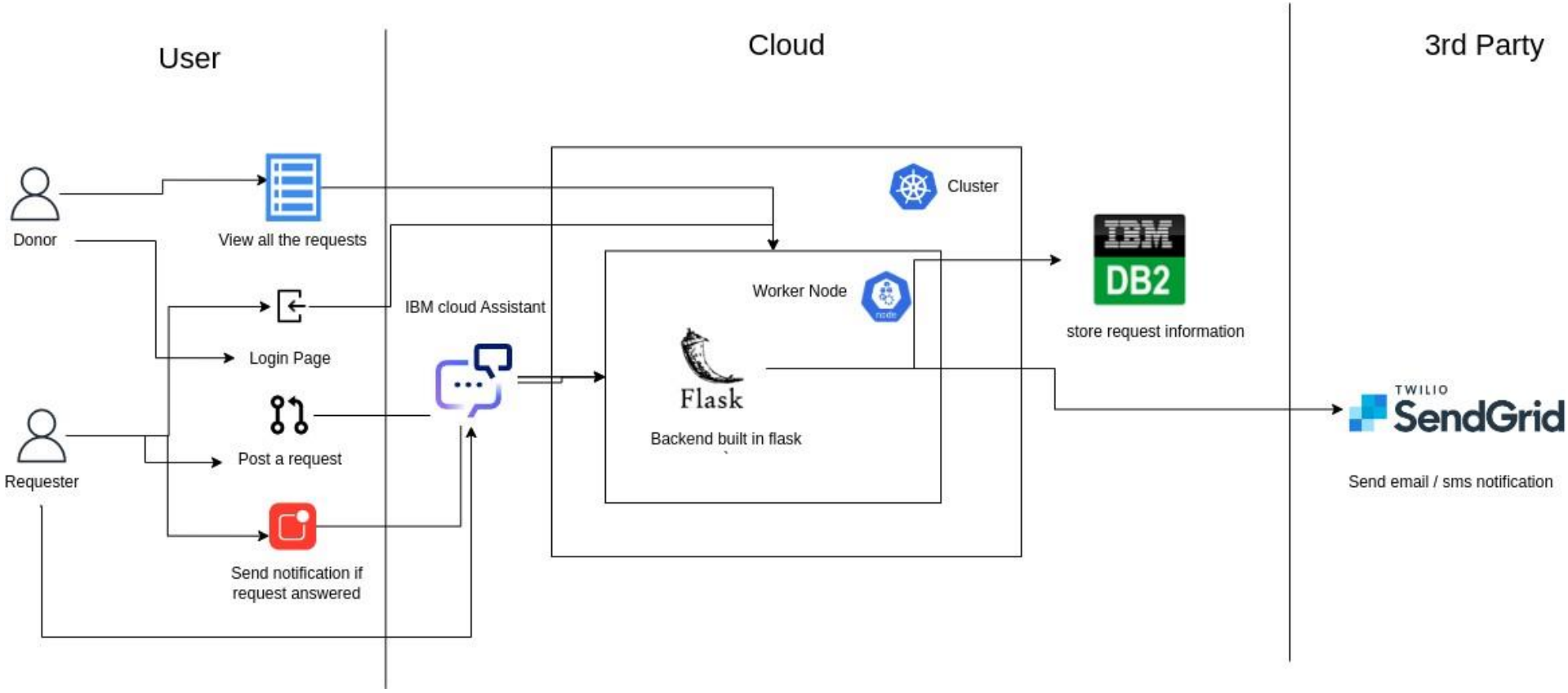

Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	How user interacts with application e.g. Web UI, Mobile App, Chatbot etc.	HTML, CSS, JavaScript
2.	Application Logic-1	Logic for a process in the application	Python Flask
3.	Application Logic-3	Logic for a process in the application	IBM Watson Assistant
4.	Cloud Database	Database Service on Cloud	IBM DB2
5.	File Storage	File storage requirements	IBM Block Storage / Object Storage
6.	External API-1	Trigger Notification	Sendgrid
7.	External API-2	To authenticate email address	Google API

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Backend is built using flask and frontend using javascript	javascript , flask
2.	Security Implementations	Database storage and access would be limited	IBM DB2
3.	Scalable Architecture	docker containers allows multiple containers to be deployed at same time	docker
4.	Availability	Multiple Kubernetes containers will be deployed	Kubernetes
5.	Performance	Backend would be able to handle multiple clients	Flask