

Project Design Phase-II

Technology Stack (Architecture & Stack)

Date	17 October 2022
Team ID	PNT2022TMID03517
Project Name	Plasma Donor Application
Maximum Marks	4 Marks

Technical Architecture:

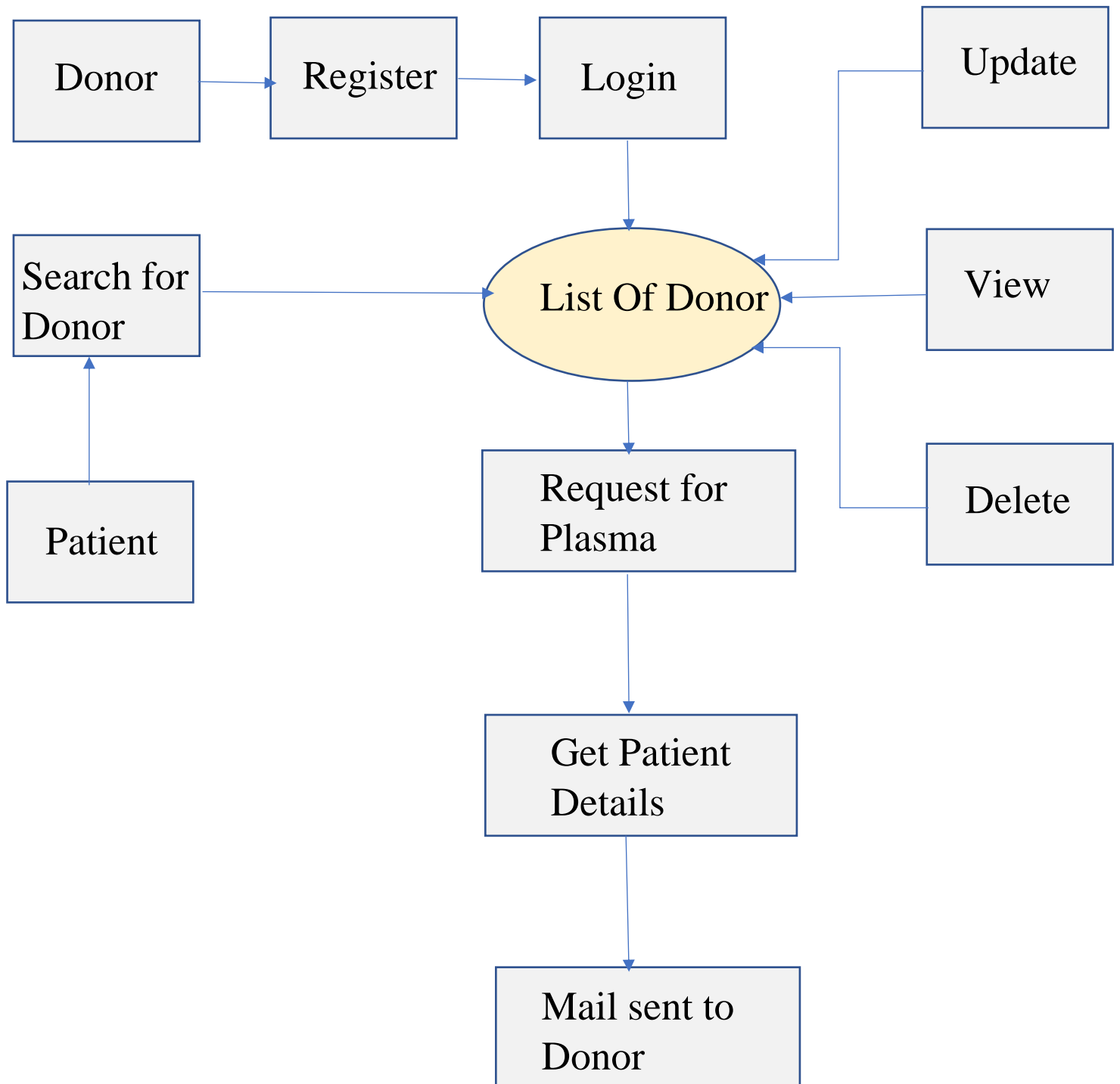


TABLE-1: COMPONENTS & TECHNOLOGIES:

S. NO	COMPONENT	DESCRIPTION	TECHNOLOGY
1.	User Interface	User interacts with application e.g., Mobile App, Web UI, etc.	JavaScript, HTML, CSS
2.	Application Logic-1	Logic required for a process in the application	Python / Java
3.	Application Logic-2	Logic required for a process in the application	IBM Watson STT
4.	File Storage	File Storage Requirements	Local Filesystem or Other Storage Service or IBM Block Storage
5.	Cloud Database	Database Services on Cloud	IBM Cloudant, IBM DB2, etc.
6.	Database	Configurations, Data Types, etc.	NoSQL, MySQL, etc.
7.	Infrastructure (Server / Cloud)	Cloud Server Configuration / Application Deployment on the Local System	Kubernetes, Local, Cloud Foundry, etc.

TABLE-2: APPLICATION CHARACTERISTICS:

S. NO	CHARACTERISTICS	DESCRIPTION	TECHNOLOGY
1.	Scalable Architecture	Justify the scalability of architecture (Micro-services, 3 – tier)	Technologies used
2.	Security Implementations	Access controls implemented, use of firewalls / List all the security, etc.	OWASP, Encryptions, SHA-256,, IAM Controls, etc.
3.	Performance	Design considerations for the performances of the application (use of CDN's, number of requests per sec, use of Cache) etc.	Technologies used
4.	Open-Source Frameworks	List the open-source frameworks used	Technology of Open source framework
5.	Availability	Justify the availability of application (e.g., distributed servers, use of load balancers, etc.)	Technologies used