Project Design Phase-II

Technology Stack

Team ID	PNT2022TMID21590
Project Name	Plasma Donation Application

Technical Architecture:

The Deliverable shall include the architectural diagram as below and the information as per the tables.

Reference: https://lucid.app/lucidchart/c64ae618-eb3f-48a3-88e9-f1ba1749f382/edit?beaconFlowId=309663B746BDD1EE&invitationId=inv_92c16dca-bba4-4e3c-9d04-cd4c08a48417&page=0_0#

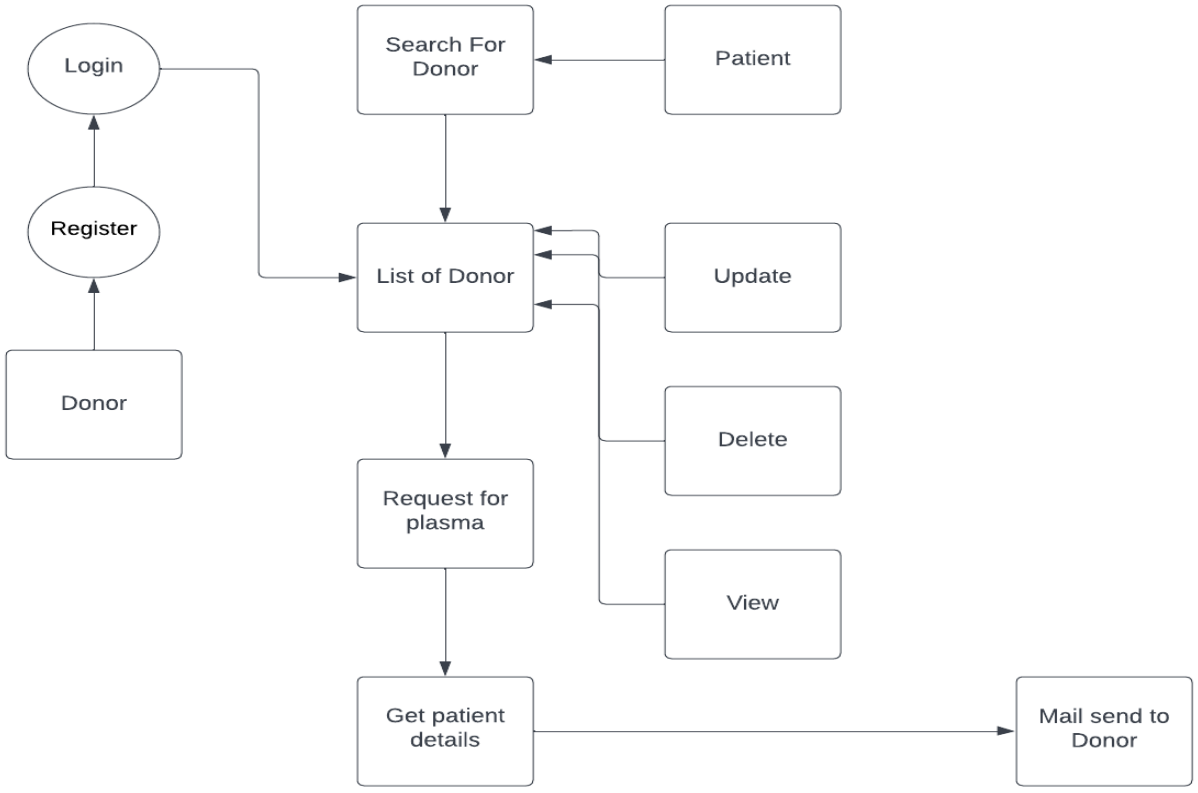

Table-1: Components & Technologies:

S. No	Component	Description	Technology
1	User Interface	How that the user interacts with application e.g.,Web UI, Mobile App etc.	HTML, CSS, JavaScript
2	Application Logic-1	Logics for a process in the application	Java / Python
3	Application Logic-2	Logics for a process in the application	IBM Watson STT
4	Database	Data Types, Configurations etc.	MySQL, NoSQL, etc.
5	Cloud Database	Database Services on Cloud	IBM DB2, IBM Cloudant etc.
6	File Storage	File storage requirements	IBM Block Storage or Other Storage Service or Local Filesystem
7	Infrastructure (Server / Cloud)	Application Deployment on the Local System / CloudServer 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	Technology of Opensource framework
2.	Security Implementations	List all the security / access controls implemented,use of firewalls etc.	e.g., SHA-256, Encryptions, IAMControls, OWASP etc.
3.	Scalable Architecture	Justify the scalability of architecture (3 – tier, Micro-services)	Technologies used
4.	Availability	Justify the availability of application (e.g., use ofload balancers, distributed servers etc.)	Technologies used
5.	Performance	Design considerations for the performances of the application (number of requests per sec, use ofCache, use of CDN’s) etc.	Technologies used