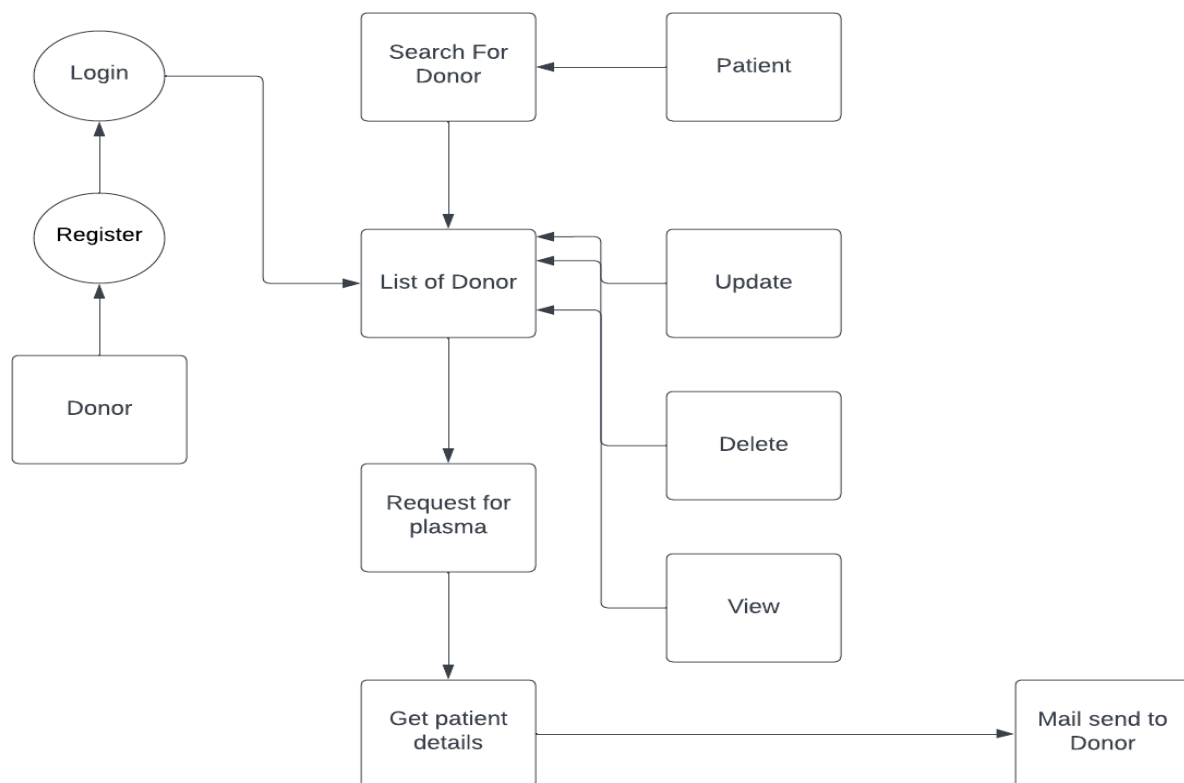


**Project Design Phase-II**  
**Technology Stack (Architecture & Stack)**

Team ID	PNT2022TMID012046
Project Name	Plasma Donor Application
Maximum Marks	2 Marks

**Technical Architecture:**



**Table-1 : Components & Technologies:**

S. NO	COMPONENT	DESCRIPTION	TECHNOLOGY
1	Website	Donors can proceed to the website to register and patients can use them to post a request.	HTML, CSS, JavaScript
2	Docker	Service for storing the private container images	Container Registry
3	Kubernetes	Manage the complete process in the stable state If any software crash it automatically restart the work	Kubernetes
4	DB2	Data types are String, Numeric, Date, time, and timestamp distinct types.  Act sort mem limit, autodelrecobj, auto main configuration .	MySQL
5	Cloud DB2	A fully managed cloud database with AI capabilities that keep our website running 24*7.	IBM DB2
6	SMTP Provider	Sends email alerts on a request of plasma by the patients.	SendGrid
7	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration: Anaconda Cloud Server Configuration: IBM cloud	Local, Cloud Foundry, Kubernetes, etc.

**Table-2: Application Characteristics:**

S. NO	CHARACTERISTICS	DESCRIPTION	TECHNOLOGY
1.	Open-Source Frameworks	Cloud Stack, Eucalyptus. Open Nebula, App Scale, Docker.	Docker
2.	Security Implementations	Authentication and password management Accountability to authorize and monitor the use anonymous accounts and to remove	Encryptions, Secure d Authorization.
3.	Scalable Architecture	To expand our server capacity, memory, or disc space	IBM DB2
4.	Availability	The administrator needs to look up the stock availability in the database	Docker
5.	Performance	Speed up the webpage Site optimization based on data analysis.	Kubernetes