

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

Date	03 October 2022
Team ID	PNT2022TMID27815
Project Name	Project – Plasma Donor Application
Maximum Marks	4 Marks

Technical Architecture:

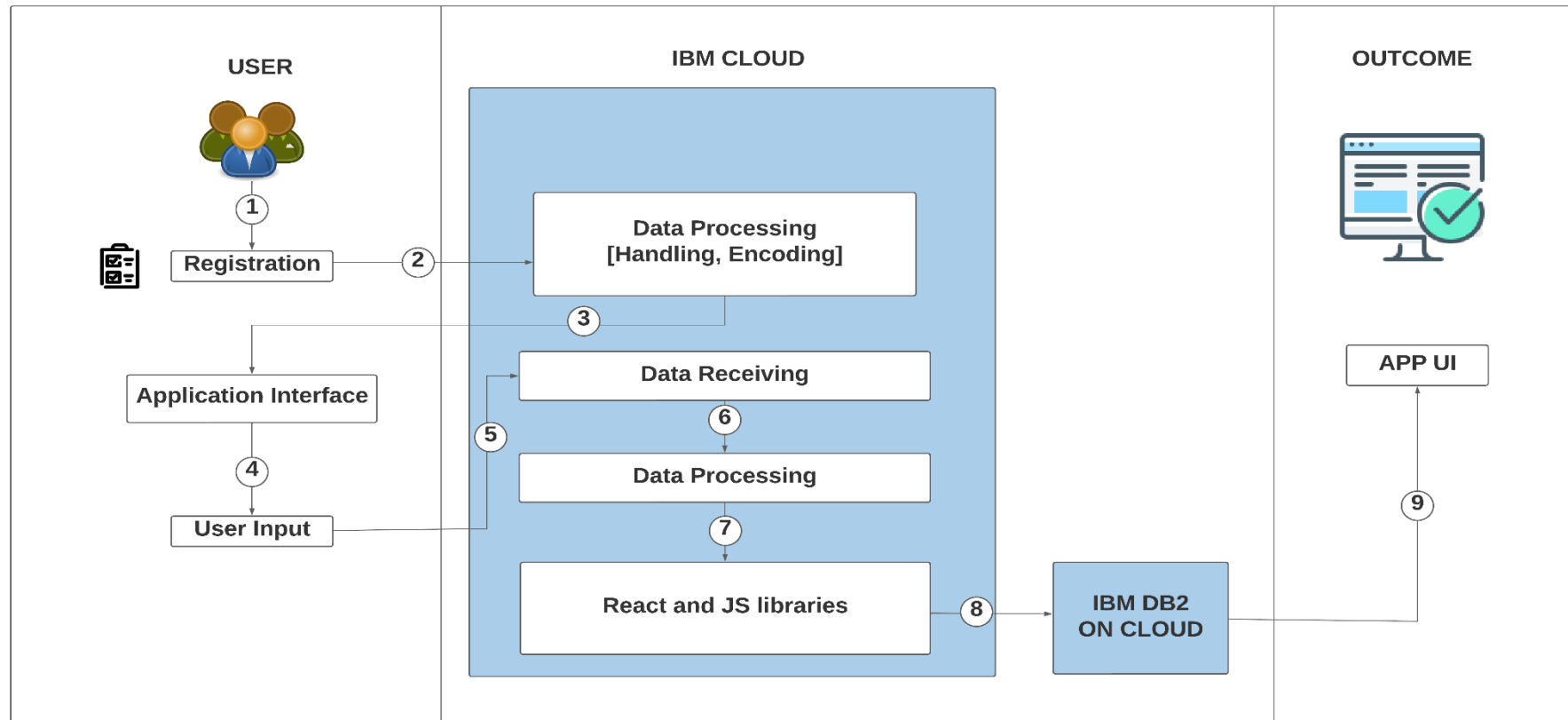


Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	A user interface for the user to interact with the application.	HTML, CSS, JavaScript, React Js.
2.	User Registration	User registering for the applications service.	HTML, CSS, JavaScript, React Js. Express Js
3.	Plasma Search Engine	User gets the details about the list of available plasma in the nearby locations.	JavaScript, Express Js
4.	Register for Plasma Donation	User applies for the donation of plasm	HTML, CSS, JavaScript, Express Js
5.	Cloud Database	Database Service on IBM Cloud	IBM DB2
6.	Infrastructure (Server / Cloud)	Application Deployment on Cloud	IBM Cloud

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	List the open-source frameworks used	React Js, Express Js
2.	Scalable Architecture	The 3-tier architecture used with a separate user interface, application tier and data tier make it easily scalable	React Js, Express Js, IBM DB2
3.	Availability	The web application is highly available as it is deployed in cloud	IBM Cloud
4.	Performance	The performance of the website is improved with caching and security	IBM Cloud Internet Services