

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

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| Date | 16 October 2022 |
| Team ID | PNT2022TMID15298 |
| Project Name | Plasma Donor Application |

Technical Architecture:

The Deliverable shall include the architectural diagram as below and the information as per the table1 & table2

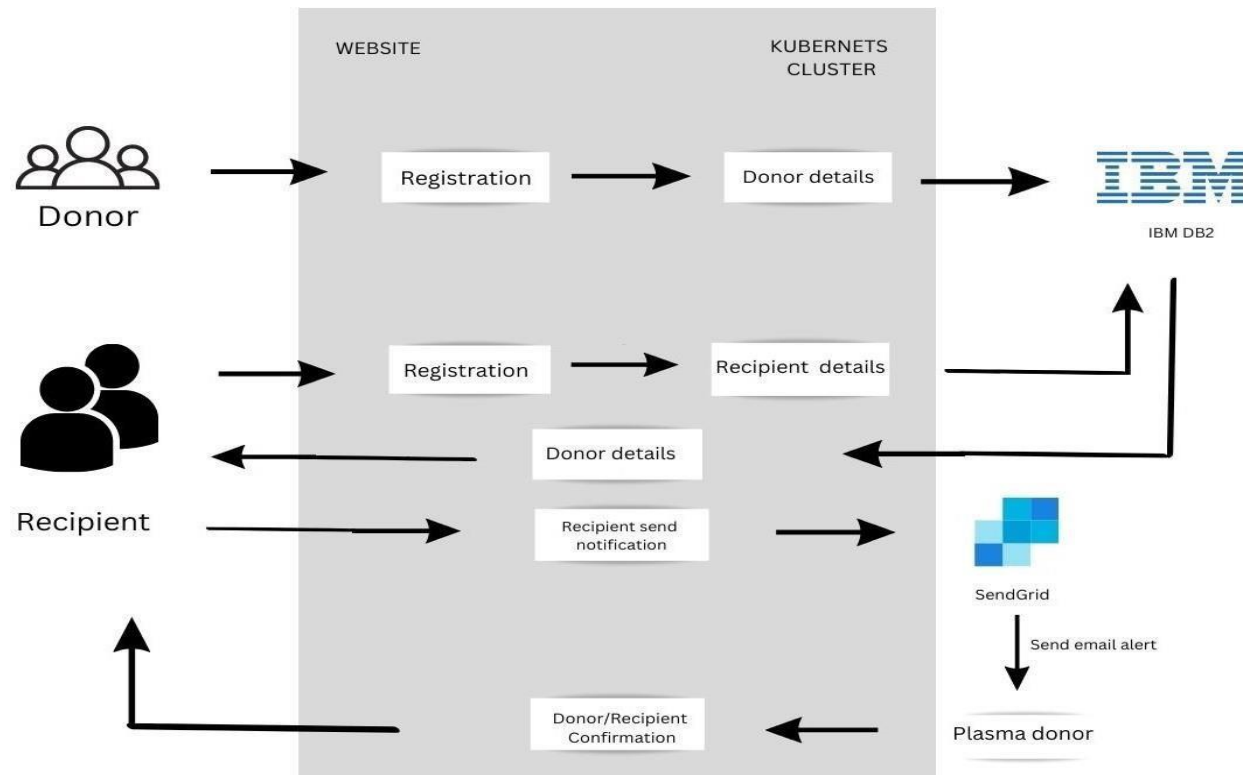


Table-1 : Components & Technologies:

| S.No | Component | Description | Technology |
|------|------------------------|--|----------------------------------|
| 1. | User Interface | User interact with application using form, login | HTML, CSS, Python FLASK |
| 2. | Donor Registration | Donor register in the application and fill their details to donate plasma | HTML, CSS, Python FLASK, IBM DB2 |
| 3. | Recipient Registration | Recipient register in the application and fill their details and search for plasma | HTML, CSS, Python FLASK, IBM DB2 |
| 4. | Notification Request | Then it sends the notification to the donors. | HTML, CSS, Python FLASK, IBM DB2 |
| 5. | SendGrid | Sends email alert to the registered donor | SendGrid |
| 6. | Cloud Database | Database Service on Cloud | IBM DB2 |
| 7. | Kubernets | Run Containerized application | IBM Kubernets |

Table-2: Application Characteristics:

| S.No | Characteristics | Description | Technology |
|------|------------------------|--|--------------|
| 1. | Open-Source Frameworks | DOCKER is used for Open Source Framework | DOCKER |
| 2. | Scalable Architecture | It connected with scalable architecture | IBM DB2 |
| 3. | Availability | This application is anytime accessible | Python FLASK |
| 4. | Performance | Record resource requests and save registered information | IBM DB2 |

