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

| Date | 03 October 2022 |
|------|------------------|
| Team ID | PNT2022TMID33437 |
| Project Name | A Fertilizers Recommendation System For Disease Prediction |
| Maximum Marks | 4 Marks |

**Technical Architecture:**

The Deliverable shall include the architectural diagram as below and the information as per the table1 & table 2

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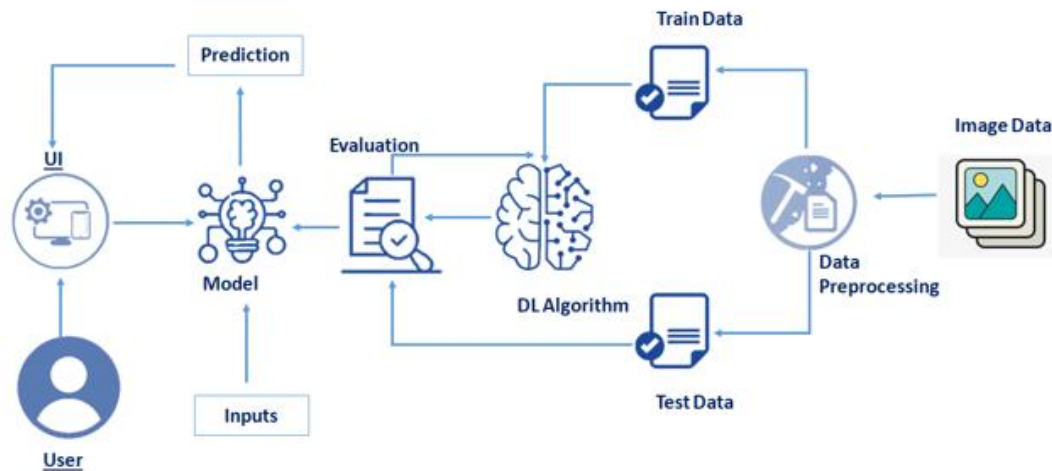


Guidelines:

1. It Process the images of leaves to predict disease
2. It contains the MNIST Dataset predict the disease
3. Indicate external interfaces
4. It contains the IBM DB2 Cloud

| S. No | Component | Description | Technology |
|---|---|---|---|
| 1. | User Interface | How user interacts with application e.g. Web UI, Mobile App, Chatbot etc. | HTML, CSS, JavaScript / Angular Js / React Js etc. |
| 2. | Application Logic-1 | Logic for a process in the application for application access | Java / Python |
| 3. | Database | Data Type, Configurations etc. | MySQL, NoSQL, etc. |
| 4. | Dataset | Dataset for Disease Prediction | MNIST Dataset |
| 5. | Deep Learning Model | Purpose of Deep Learning Model | Fertilizers Recommendation Model |

**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 | The model is secured by Login Id and Password | It should be encrypted and decrypted in database |
| 3. | Scalable Architecture | It should be scalable when more number of users uses the application | Technology used |
| 4. | Availability | It should be available in both online and offline mode | Technology used |
| 5. | Performance | It should be in good performance because of the architecture | Technology used |