

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

Date	15 October 2022
Team ID	PNT2022TMID44860
Project Name	Fertilizer 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:

S.No	Component	Description	Technology
1.	User Interface	How user interacts with application e.g. Web UI	HTML, CSS, Python Flask
2.	Application Logic-1	Get input from the user	HTML, CSS, Python Flask
3.	Application Logic-2	Predicts based on the provided data	Python
4.	Application Logic-3	Displays the predicted result	Python, HTML, CSS, Flask Python
5.	File Storage	File storage requirements	IBM CLOUD
6.	Machine Learning Model	Modelling	Prediction and classification (CNN)
7.	Infrastructure	Cloud Deployment	IBM CLOUD

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Development and Deployment	IBM Cloud, Python
2.	Security Implementations	Security provided by IBM Cloud	Identity and Access Protection
3.	Scalable Architecture	Model can be scalable	Python
4.	Availability	Available in the cloud	IBM Cloud
5.	Performance	High accuracy performance	Machine Learning Prediction