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

Date	16 November 2022
Team ID	PNT2022TMID36798
Project Name	Fertilizers Recommendation System For Disease Prediction
Maximum Marks	4 Marks

Technical Architecture:

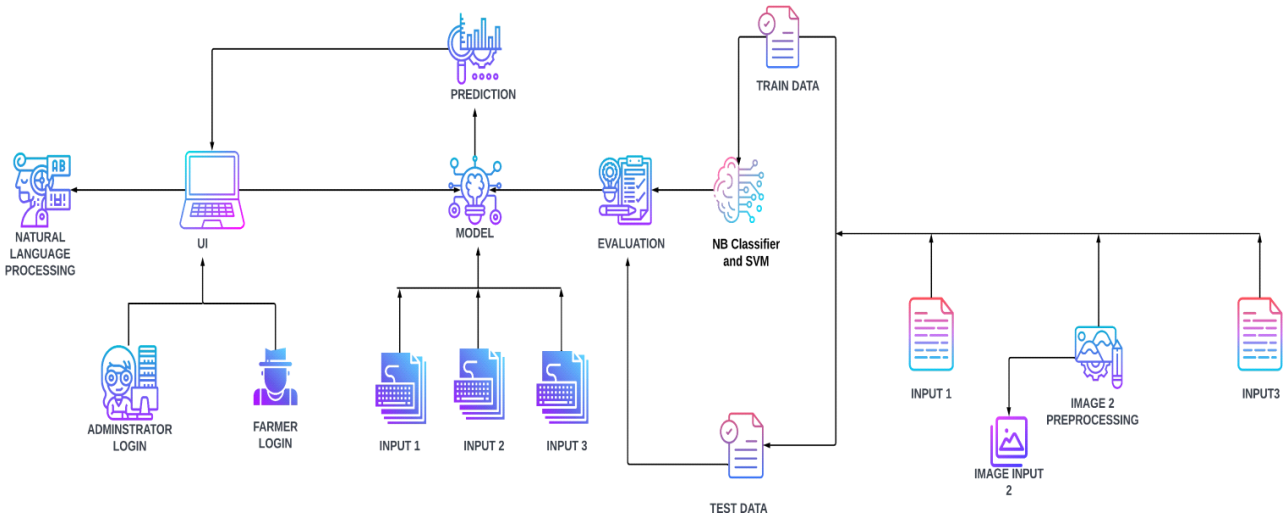

Table-1 : Components & Technologies

S.No	Component	Description	Technology	
1.	User Interface	How the user interacts with the application .To depict the human-computer interaction and communication.	HTML, CSS,JSP	
2.	Application Logic-1	A page to upload images as input	Python	
3.	Application Logic-2	To use the MachineLearning model and predicting the result	Python	
4.	Database	Structured data-images	MySql	
5.	Cloud Database	Database that typically runs on a cloud computing platform and accessto the database is provided as-a- service	IBM Cloud Databases for	

			MySQL
6.	File Storage	To store data in a hierarchicalstructure	Local File system
7.	Machine LearningModel	Here, we use a Support Vector Machine Algorithm that is used widely in Classification and Regression problems.	Random Forest ,XG Boost

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Flask micro web framework	Written in Python. It is classified as a micro frame work because it does not requir eparticular tools or libraries. It has no database abstraction layer, form validation, or any other components where preexisting third-party libraries provid ecommon functions.
2.	Security Implementations	With all aspects of the job including detecting maliciou attacks, analyzing the network endpoint protection andvulnerability assessment, Sign i encryption	IBM Cloud App IDServices
3.	Availability	Available for all data size	-