

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

Date	03 October 2022
Team ID	PN T2022TMID31712
Project Name	Fertilizers Recommendation System For Disease Prediction
Maximum Marks	4 Marks

Technical Architecture:

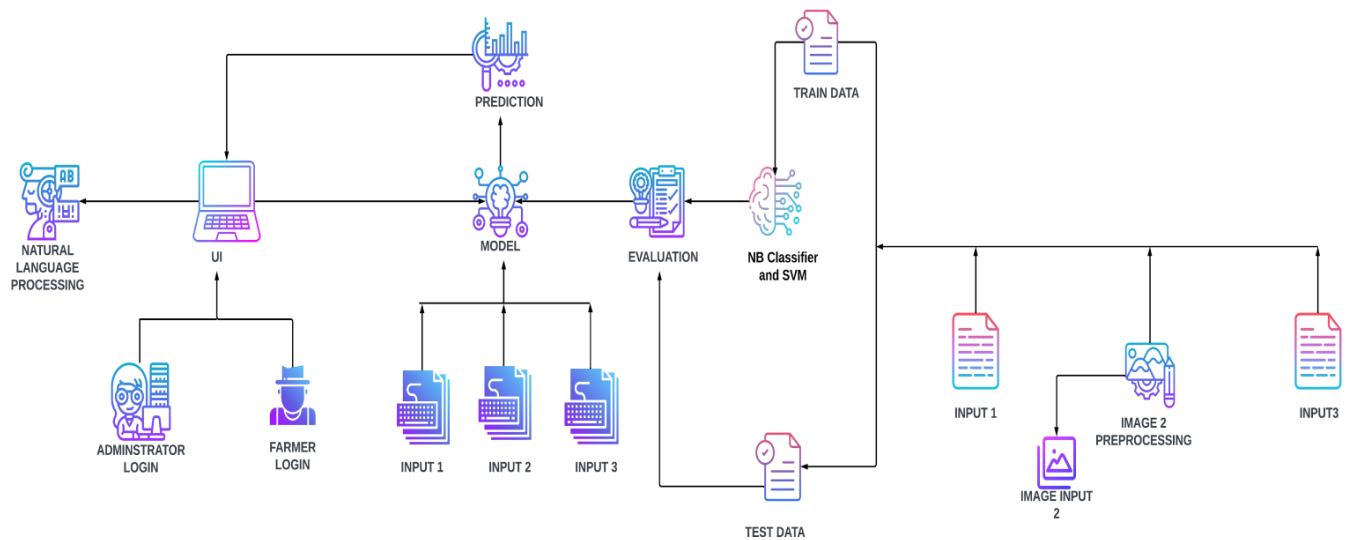


Table-1 : Components & Technologies

S.N o	Component	Description	Technology
1.	User Interface	.To depict the human-computer How the user interacts with the application interaction and communication.	HTML, CSS,JSP
2.	Application Logic-1	a page where photos can be entered	Python

3.	Application Logic-2	using a machine learning model to predict the outcome	Python
4.	Database	Structured data-images	MySql
5.	Cloud Database	database that usually operates on a cloud computing platform and offers access as a service	IBM Cloud Databases for MySQL
6.	File Storage	to organize data into a hierarchy	Local File system
7.	Machine LearningModel	In this instance, we employ a Support Vector Machine algorithm, which is frequently applied to classification and regression issues.	Random Forest ,XGBoost

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 require particular tools or libraries. It has no database abstraction layer, form validation, or any other components where preexisting third-party libraries provide common functions.
2.	Security Implementations	Detecting malicious assaults, examining network endpoint protection, and vulnerability evaluation are only a few of the parts of the job. enrollment encryption	IBM Cloud App ID Services

3.	Availability	Available for all data size	-
4.	Performance	can increase storage capacity based on our demands	Python, AngularJS