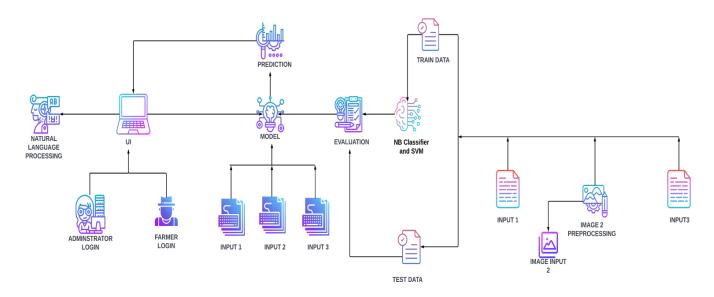
## Project Design Phase-II Technology Stack (Architecture & Stack)

Date	31 October 2022
Team ID	PNT2022TMID25585
Project Name	Fertilizers Recommendation
	SystemFor Disease Prediction
Maximum Marks	4 Marks

## **Technical Architecture:**



**Table-1: Components & Technologies** 

S.N o	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 forMySQL
6.	File Storage	To store data in a hierarchicalstructure	Local File system
7.	Machine LearningModel	Here, we use a Support VectorMachine Algorithm that is usedwidely in Classification and Regression problems.	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 amicro frame work because it does not requireparticular tools or libraries. It has nodatabase abstraction layer, form validation, orany other components where preexisting third-party libraries provide common functions.
2.	Security Implementations	With all aspects of the job, including detecting malicious attacks, analyzing the network endpoint protection and vulnerability assessment, Sign in encryption	IBM Cloud App IDServices

3.	Availability	Available for all data size	-
4.	Performance	Can extend the storage accordingto our needs	Python,AngularJS