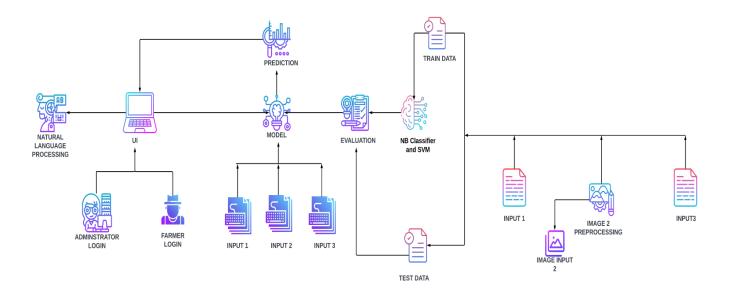
## **Project Design Phase - II**

## **Technology Stack (Architecture & Stack)**

Date	17 October 2022
Team ID	PNT2022TMID17868
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	User engagement with the application. To illustrate	HTML, CSS, JSP
		communication and	

		interaction between	
		humans and computers.	
2.	Application Logic - 1	The page where images	Python
		can be input	
3.	Application Logic - 2	Using a machine learning	Python
		model to predict the	
		outcome	
4.	Database	Structured data images	MySql
5.	Cloud Database	Database that usually	IBM Cloud
		operates on a cloud	databases for
		computing platform and	MySql
		offers access as a service	
6.	File Storage	To store data in a	Local file system
		hierarchical structure	
7.	Machine Learning Model	In this instance, we employ	Random forest,
	Model	a Support Vector Machine	XG Boost
		algorithm, which is	
		frequently applied to classification and	
		regression problems.	
		regression problems.	

## **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

2.	Security Implementations	Detecting malicious attacks, assessing network endpoint protection, and vulnerability assessment are only a few of the	micro framework because it does not require particular tools or libraries. It has nodatabase abstraction layer, form validation, or any other components where preexisting third- party libraries provide common functions.  IBM Cloud App ID Services
		vulnerability assessment	
3.	Availability	Available for all data sizes	
4.	Performance	Can increase storage capacity based on our demands	Python, Angular JS