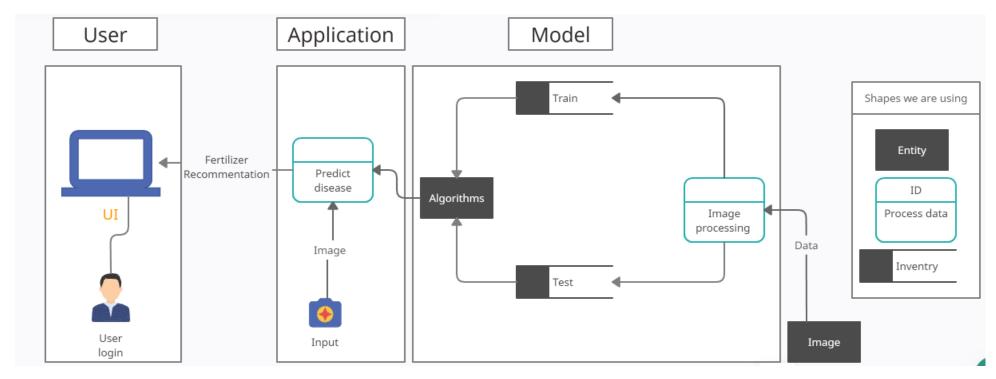
## Project Design Phase-II Technology Stack (Architecture & Stack)

Date	03 October 2022
Team ID	PNT2022TMID06698
Project Name	Project - 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 Machine Learning 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 access to the database is provided as-a-service	IBM Cloud Databases for MySQL.
6.	File Storage	To store data in a hierarchical structure	Local File system
7.	Machine Learning Model	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	Technology of open source framework
2.	Security Implementations	With all aspects of the job, including detecting malicious attacks, analysing the network, endpoint protection and vulnerability assessment, Sign in encryption	IBM Cloud App ID Services
3.	Availability	Available for all data size	Python

S.No	Characteristics	Description	Technology
4.	Performance	Can extend the storage according to our needs	Python, AngularJS