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

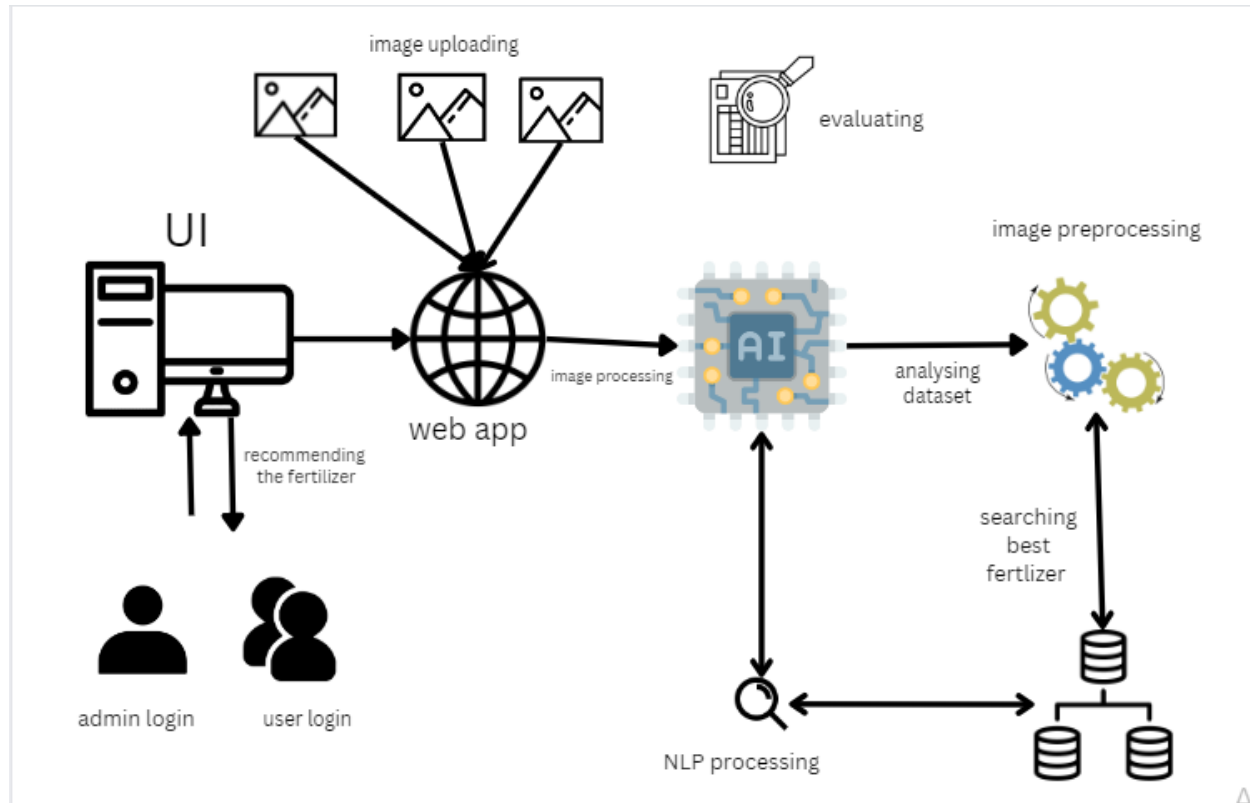| Date	03 October 2022
Team ID	PNT2022TMID32673
Project Name	Fertilizers Recommendation System For Disease Prediction
Maximum Marks	4 Marks

Technical Architecture:

Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	How user interacts with application e.g. Web UI, Mobile App, Chatbot etc.	HTML, CSS, JavaScript / Angular Js / React Js etc.
2.	Application Logic-1	Uploading image as a input	Python
3.	Application Logic-2	Machine learning algorithm to predict the the results	python
4.	Machine learning model	Machine algorithm used in classification	Random forest
5.	Database	Data Type, Configurations etc.	MySQL, NoSQL, etc.
6.	Cloud Database	Database Service on Cloud	IBM DB2, IBM Cloudant etc.
7.	File Storage	File storage requirements	IBM Block Storage or Other Storage Service or Local Filesystem

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Flask micro web framework	Written in python , existing third party libraries provide common function does not need any particular tool
2.	Security Implementations	Detecting the malicious attack , ensure the network protection ,sign in and sign out feature	IBM cloud app id controllers
3.	Availability	Available for all user	
4.	Performance	Based upon the storage and usage of the app	python