

Project Design Phase-II

Technology Stack (Architecture & Stack)

Date	21 October 2022
Team ID	PNT2022TMID10715
Project Name	Fertilizers recommendation system for disease prediction
Maximum Marks	4 Marks

Technical Architecture:

The Deliverable shall include the architectural diagram as below and the information as per the table1 & table 2

Technical Architecture Diagram:

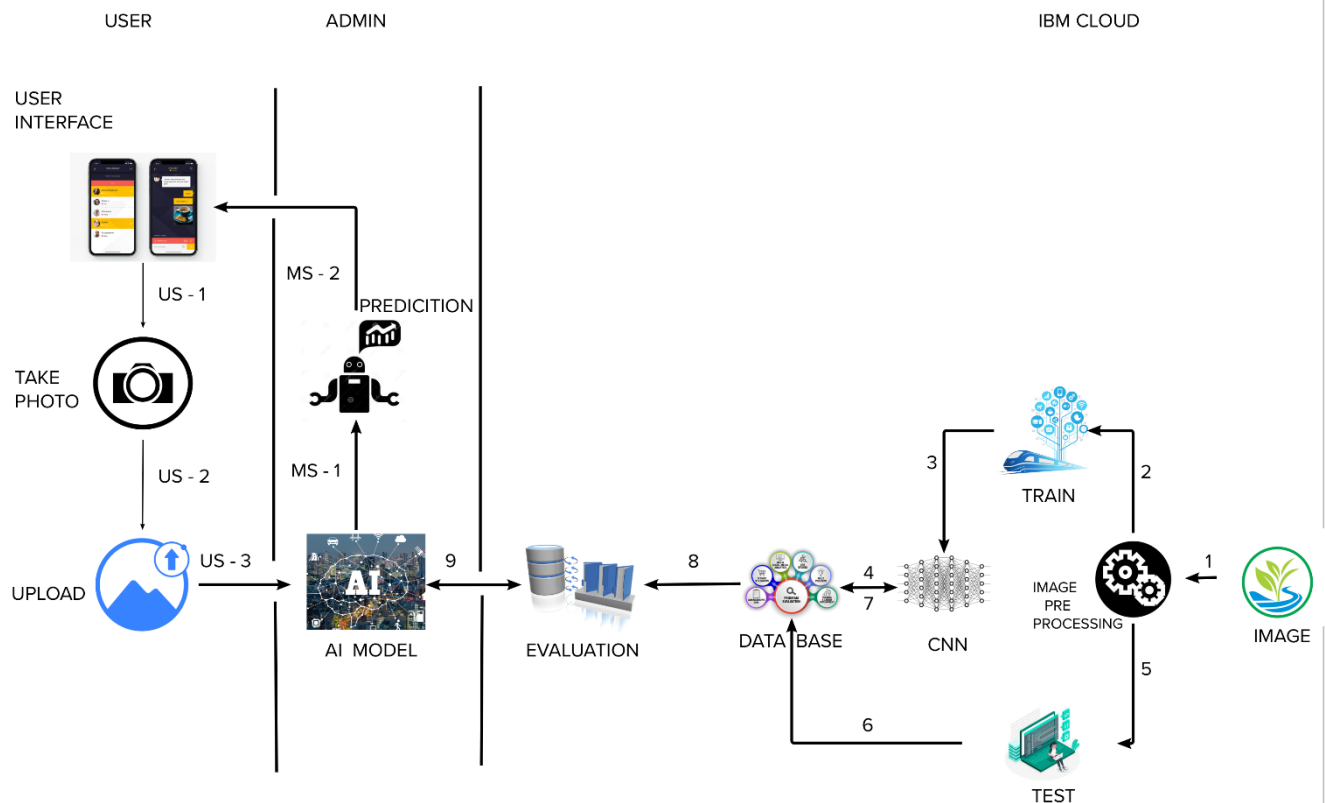


Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1	User Interface	Application development eg Mobile app, Chatbot, Web UI	CSS, HTML, JavaScript.
2	Application logic	application	Python
3	Image processing	Provide logic for a machine to process the images uploaded by the users	Image Recognition
4	Database	Enable developer to store data and then accessing it	MySQL
5	Cloud Database	Data base on cloud	IBM Data base
6	File Storage	File storage	IBM Cloud
7	External API-1	We use it for the identity of the users	Gmail
8	External API-2	Verify user	Phone number
9	Deep Learning Model	Deep learning model	CNN
10	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud	Local, Cloud Foundry

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1	Open-Source Frameworks	List the open-source frameworks used	Flask is a free high level opensource web framework
2	Security Implementations	List all the security / access controls implemented, use of firewalls etc.	SHA-256, OWASP
3	Scalable Architecture	Justify the scalability of architecture	Micro-services
4	Availability	Justify the availability of application	Load balancers
5	Performance	Design consideration for the performance of the application.	use of Cache