## PROJECT DESIGN PHASE-II TECHNOLOGY STACK (ARCHITECTURE & STACK)

Date	19 October 2022
Team ID	PNT2022TMID24293
Project Name	Fertilizer Recommendation System For Disease Prediction
Maximum Marks	4 Marks

## TECHNICAL ARCHITECTURE

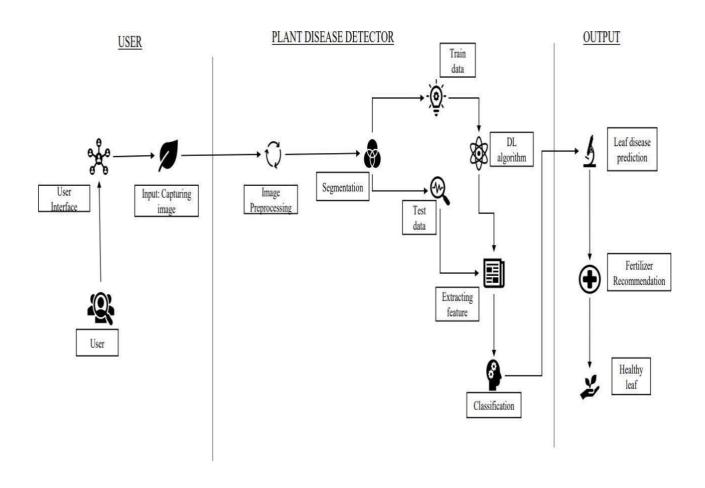


TABLE -1: COMPONENTS & TECHNOLOGIES

S.NO	COMPONENT	DESCRIPTION	TECHNOLOGY
1.	User Interface	How user interacts with the website.	HTML, CSS, etc
2.	Disease Prediction	Here the disease in the leaf is predicted	Keras, TensorFlow, OpenCV, CNN.
3.	Fertilizer Recommendation	The fertilizer is recommended for the predicted disease	User interface, HTML, CSS.
4.	Dataset	The training and testing data are collectively stored	Kaggle.com, machine learning repository, etc
5.	Database	Data Type, Configurations etc	My SQL etc.
6.	File Storage	File storage requirements	IBM, Local File system.
7.	Modules	Purpose of deep learning modules	Image Recognition Modules, etc
8.	Cloud Database	Database Service on Cloud	IBM Cloud etc
9.	Infrastructure (Server)	Application development on Local System-local server configuration	Local File system.

## **TABLE - 2: APPLICATION CHARACTERISTICS**

S.NO	CHARACTERISTICS	DESCRIPTION	TECHNOLOGY
1.	Opensource Framework	List of the opensource	Open source-PyCharm,
		framework used	Anaconda navigator, flask
			framework.
2.	Scalable Architecture	Justify the scalable architecture	Anaconda Navigator
3.	Availability	Justify the availability of	Web application access to
		website	all.
4.	Performance	Design consideration for the	Convolutional Neural
		performance of the website	Networks and