Project Design Phase-II

Technology Stack (Architecture & Stack)

Date	27 October 2022
Team ID	PNT2022TMID31070
Project Name	Fertilizers Recommendation System For Disease Prediction

Technical Architecture:

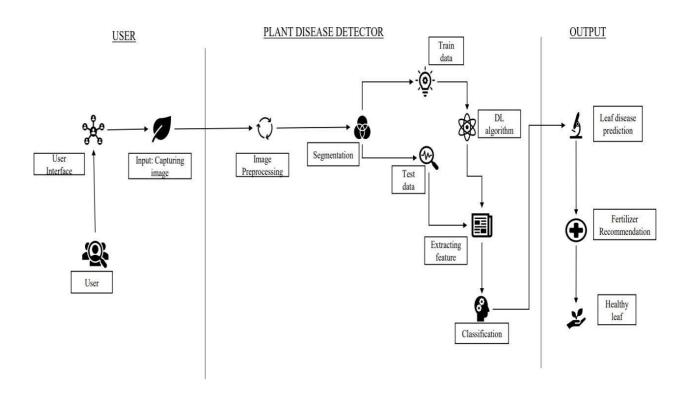


Table -1: Components & Technologies:

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,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, data.gov, UCI machine learning repository, etc.
5.	File Storage	File storage requirements	IBM, Local File system.
6,	Modules	Purpose of deep learning modules	Image Recognition Modules,etc.
7.	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.	Login	List of the access control	Security - OWASP
		implementation	
3.	Scalable Architecture	Justify the scalable architecture	PyCharm
4.	Availability	Justify the availability of	Web application access to
		website	all.
5.	Performance	Design consideration for the	Convolutional Neural
		performance of the website	Networks.