Project Design Phase-II

Technology Stack (Architecture & Stack)

Date	16 November 2022
Team ID	PNT2022TMID22643
Project Name	Fertilizers Recommendation System For Disease Prediction

Technical Architecture:

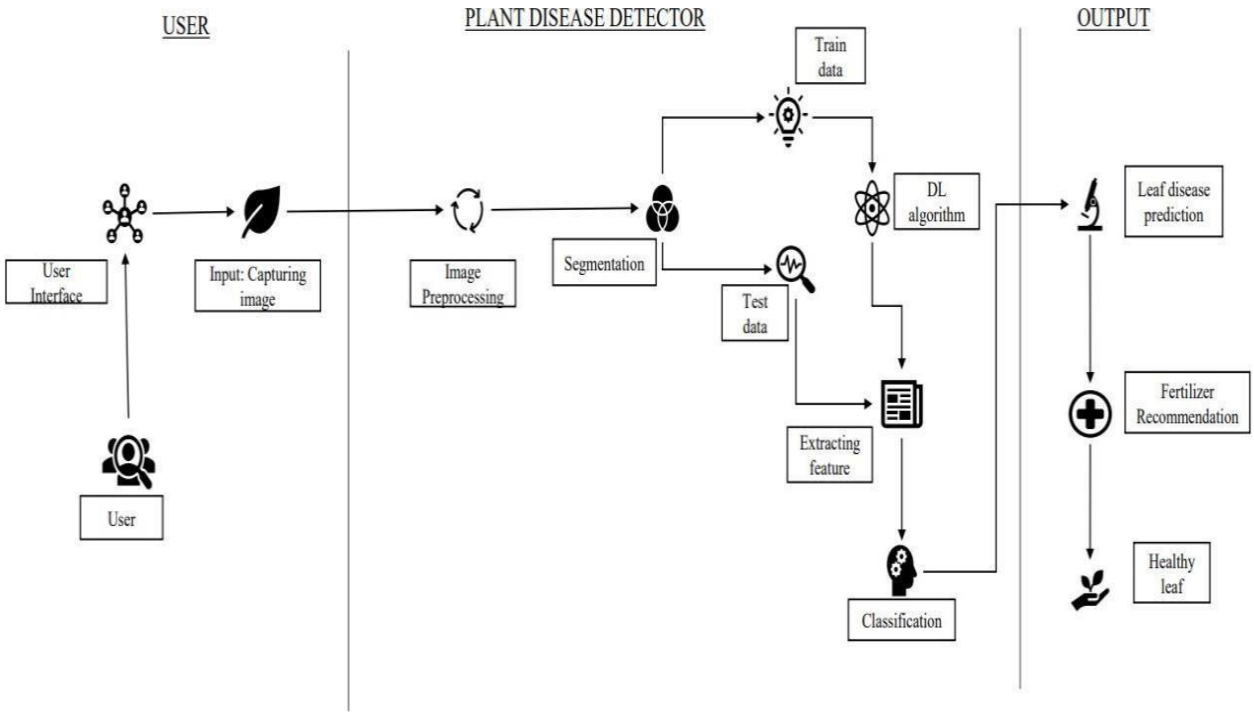

Table -1: Components & Technologies :

S.NO	Component	Description	Technology
1,	User Interface	How user interacts with thewebsite.	HTML,CSS, etc,.
2,	Disease Prediction	Here the disease in the leaf is predicted	Keras,CNN.
3.	Fertilizer Recommendation	The fertilizer is recommendedfor the predicted disease	User interface, HTML, CSS.
4.	Dataset	The training and testing dataare 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 learningmodules	Image Recognition Modules,etc.
7.	Infrastructure(Server)	Application development onLocal System-local server configuration:	Local File system.

Table – 2: Application Characteristics:

S.NO	Characteristics	Description	Technology
1.	Opensource Framework	List of the opensource framework used	Open source-PyCharm, anaconda navigator, flaskframework.
2.	Login	List of the access control implementation	Security - OWASP
3.	Scalable Architecture	Justify the scalable architecture	PyCharm
4.	Availability	Justify the availability of website	Web application access toall.
5.	Performance	Design consideration for theperformance of the website	Convolutional Neural Networks.