

ProjectDesignPhase-II
TechnologyStack(Architecture&Stack)

Date	27October2022
TeamID	PNT2022TMID31104
ProjectName	FertilizersRecommendationSystemForD iseasePrediction

TechnicalArchitecture:

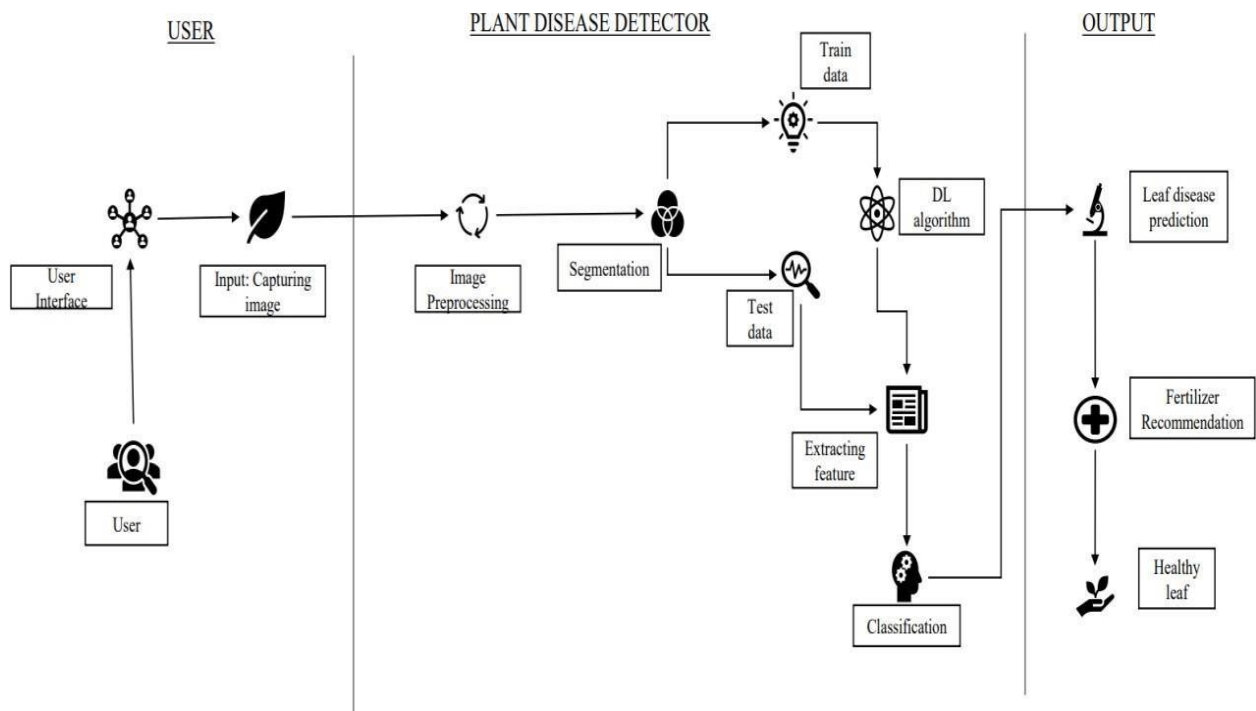


Table -1:Components&Technologies:

S.NO	Component	Description	Technology
1,	UserInterface	How user interacts with thewebsite.	HTML,CSS,etc.,
2,	DiseasePrediction	Here the disease in the leaf ispredicted	Keras,CNN.
3.	FertilizerRecommendation	Thefertilizerisrecommendedforthe predicteddisease	Userinterface,HTML,CSS.
4.	Dataset	The training and testing dataarecollectivelystored	Kaggle.com, data.gov, UCImachinelearningreposit ory,etc.
5.	FileStorage	Filestoragerequirements	IBM,LocalFilesystem.
6,	Modules	Purposeofdeeplearning modules	ImageRecognition Modules,etc.
7.	Infrastructure(Server)	Application development onLocal System-local serverconfiguration:	LocalFilesystem.

Table–2:ApplicationCharacteristics:

S.NO	Characteristics	Description	Technology
1.	OpensourceFramework	List of the opensourceframework used	Open source- PyCharm,anacondanavig ator,flask framework.
2.	Login	Listoftheaccesscontroli mplementation	Security-OWASP
3.	ScalableArchitecture	Justifythescalablearchitecture	PyCharm
4.	Availability	Justifytheavailabilityof website	Webapplicationaccessto all.
5.	Performance	Design consideration for theperformanceofthewebsite	Convolutional NeuralNetworks.