

# Project Design Phase-II

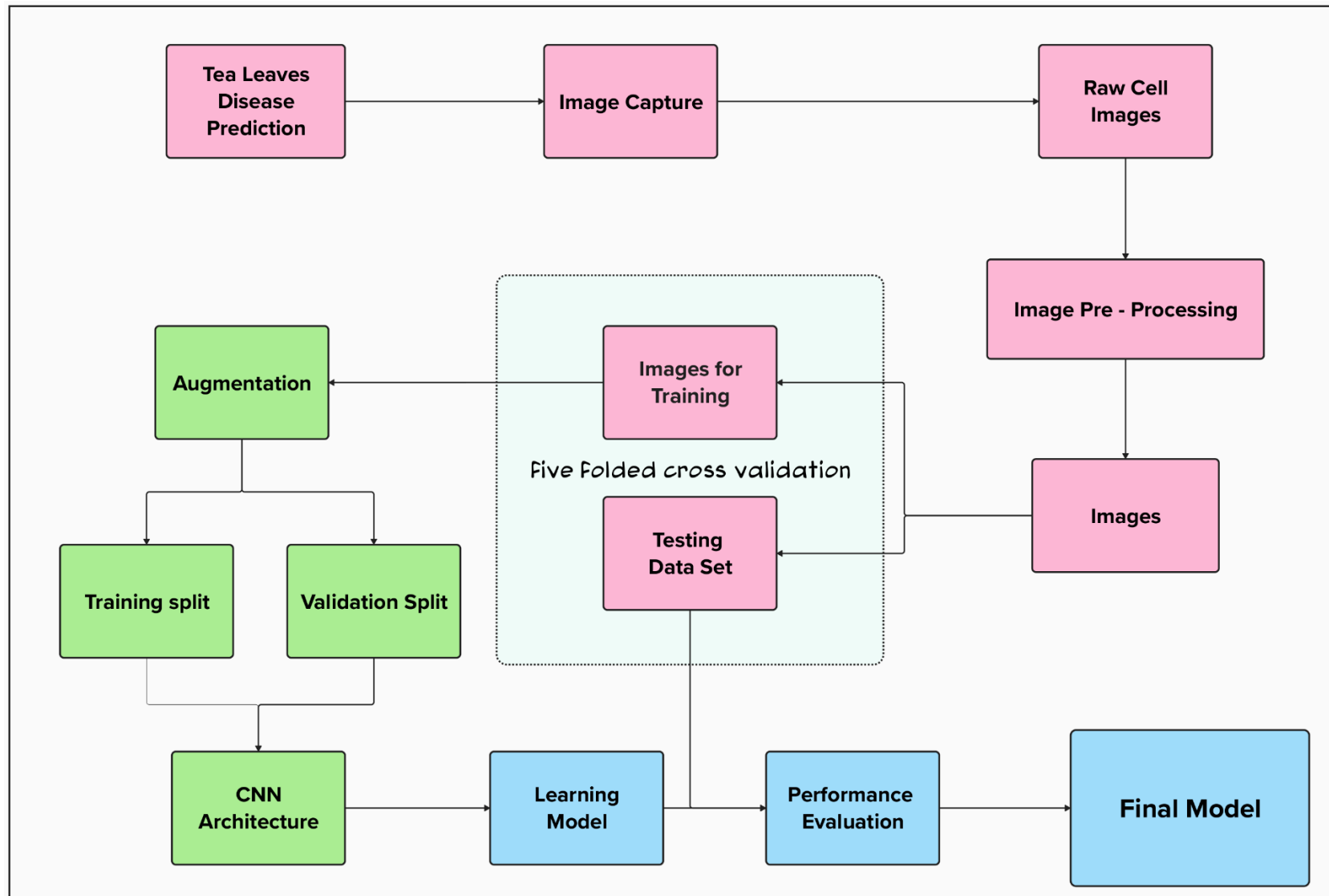
## Data Flow Diagram & User Stories

Date	02-11-23
Team ID	Team-592384
Project Name	Deep Learning Model For Detecting Diseases In Tea Leaves
Maximum Marks	4 Marks

### Data Flow Diagrams:

A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the right amount of the system requirement graphically. It shows how data enters and leaves the system, what changes the information, and where data is stored.

Data Flow Diagram (Project – Disease Detection on Tea Leaves)



## User Stories

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Tea farmer	Use a deep learning model to detect diseases in tea leaves	USN-1	Take a picture of tea leaves with a smartphone and upload it to a cloud-based platform to have the deep learning model analyze the image and tell if there are any diseases present, and if so, what type of disease it is.	The user should be able to take a picture of their tea leaves with their smartphone and upload it to the cloud-based platform.	High	Sprint 1
Tea Farmer	Be able to monitor the health of their tea plantation over time.	USN-2	As a tea farmer, I want to be able to upload historical images of my tea leaves to the cloud-based platform and have the deep learning model generate a report that shows the trends in disease prevalence over time.	The deep learning model should identify any diseases present in the images.	Medium	Sprint 2
Tea company	Be able to improve the quality of their tea.	USN-3	As a tea company, I want to be able to use the deep learning model to identify the factors that are contributing to disease outbreaks in my plantations.	The tea company should be able to provide the model with data on the environmental conditions in their plantations, such as	Medium	Sprint 2

				temperature, humidity, and rainfall.		
Tea researcher	Be able to develop new methods for detecting and preventing tea leaf diseases.	USN-4	As a tea researcher, I want to be able to use the deep learning model to identify new types of tea leaf diseases and to develop new treatments for existing diseases.	The deep learning model should be able to generate new treatments for existing diseases.	High	Sprint 1
Tea researcher	Be able to detect diseases in tea leaves early and accurately.	USN-5	I want to be able to take a picture of my tea leaves with my smartphone and have the deep learning model analyse the image and tell me if there are any diseases present.	The accuracy of the disease detection should be at least 95%.	High	Sprint 1