| Date	31 st October 2022
Team ID	PNT2022TMID12327
Project Name	Emerging Methods for Early Detection of Forest Fires
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.
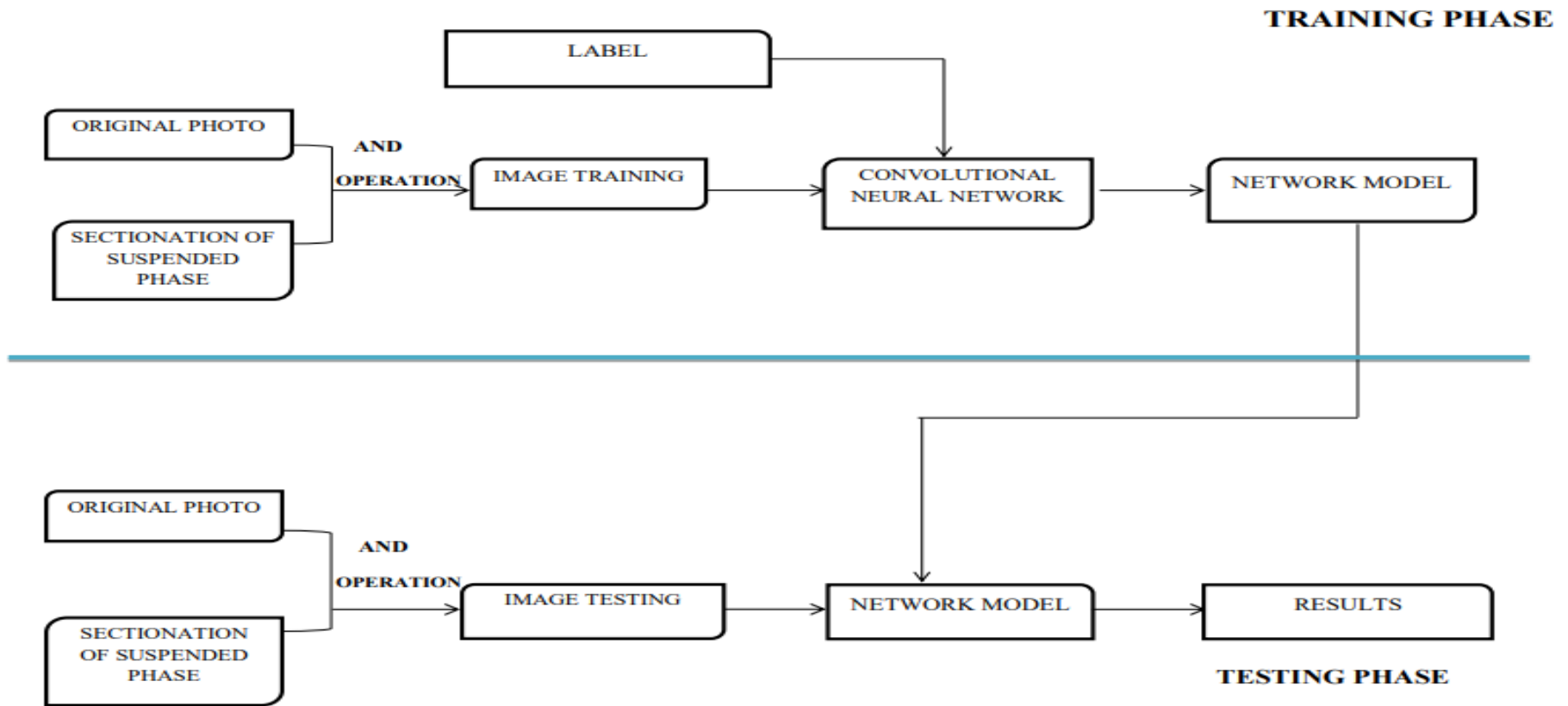
Example:

FLOW
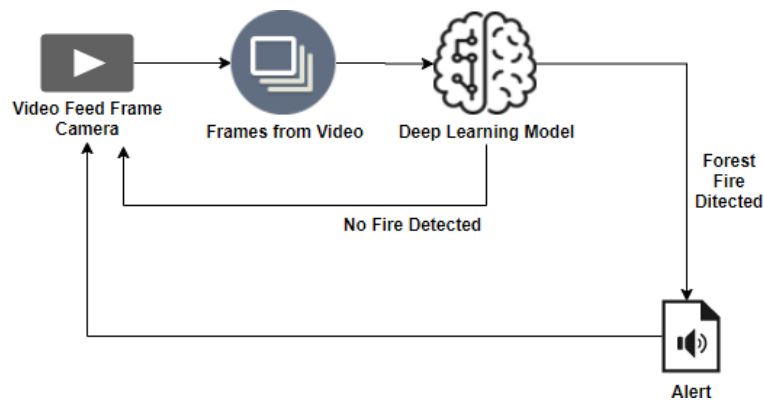
□ It is difficult to predict and detect Forest Fire in a sparsely populated forest area.

□ it is more difficult if the prediction is done using ground-based methods like Camera or Video-Based approach.

□ Satellites can be an important source of data prior to and also during the Fire due to its reliability and efficiency.

□ The various real-time forest fire detection and prediction approaches, with the goal of informing the local fire authorities.

□ If the fire is not detected ,it will send the result to the frame camera.if the forest fire will detected the alert will go to the video feed frame camera.

DFD:

TRAINING PHASE

LABEL

ORIGINAL PHOTO

AND OPERATION

SECTIONATION OF SUSPENDED PHASE

IMAGE TRAINING

CONVOLUTIONAL NEURAL NETWORK

NETWORK MODEL

ORIGINAL PHOTO

AND OPERATION

SECTIONATION OF SUSPENDED PHASE

IMAGE TESTING

NETWORK MODEL

RESULTS

TESTING PHASE

User Stories

Use the below template to list all the user stories for the product.

User Type	Functional Requirement (Epic)	User Story Number	User Story I Task	Acceptance criteria	Priority	Release
list of environment	Collection of the data	USN-1	As an environmentalist, you must gather information about the forest's temperature, humidity, wind, and rainfall.	The proper data must be gathered in order to avoid having the prediction be incorrect.	High	Sprint-1
		USN-2	Identify potential prediction-based algorithms.	To gather the algorithms and determine each algorithm's accuracy level.	Medium	Sprint-2
	Implement \sAlgorithm	USN-3	Determine each algorithm's accuracy.	Accuracy of each algorithm's calculations, making it simple to get the most precise results	High	Sprint-2
		USN-4	Evaluate the Dataset	Information is assessed before processing.	Medium	Sprint-1
	Analyze the algorithm's accuracy	USN-5	Determine the precision, accuracy, and recall of each algorithm.	The output of the right depends on these settings	High	Sprint-3