

**Project Design Phase-II**  
**Data Flow Diagram & User Stories**

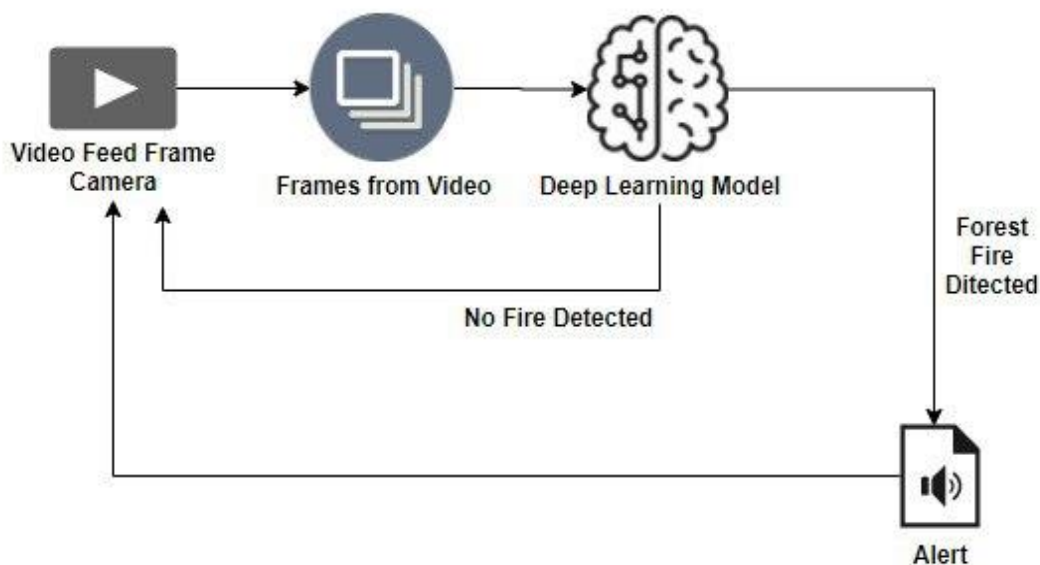
Date	16 October 2022
Team ID	PNT2022TMID50673
Project Name	Emerging Methods for Early Detection of Forest Fires
Maximum Marks	4 Marks

**Data Flow Diagram:**

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:**

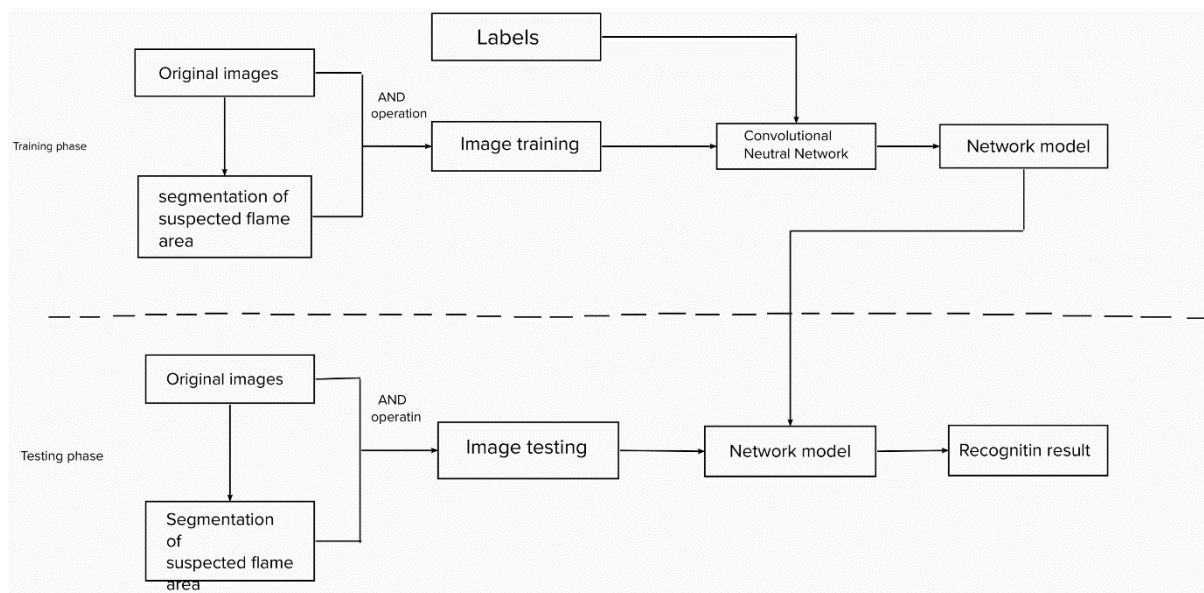
FLOW



1. It is difficult to predict and detect Forest Fire in a sparsely populated forest area.
2. It is more difficult if the prediction is done using ground-based methods using Camera or video recorder.
3. Satellites can be an important source of data prior to and during the Fire due to its reliability and efficiency.
4. There various real-time forest fire detection and prediction approaches, with the goal of information the local fire authorities.

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

#### DFD:



#### 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   task	Acceptance criteria	Priority	Release
Environmentalism	Collect the data	USN-1	Environmentalists help the public make informed decisions about the use of limited natural resources. They do research, produce reports, write articles, lecture, issue press releases, lobby congress, fundraise, and campaign. The daily routine depends on the specialty.	It is necessary to collect the right data else the prediction maybe inaccurate	High	Sprint-I
		USN-2	Identify algorithms that can be used for prediction	To collect the algorithm to identify the	Medium	Sprint-2

				accuracy level of each algorithms		
	Implement Algorithm	USN-3	Identify the accuracy of all the algorithms that are being used.	Accuracy of each algorithm-known so that it is easy to make the most efficient prediction.	High	Sprint-2
		USN-4	Evaluate the Dataset	Data is evaluated before processing	Medium	Sprint-1
	Evaluate Accuracy of Algorithm	USN-5	Identify accuracy, precision, recall each algorithm.	These values are important for obtaining the right output	High	Sprint-3
	Display Results	USN-6	Output is received from each algorithm.	It is widely used to foresee effects and take preventative action.	High	Sprint-4