Team ID	PNT2022TMID03630
Project Name	Emerging Methods for Early Detection of Forest Fires
Team details	Team Leader : MEKALA BHARGAV Team member : NARIBOYINA PAVAN SAI Team member : MUNJURU BHARADWAJA Team member : N PAVAN

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

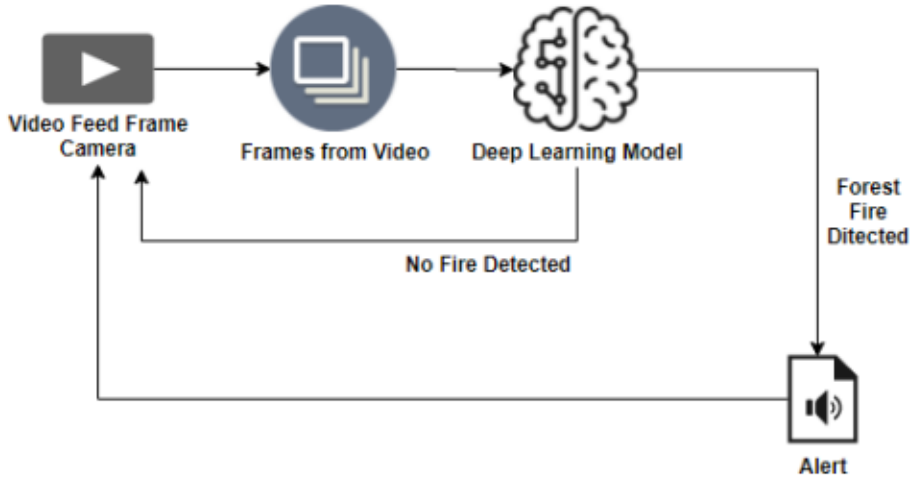
1.It is difficult to predict and detect Forest Fire in a sparsely populated forest area.

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

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

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

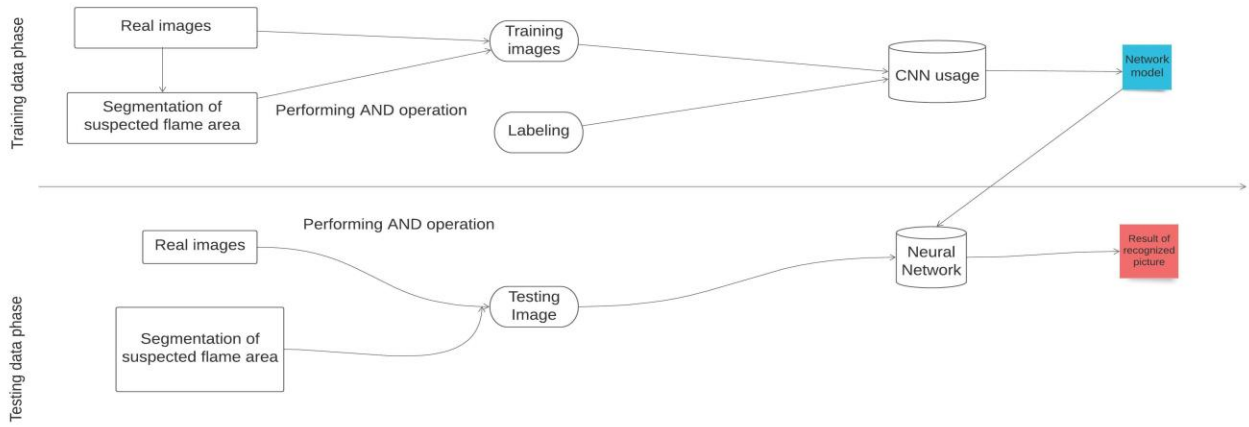
5.If the fire is not detected ,it will send the result to the frame camera.if the forest fire will detected the alert will go to the video feed frame camera.



User Stories

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

User Type	Functional Requirement	User Story Number	User Story I Task	Acceptance criteria	Priority	Release
Environmenta list	Collect the data	USER-1	As an Environmentalist it is necessary to collect data of the forest which includes the temperature,humidity,wind and rain of the forest.	It is necessary to collect the right data else the prediction maybecome wrong.	High	Sprint-1
		USER-2	Identify algorithms that can be used for prediction	To collect the algorithm to identify the accuracy level of each algorithms	Medium	Sprint-2
	Implement Algorithm	USER-3	Identify the accuracy of each algorithms	Accuracy of each algorithm-calculated so that it is easy to obtain the most accurate output	High	Sprint-2
		USER-4	Evaluate the Dataset	Data is evaluated before processing	Medium	Sprint-1
	Evaluate Accuracy of Algorithm	USER-5	Identify accuracy,precision,recall of each algorithms	These values are important for obtaining the riaht output	High	Sprint-3
	Display Results	USER-6	Outputs from each algorithm are obtained	It is highly used to predict the effect and to High Sprint-4 take precautionary measures	High	Sprint-4


Training data phase
Real images
Segmentation of suspected flame area
Performing AND operation
Training images
Labeling
CNN usage
Network model
Testing data phase
Real images
Performing AND operation
Segmentation of suspected flame area
Testing Image
Neural Network
Result of recognized picture