

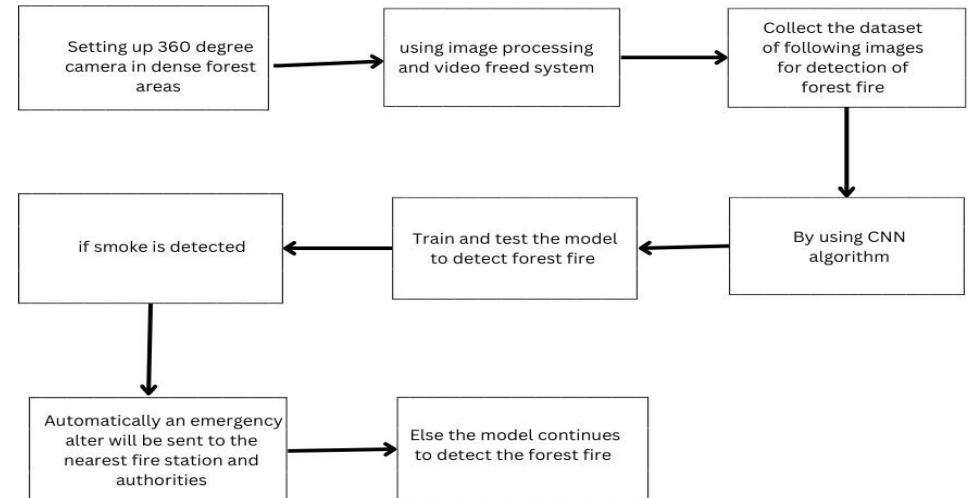
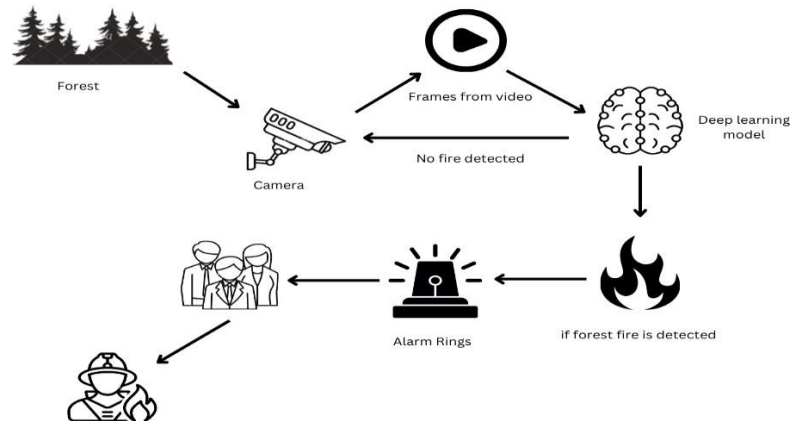
Project Design Phase-II Data Flow Diagram & User Stories

Date	20 November 2022
Team ID	PNT2022TMID24176
Project Name	Early Methods for Detection of Forest Fires
Maximum Marks	4 Marks

Data Flow Diagrams:

Example: DFD Level 0 (Industry Standard)

Example:



User Stories

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Forest Management Team	Initializing Camera	USN-1	The forest management team has to survey the forest by adding camera to the fire prone areas	The live video captured can be monitored	High	Sprint-1
		USN-2	The forest management team can get the frames from video which is used for processing	Camera sends the video frames or images to the center	High	Sprint-2
		USN-3	Along with forest team, the NGO can also get access of the video to take some early measurement of forest fires	They can also get the view of the live monitoring of forest	Low	Sprint-1
Technical Team	Image Classification	USN-4	By using CNN Model, the images captured by the camera is classified accordingly by testing & training the model	The model should be able to identify the difference between fire and a normal forest	Medium	Sprint-2
	Using CNN algorithm	USN-5	The recorded video is under monitoring continuously to determine the detection of early video	Therefore, by using CNN we can determine the input layer, classify the hidden layers and send warnings through output layer	High	Sprint-2
Alert Team		USN-6	Thus, after successful detection of fire by processing images. Model sends the alert by buzzing the alarm and sends messages to the authorities	Thus, the immediate response which is required for earlier determination through sending quick responses	High	Sprint-2
Fire Management			Message will also send to the fire station to cool the fire off	They take the following measures to stop fire from spreading	High	Sprint-2
Media & Nearby Residing People	News, Radio, Alerts,	USN-7	Protecting wildlife, Humans and trees from danger	Thus, helping unit should be sent to protect lives.	Medium	Sprint-2