PROBLEM AND SOLUTION FIT ARCHITECTURE

1.CUSTOMER SEGMENTS

-Environmental protectors who are having thought to protect our environment

-Forest department and organisation

-Forest guards

6.CUSTOMER LIMITATIONS

-must have a smart phone

-must have an email account

- must have a good network connection

5.AVAILABLE SOLUTIONS

- Wireless sensor network provide all required information that influence the environment at any moment accurately.

-Increased chance of jamming.

2.PROBLEMS/PAINS

- Wildfire causes wildlife to move, avoiding flames and searching for new habitat

- This migration can cause animals to wander into densely human populated areas and come into contact with humans they would normally avoid the animals

-They also lead to a deterioration of the air quality, and loss of property, crops, resources, animals and people.

9.PROBLEM ROOT/CAUSE

- Burning Debris. One of the most common causes of wildfires is burning debris

- Irresponsible Campfires, Unextinguished Cigarettes, Vehicle Crashes and Malfunctions, Arson and wildfires may start as the result of lightning .

-Typically, this occurs in the case of unusually long-lasting lightning bolts or a lightning bolt that strikes particularly dry debris.

-Lava refers to hot liquid rock that flows from a volcano.

7.BEHAVIOUR

-controlled burning, fire weather forecasts and estimates of fuel and moisture.

- watch towers ,optical smoke detection, lightning detectors which detect the coordinates of the strike.

-infrared, spotter planes, water tankers, mobile/smart phone calls becoming increasingly common for detecting fires early.

-volunteer reporting-public reporting of fires, public aircraft, and ground based field staff

-operational detection systems: fire towers, aerial patrols, electronic lightning detectors.

3.TRIGGERS TO ACT

- People want to keep their environment save and good and they are willing to lead a healthy life

-And they are protecting the forest animals and tress too.

4.EMOTIONS

-People can't detect it easily but now it is made easy to detect the forest fire in a easy method

10.YOUR SOLUTION

-The methodology is proposed using CNN (Convolutional Neural Networks) model.

- videos and converting it into frames.

-Images are to be classified as fire and non-fire. Number of images in the datasets for fire and non-fire is 2316 and 541 respectively. Totally there are 2857 images

6.CHANNELS OF BEHAVIOUR

Online:

-Can detect the forest fire from their current location and send the message to the fire service

Offline:

-Call by smart phone and inform to the fire service