Team ID: PNT2022TMID21021

Emerging Methods for Early Detection of Forest Fires

SCENARIO

Customer Journey

	Entice	Enter	Engage	Exit	Extend
	How does someone initially become aware of this process?	What do people experience as they begin the process?	In the core moments in the process, what happens?	What do people typically experience as the process finishes?	What happens after the experience is over?
Steps What does the person (or group) typically experience?	Collect the dataset for fire detection Monitor the climatic changes	The product is on the market and the customers have started to buy the products Product in demand	Saves the life of people and animals conserve flora and fauna	Increase in temperature Due to fire increase in the levels of carbon monoxide	Extend for a long period of time
Interactions What interactions do they have at each step along the way? - **People:** Who do they see or talk to? - **Places:** Where are they? - **Things:** What digital touchpoints or physical objects would they use?	Forest Authorities and monitoring via camera	Interact with collected data via CCTV camera or real time video	Identification of Forest fire	Detection of Forest fire	After the detection, the forest fire is extinguished
Goals & motivations At each step, what is a person's primary goal or motivation? ("Help me..." or "Help me avoid...")	Fires removes the low growing underbrush	Opens it up to sunlight nourishes the soil	Low gain toward forest	Reduce the build up of fuel and thus the intensity of future burns	Recycle nutrients bound in filter
Positive moments What steps does a typical person find enjoyable, productive, fun, motivating, delightful, or exciting?	Efficiency and performance is improved	Detection of fire pattern	They clear away diseased trees	Fire intensity	Fuel loading
Negative moments What steps does a typical person find frustrating, confusing, angering, costly, or time-consuming?	Emits CO2 and other harmful gases	Camera fixation location must be safe and reachable	Must be able to pin the location of the fire	Need a good quality camera to detect the fire	Image processing method convolutional is used to detect the fire
Areas of opportunity How might we make each step better? What ideas do we have? What have others suggested?	Real time recording is possible	Video can be converted easily to photos	Flames will trigger the algorithm of detecting the flames	Helpful to reduce the damages	Recovery and back up must be maintained