

# Project Design Phase-II

## Customer Journey Map

Dale	31 October 2022
Team ID	PNT2022TMIDD03399
Team Leader	Somu Vasanth reddy
Team member	PUVVADA VENKATA JASHWANTH KUMAR, Ganesh, HIMANRAJ L
Project Name	Emerging methods for early detection of forest fires

User journey

@ Phases	Ignition	Growth	Fully developed	Decay
Steps	<p>A source of ignition is anything that has the potential to start a fire .</p> <p>E.g. a naked flame or a faulty electrical appliance .</p>	<p>consumers have accepted the product in the market and customers are beginning to truly buyfuel .</p> <p>in . market for the product is expanding and "competition begins developing</p>	<p>Fire has spread over much it's not all the available fuel .</p> <p>temperatures reach their peak .</p> <p>Resulting in heat damage .</p> <p>Oxygen is consumed rapidly .</p>	<p>Usually the longest stage of a fire.</p> <p>They characterized a significant decrease in oxygen or fuel .</p> <p>Putting an end to the fire</p>
Feelings	<p>More precise</p> <p>It control spark timing</p> <p>It improve engine efficiency</p> <p>It improve efficiency and performance</p> <p>👍</p> <p>😊</p>	<p>The major factor that influence the fire growth are fuel arrangement</p> <p>ceiling height, length/width ratio, roof insulation, size and location of openings, heating- ventilation-air conditioning operation.</p> <p>😓</p>	<p>Fire removes low-growing underbrush.</p> <p>Cleans the forest floor of debris.</p> <p>Opens it up to sunlight.</p> <p>Nourishes the soil</p> <p>😎</p>	<p>They kill harmful insects</p> <p>They clear away diseased trees</p> <p>They make way for new trees</p> <p>the ashes add nutrients to the soil</p> <p>😈</p>
Pain points	<p>No matter the cause , wildfires still require three key components to ignite and eventually spread :fuel heat and oxygen These components are commonly referred to as the fire triangle</p>	<p>Wildfires can disrupt transportation,communications, power and gas services, and contribute to wildfires</p> <p>water supply. They also lead to a deterioration of the air quality, and loss of property, crops, resources. animals and people</p>	<p>Human carelessness is the biggest factor</p>	<p>Fire detection systems has many limitations, such as the limited amount of energy, the energy required for data processing, the short range of communication and limited computations, the complexity of ML algorithms when executing on sensor nodes</p>
Opportunities	<p>Fire removes low Growing underbrush</p> <p>Cleans the forest floor of debris</p>	<p>Opens it up to sunlight</p> <p>Nourishes the soil</p>	<p>Fire frequencies determine the over storey coniferous composition</p> <p>Desires developing a natural space among the stands</p>	<p>It plays a role in recycling nutrients from the ground — layer vegetation and litter to the over storey trees.</p> <p>Thereby counteracting the infertile substrates and arrested decay</p>