






Project Design Phase-II

Customer Journey Map

Date	19 October 2022
Team ID	PNT2022TMID42886
Project Name	Emerging methods for early detection of forest fires
Maximum Marks	4 Marks

Customer Journey

	<div></div> <div>Entice</div> <div>How does someone initially become aware of this process?</div>	<div></div> <div>Enter</div> <div>What do people experience as they begin the process?</div>	<div></div> <div>Engage</div> <div>In the core moments in the process, what happens?</div>	<div></div> <div>Exit</div> <div>What do people typically experience as the process finishes?</div>	<div></div> <div>Extend</div> <div>What happens after the experience is over?</div>
<div>Scenario</div> <div>Browsing, booking, attending, and rating a local city tour</div>					
<div>Steps</div> <div>What does the person (or group) typically experience?</div>	<div>A source of ignition is anything that has the potential to start a fires .</div> <div>Keep tracking of climate changes.</div>	<div>consumers have accepted the product in the market and customers are beginning to truly buy in .</div> <div>Market for the product is expanding and competition begins developing.</div>	<div>To avoid risk for animals.</div> <div>Detecting fire and identify where it started.</div>	<div>Fire has spread over much if not all the available fuel . Temperatures reach their peak .</div> <div>Resulting in heat damage . Oxygen is consumed rapidly</div>	<div>Usually the longest stage of a fire. Putting an end to the fire .</div> <div>They characterized a significant decrease in oxygen or fuel .</div>
<div>Interactions</div> <div>What interactions do they have at each step along the way?</div> <div><div>• People: Who do they see or talk to?</div><div>• Places: Where are they?</div><div>• Things: What digital touchpoints or physical objects would they use?</div></div>	<div>forest officer</div> <div>forest area</div> <div>web camera</div> <div>Interact with video frame camera for collecting images.</div>	<div>Identify the fire</div>	<div>Detect forest fire</div>	<div>After detect forest fire, forest fires will be extinguished.</div>	
<div>Goals & motivations</div> <div>At each step, what is a person's primary goal or motivation? ("Help me..." or "Help me avoid...")</div>	<div>Fire removes low growing underbrush Clears the forest floor of debris</div> <div>Opens it up to sunlight Nourishes the soil</div>	<div>Gain love towards nature.</div>	<div>Fire frequency determine the over story of coniferous composition Besides developing a natural space among the stands.</div> <div>It plays a role in recycling nutrients from the ground - layer vegetation and litter to the over storey trees.</div> <div>Thereby counteracting the infertile substrates and arrested decay.</div>		
<div>Positive moments</div> <div>What steps does a typical person find enjoyable, productive, fun, motivating, delightful, or exciting?</div>	<div>More precise It control spark timing It improve engine efficiency It improve efficiency and performance.</div> <div>The major factor that influence the fire growth are fuel arrangement, cooling heights, length with width, more instability, also and number of openings, heating, ventilation and conditioning operation</div>	<div>Detection of fire pattern.</div>	<div>They kill harmful insects. They clear away diseased trees.</div> <div>They make way for new trees. The ashes add nutrients to the soil.</div>		
<div>Negative moments</div> <div>What steps does a typical person find frustrating, confusing, angering, costly, or time-consuming?</div>	<div>No matter the cause, wildfires still require three components: lightning and eventually spread heat, fuel and oxygen. These components are commonly referred to as the fire triangle.</div> <div>wildfire emit co2 and other green house gases.</div>	<div>Wildfires can disrupt transportation, communications, power and gas services, and water supply.</div> <div>They also lead to a deterioration of the air quality, and loss of property, crops, resources, animals and people.</div>	<div>Human consciousness is the biggest factor contributing to wildfires.</div> <div>Fire detection systems has many limitations, such as the limited amount of energy, the energy required for data processing.</div> <div>The short range of communication and limited capabilities, the complexity of AI algorithms when analyzing on sensor nodes.</div>		
<div>Areas of opportunity</div> <div>How might we make each step better? What ideas do we have? What have others suggested?</div>	<div>high-resolution static cameras fixed on the ground.</div> <div>unmanned aerial vehicles (drones)</div>			<div>Helpful for future</div>	