













Project Design Phase-II

Customer Journey Map

Date	16 October 2022
Team ID	PNT2022TMID04128
Project Name	Emerging methods for early detection of forest fires
Maximum Marks	4 Marks

Customer Journey

	 Entice How does someone initially become aware of this process?	 Enter What do people experience as they begin the process?	 Engage In the core moments in the process, what happens?	 Exit What do people typically experience as the process finishes?	 Extend What happens after the experience is over?
 Scenario Browsing, booking, attending, and rating a local city tour					
 Steps What does the person (or group) typically experience?	A source of ignition is anything that has the potential to start a fires .	Keep tracking of climate changes.	consumers have accepted the product in the market and customers are beginning to truly buy in . Market for the product is expanding and competition begins developing.	To avoid risk for animals.	Detecting fire and identify where it started.
 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 officer web camera forest area	Interact with video frame camera for collecting images.	Identify the fire	Detect forest fire	After detect forest fire, forest fires will be extinguished.
 Goals & motivations At each step, what is a person's primary goal or motivation? ("Help me..." or "Help me avoid...")	Fire removes low growing underbrush Clears the forest floor of debris	Opens it up to sunlight Nourishes the soil	Gain love towards nature.	Fire frequencies determine the over story of coniferous competition Involves developing a natural space among the stands	It plays a role in recycling nutrients from the ground - tree regeneration and litter to the over story trees. Thereby counteracting the infertile substrates and arrested decay.
 Positive moments What steps does a typical person find enjoyable, productive, fun, motivating, delightful, or exciting?	More precise It control spark timing It improve engine efficiency It improve efficiency and performance.	The major factor that influence the fire growth rate is temperature colony height, length with other more moisture, air and location of openings, leading to additional conditioning operation	Detection of fire pattern.	They kill harmful insects. They clear away diseased trees.	They make way for new trees. The ashes add nutrients to the soil.
 Negative moments What steps does a typical person find frustrating, confusing, angering, costly, or time-consuming?	No matter the cause, wildfires will require three components to ignite and eventually spread: fuel, heat and oxygen. These components are commonly referred to as the fire triangle.	wildfire emit co2 and other green house gases.	Wildfires can disrupt transportation, communications, power and gas services, and water supply. They also lead to a deterioration of the air quality, and loss of property, crops, resources, animals and people.	Human consciousness is the biggest factor contributing to wildfires.	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 capabilities, the complexity of ML algorithms when operating on sensor nodes.
 Areas of opportunity How might we make each step better? What ideas do we have? What have others suggested?	High-resolution static cameras fixed on the ground. unmanned aerial vehicles (drones)				Helpful for future