Project Design Phase-II
Customer Journey Map

Date	14 October 2022
Team ID	PNT2022TMID46933
Project Name	Emerging methods for early detection of forest fires
Maximum Marks	4 Marks

Customer Journey

SCENARIO Browsing, booking, attending, and rating a local city tour	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?
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 fre and identify where it started.	Fire has spread over much if not all the available fuel . Temperatures reach their peak . / Resulting in heat damage . Oxygen is consumed rapidly	Usually the longest stage of a fire. Putting an end to the fire . / They characterized a significant decrease in oxygen or fuel .
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 / forest area / web camera	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 storey of coniferous composition Besides developing a natural space among the stands .	It plays a role in recycling nutrients from the ground – layer vegetation and litter to the over storey 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 inhance the tio growth are fuel arrangement ceiling height, length of width rate, room insulation, size and location of openings, heating- ventilation air 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 still 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 carelessness 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 computations, the complexity of ML algorithms when executing 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 (UAVs				Helpful for future