

Project Design Phase-I

Problem – Solution Fit Template

Date	15 September 2022
Team ID	PNT2022TMID25656
Project Name	Project – EMERGING METHODS FOR EARLY DETECTION OF FOREST FIRE
Maximum Marks	2 Marks

Project Title: Emerging Methods for early detection of forest fire

Project Design Phase-I - Solution Fit Template

Team ID: PNT2022TMID15454

Define CS, fit into CC	1. CUSTOMER SEGMENT(S) Who is your customer? I.e. working parents of 0-5 y.o. kids. CS	6. CUSTOMER CONSTRAINTS What constraints prevent your customers from taking action or limit their choices of solutions? I.e. spending power, budget, no cash, network connection, available devices. CC	5. AVAILABLE SOLUTIONS Which solutions are available to the customers when they face the problem or need to get the job done? What have they tried in the past? What pros & cons do these solutions have? I.e. pen and paper is an alternative to digital notetaking. AS	Explore AS, differentiate
	The forest resources which plays a vital role in sustaining lives on the earth, therefore to preserve them from unexpected outbreak of fire and smoke. The forest management team do need this device in fire prone areas.	Climatic changes and the greenhouses gases are the reasons behind the destruction. Along with this the human factor to greedily use resources also play a vital reason for the forest fires.	Existing systems uses optical sensors for detecting forest fires. As fire is detected the sensors sends signal to the office of forest management. Among with that satellites are used to detect IR rays spotted in forest lands.	
Focus on J&P, tap into BE, understand RC	2. JOBS-TO-BE-DONE / PROBLEMS Which jobs-to-be-done (or problems) do you address for your customers? There could be more than one; explore different sides. J&P	9. PROBLEM ROOT CAUSE What is the real reason that this problem exists? What is the back story behind the need to do this job? I.e. customers have to do it because of the change in regulations. RC	7. BEHAVIOUR What does your customer do to address the problem and get the job done? I.e. directly related: find the right solar panel installer, calculate usage and benefits; indirectly associated: customers spend free time on volunteering work (I.e. Greenpeace) BE	Focus on J&P, tap into BE, understand RC
	The main problem that exists is weather and climate by releasing large number of carbon dioxide, carbon monoxide and fine particulate matter into the atmosphere.	The reasons possible are: 1. Due to natural causes- Lightning 2. Man-made causes- Naked flame, cigarette, electric spark Thus, continuous care and monitoring is needed to preserve natural resources to save lives.	When fire is detected the system which is implemented to monitor the forests sets the alarm to ring, that is it gives the signal through which fire management team and the forest committee tries to call off the fire. Thus, the aim is to recognize the fire as early as possible to prevent spread of fire which will cause further damage to control.	

3. ?BGGERS

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The unconscious behavior towards burned cigarette left, chances of leaving the campfire remained burnt and electric supply being disrupted

4. EMOTIONS: BEFORE / AFTER

EM

and afterwards?

Wildfires can cause lot of stress since the factor that influence their direction and intensity are unpredictable and can change at anytime. People who have lived through wildfires can face dramatic mood swings, anxiety and mood-swings.

10. YOUR SOLUTION TO N

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To minimize these losses, we have proposed a solution to detect early detection of forest fires by using CCTV camera surveillance, which can detect fire in indoor and outdoor activities. Thus instant alerts has to be sent to the forest management office so that they can take further actions to disrupt the damage caused by the fire.

8. CHANHEL.SMBEHACOUR

9. ?NLINL

6. ?FFLINL

Online Detection! Thus the chatbot or the API can connect through internet to feed you with the current status of the forest.

Offline Detection: Thus, the forest management can send notice to the nearby residential areas or the media can bring the awareness through news, radio.