Project Design Phase-I Problem - Solution Fit Template

Date	15 September 2022
Team ID	PNT2022TMID28445
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

1. CUSTOMER SEGMENT(S) 6. CUSTOMER CONSTRAINTS 5. AVAILABLE SOLUTIONS AS Which solutions are available to the customers when they face the problem CS Who is your customer? i.e. working parents of 0-5 y.o. kids 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. 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 fit into CC 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. 7. BEHAVIOUR 2. JOBS-TO-BE-DONE / PROBLEMS 9. PROBLEM ROOT CAUSE Which jobs-to-be-done (or problems) do you address for your customers? There could be more than one; explore different sides. 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 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. associated: customers spend free time on volunteering work (i.e. Greenpeace) 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, When fire is detected the system which is implemented to monitor the forests sets the alarm to ring, that is cigarette, electric spark it gives the signal through which fire management team and the forest committee tries Thus, contineous care and to call off the fire. Thus, the aim is to monitoring is needed to recognize the fire as early as possible preserve natural resources to to prevent spread of fire which will save lives. cause further damage to control.

3.?BGGERS



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

4. EMOTIONS: BEFORE / AFTER



ind afterwards?

10. YOUR SOLUT TO N

SL

To minimize these loses, 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.CHANHELSMBEHACOUR

s. ?NLINL

s. ?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.

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.