Project Design Phase-I - Solution Fit

Team ID: PNT2022TMID21245
Project Title: Industry-specific intelligent fire management system

Define CS, fit into C

1. CUSTOMER SEGMENT(S) CS

Who is your customer?

Industry people – Industries would be using this Intelligent Fire Management system for warning the fire accidents.

6. CUSTOMER CONSTRAINTS CC

What constraints prevent your customers from taking action or limit their choices of solutions?

All industry workers need to have a smart devices(smart phone) and also must have connected network

5. AVAILABLE SOLUTIONS AS

Which solutions are available to the customers when they face problem

In the prior systems, the main objective is to switch on the alarms and sprinklers if the environmental readings from the sensors cross the pre-determined threshold.
If the admin wants to know about the see about the status he/she needs to log in to cloud

Explore AS, differe

Focus on J&P, tap into BE, understand RC

2. JOBS-TO-BE-DONE / PROBLEMS J&P

Which jobs-to-be-done (or problems) do you address for your customers?

Fire Management system for industries which is to be designed using IOT and cloud.

9. PROBLEM ROOT CAUSE RC

What is the real reason that this problem exists? What is the back story behind the need to do this job?

If there is a sudden outbreak of fire accidents in industry, they cannot predict the current situation before they arise. It may lead to loss of life and property. So, this is the main reason for the designing of this solution.

7. BEHAVIOUR BE

What does your customer do to address the problem and get the job done?

The industry workers need to check the web app periodically and if there is any fire accident they will get alert message. so, that they can take mandatory actions.

Focus on J&P, tap into BE, understand RC

3. TRIGGERS TR

What triggers customers to act?

When industries decide to protect their life and products from destruction due to sudden fire accidents, they would be triggered to buy this designed IOT solution

10. YOUR SOLUTION SL

The smart fire management system includes a Gas sensor, Flame sensor and temperature sensors to detect the current environmental parameters and to know any deviations from the pre-determined threshold. Based on the

8. CHANNELS of BEHAVIOUR CH

8.1 **ONLINE**

What kind of actions do customers take online? Extract online channels from #7

If there are any fire accidents, they can get alert message from the web app.

8.2 **OFFLINE**

What kind of actions do customers take offline? Extract

— d e n t i f

	4. EMOTIONS: BEFORE / AFTER EM How do customers feel when they face a problem or a job and afterwards? **Emotions before:** Prior to the solution, they will be worrying about the losses that occur due to fire accidents. **Emotions after:** If they face a sudden fire accident, they feel that they can control the current situation(because Temperature and smoke values read from sensor can be viewed by the admin through the web application at anytime) and also they know how to rectify it(alarms and sprinklers would be activated automatically)	temperature readings and smoke level, if any dangerous gases are detected, the exhaust fans are powered ON. (exhaust fans – actuators) If any flame is detected the sprinklers will be switched on automatically. Emergency alerts are notified to the authorities automatically.	offline channels from #7 and use them for customer development. If the currently collected sensor value deviate from the threshold value, they get alarms and warnings