

Project Design Phase-I
Problem – Solution Fit Template

Date	01 November 2022
Team ID	PNT2022TMID48761
Project Name	Hazardous Area Monitoring for Industrial Plant powered by IoT
Maximum Marks	2 Marks

Problem – Solution Fit:

Define CS, fit into CC	<p align="right">CS</p> <p>3. CUSTOMER SEGMENT(S)</p> <p>Companies who are constructed in hazardous areas</p>	<p align="right">CC</p> <p>6. CUSTOMER CONSTRAINTS</p> <ul style="list-style-type: none"> ● Spending power ● Continuous monitoring ● Immediate actions 	<p align="right">AS</p> <p>5. AVAILABLE</p> <p>Once they find out there is a disaster going to happen , the information does not spread among the workers effectively . It may save lives but not completely</p>	Explore AS, differentiate

Focus on J&P, tap into BE, understand RC	<p align="right">J&P</p> <p>4. JOBS-TO-BE-DONE / PROBLEMS</p> <p>Avoiding disaster death caused by working environment</p>	<p align="right">RC</p> <p>10. PROBLEM ROOT CAUSE</p> <p>Explosions or sudden temperate rise and overheating malfunctioning of equipment's .</p>	<p align="right">BE</p> <p>7. BEHAVIOUR</p> <p>Once there is a temperature rise it will immediately act . Then the precautions must be taken immediately.</p>	Focus on J&P, tap into BE, understand RC

<p>3. TRIGGERS</p> <p>A device which will continuously monitor the workers body temperature and environment temperature makes them feel safe and taken cared.</p>	<p>10. YOUR SOLUTION</p> <p>This problem can be overcome by using IoT. By implementing IoT, We are able to monitor the surroundings of the workers as well as their body condition.</p>	<p>8. CHANNELS of BEHAVIOUR</p> <p>8.1 ONLINE</p> <p>Their is a temperature values are continuously verified and stored in cloud.</p> <p>8.2 OFFLINE</p>
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4. EMOTIONS: BEFORE / AFTER

They feel unsafe before the installation; Once they got monitored they will safe and someone is taken care over us.

They are provided with a wearable device to wear while working .

2. JOBS-TO-BE-DONE / PROBLEMS

J&P

Avoiding disaster death caused by working environment

9. PROBLEM ROOT CAUSE

RC

Explosions or sudden temperate rise and overheating malfunctioning of equipment's .

7. BEHAVIOUR

BE

Once there is a temperature rise it will immediately act . Then the precautions must be taken immediately.

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