

Project Design Phase-I Problem – Solution Fit

Date	1 st October 2022
Team ID	PNT2022TMID38337
Project Name	Industry specific intelligent fire management system
Maximum Marks	2 Marks

Problem – Solution Fit :

Define CS, fit into CC	<div>1. CUSTOMER SEGMENT(S)</div> <div>Our project is specified for conventional industries.</div>	<div>6. CUSTOMER CONSTRAINTS</div> <div><ul style="list-style-type: none">• Improper communication• Panic ness to the situation• Lack of awareness</div>	<div>5. AVAILABLE SOLUTIONS</div> <div><ul style="list-style-type: none">• Traditionally, fireextinguisheris usedto contain fire in the buildings.• Then later fire sprinklers aids the problem.• Asthe technology advances Internet of thingspilsayinghuge partin firemanagement systems.</div>	Explore AS, differentiate
	<div>2. JOBS-TO-BE-DONE /PROBLEMS</div> <div><p>Now a days fire accidentin buildings has becomea very common incident. As the structuraldesign of modernbuildings are complex andaugmented, fire accidentvictimsoftenfind it difficulto identifya safepath to exitthe building.</p><p>Fire alarmsystems promisesto be Effectiveif theycangenerate reliableandfastfirealerts with exactlocationof fire.</p></div>	<div>9. PROBLEM ROOTCAUSE</div> <div><p>Exposed wiring, overloaded outlets, overloaded circuits, static discharge are commonfire hazards.</p><p>The sourceof the fire can be anywhere- it may just cause a spark and the dust may become theignitionsource.</p></div>	<div>7. BEHAVIOUR</div> <div><p>Usage offireextinguisher.</p><p>Internetof things cancommunicatewith the helpof processorsand wirelessnetworkswithoutanyhumanbeinginvolved.</p><p>For this reason, with a view to reducingthese brutaldeathsand tragedy of the affectedmass, an effectiveIoT based intelligentsystemcanbe developed.</p></div>	
<div>3. TRIGGERS</div> <div>It vital to make use of robust monitoring system.</div>	<div>10. YOURSOLUTION</div> <div><ul style="list-style-type: none">• The smart fire managementsystem includes a Gas sensor, Flame sensorandtemperaturesensorsto detectanychanges in the environmen.t• Based on the threshold value of sensors further processis structured.• If any flame is detectedthe sprinklerswill be switchedon automatically.• Emergencyalertsarenotifiedto the enduserandFire station.</div>	<div>8.CHANNELS ofBEHAVIOUR</div> <div><div>1. ONLINE</div><div>General knowledge related to containing fire attacks</div></div> <div><div>8.2OFFLINE</div><div>Using fire extinguisher and sand buck.ets</div></div>	Extractonline& offlineCHof BE	
<div>4. EMOTIONS: BEFORE A/FTER</div> <div><p>Before: Distress, paini,replaceableloss</p><p>After: Relief,assurance, Reliability.</p></div>				