

Project Design Phase-I

Solution Fit

IoT Based Safety Gadget for Child Safety Monitoring and Notification

Team ID: PNT2022TMID11653

Define CS, fit into CC	<div>1. CUSTOMER SEGMENT(S)<div>CS</div></div> <div>Parents of children who are office going or busy and desperately need to take care of the kid despite their absence are the customers of this project</div>	<div>6. CUSTOMER CONSTRAINTS<div>CC</div></div> <div><div><div>• Network connection</div><div>• Cost of the gadget</div><div>• Power maintenance</div><div>• Knowledge required to use the technology built</div></div></div>	<div>5. AVAILABLE SOLUTIONS<div>AS</div></div> <div><div><div>• Network connection is the basic requirement as it is an IoT project instead GSM can also be used to send message without using internet</div><div>• Power maintenance requires use of cell batteries similar to other home appliances setup</div><div>• To develop knowledge about project a well detailed manual or demonstration can be done</div></div></div>	Explore AS, differentiate
	<div>2. JOBS-TO-BE-DONE / PROBLEMS<div>JAP</div></div> <div>Three jobs to do 1.Child - Location tracking 2.Mapping the coordinates 3.Send the location to parents</div>	<div>9. PROBLEM ROOT CAUSE<div>RC</div></div> <div>Ensure safety of the child: Children being naughty in nature might require immediate medical help or in case child lost the way back home For such scenario it is important for parents to check on their kid from time to time</div>	<div>7. BEHAVIOUR<div>BE</div></div> <div>Parents must choose products where the GPS location of the child is shared to their devices other features like vital signs, alert messages can also be added with respect to scalability and feasibility</div>	
Identify strong TR & EM	<div>3. TRIGGERS<div>TR</div></div> <div>The necessity to ensure children are safe</div>	<div>10. YOUR SOLUTION<div>SL</div></div> <div><div><div>1.Location tracking by GPS module</div><div>2.Mapping coordinates using websites that decodes the location</div><div>3.Use cloud services to provide the above information to the parents</div></div></div>	<div>8.CHANNELS of BEHAVIOUR<div>CH</div></div> <div><div>8.1 ONLINE Parents use internet to connect to the cloud to see location of the child so being online is a crucial step</div><div>8.2 OFFLINE Parents must ensure that the child is wearing the gadget regularly for optimized monitoring</div></div>	Identify strong TR & EM
	<div>4. EMOTIONS: BEFORE / AFTER<div>EM</div></div> <div><div>BEFORE :Anxiety No idea about the status of the child</div><div>AFTER : Relief After knowing about the location of the child</div></div>			