Project Design Phase-I Proposed Solution Template

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| Team ID | PNT2022TMID30639 |
| Project Name | Project - IOT Based Safety Gadget for Child Safety Monitoring &Notification |
| Maximum Marks | 2 Marks |

**Proposed Solution :**

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| **S.No.** | **Parameter** | **Description** |
| 1. | Problem Statement (Problem to be solved) | Child kidnappers continue to kidnap children away from their parents or other legal guardians in order to demand a ransom or other payment for their own gain. Where parents are left with no choice but to see their children's intuitions in their exact context. More precautions must be taken to safeguard children against kidnapping and its effects because the crisis that results from it can be extremely harsh and eternal. |
| 2. | Idea / Solution description | Our IOT smart device for child tracking was created to help parents spot problems.  In this project, we'll create a wearable safety device that can show a child's current location to a parent at any time, ensuring their safety. When the kids are within Bluetooth range, the app helps parents find them, and it also works when the kids travel farther. If you live in densely populated places like cities or large towns, it excels as a tracker.  This implies that they will be able to identify the participating devices, which reduces their exposure in dangerous situations and also safeguards the kids in case of an emergency. |
| 3. | Novelty / Uniqueness | The system software sends a text message to the parent or guardian inadvertently to notify them.  IOT devices respond intelligently in emergencies without the need for human intervention thanks to a number of characteristics, such as the advancement of sensor technology, the availability of internet-connected devices, and data processing algorithms. |
| 4. | Social Impact / Customer Satisfaction | The topic of kidnapping children is a hot one everywhere. This complex crime has the potential to harm a child's future. Parents need to make sure that |

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|  |  | Their young ones are safe and have been shielded from the risk of harm. In the event that a scenario arises, notifications will be sent to the parents so that actions can be taken when it is most appropriate. By doing this, child safety can be ensured and the crime rate will be reduced.  When a parent is away from them, they can keep their kids safe and stress-free. Parents will feel more at ease if problems involving children can be quickly detected and accurately predicted. It will be very useful for working parents who don't have time to watch over their kids, and it's simple to use so anyone can use it. |
| 5. | Business Model (Revenue Model) | This would be desired in the modern market because children today require additional protection. The device is reasonably priced and available. Whereas Our device is the basis for a significant revolution in goods because it has a number of inventive features and would be useful to everyone. This gadget has a lot of subscriptions for tracking and notification support. |
| 6. | Scalability of the Solution | This idea could be improved any further by installing a little camera within a smart device for exceptional security and protection so that, in an emergency, a parent's phone can show live footage. If a problem arises, parents can view certain characteristics, such as the child's location, temperature, and heartbeat, as well as the surroundings without deterring the youngsters. |