**Project Design Phase-I**

**Proposed Solution Template**

|  |  |
| --- | --- |
| Date | 9 November 2022 |
| Team ID | PNT2022TMID07666 |
| Project Name | IOT Based safety gadget for child safety monitoring and notification |
| Maximum Marks | 2 Marks |

**Proposed Solution Template:**

Project team shall fill the following information in proposed solution template.

|  |  |  |
| --- | --- | --- |
| **S.No.** | **Parameter** | **Description** |
|  | Problem Statement (Problem to be solved) | The child needs to be monitored even when the parents are distracted. A momentary lack in parental supervision should be combated with an appropriate IT solution in context. The child needs to stay generally within the line of sight. It is necessary for the proposed system to alert the parents when the child walks too far away and outside the „circle of safety‟ (generally the parents‟ line of vision), even if the parents are distracted. If the child does go missing, the aid of technology can increase efficiency and decrease the time necessary to locate the child. The child needs to be located, only at the will of the authorized persons (the parents). Once there is data available about the location of the missing child, this data needs to be displayed as information that the parents can easily understand and use. |
|  | Idea / Solution description | Some previous studies have been included for designing the IOT-based child security smart band. It assists parents to monitor their children remotely. In case situations happen, notifications will be sent to parents so that actions can be taken. Through this, child safety can be ensured and crime rate will be reduced. |
|  | Novelty / Uniqueness | The novelty of the work is that the system automatically alerts the parent/caretaker by sending SMS, when immediate attention is required for the child during emergency.The parameters such as touch, temperature &heartbeat of the child are used for parametric analysis and results are plotted for the same |
|  | Social Impact / Customer Satisfaction | The device has IOT monitoring and a GSM module that allows the child to be monitored at all times. It also has numerous sensors that are connected to a CPU and are used to detect exact signals such as heart rate, temperature, and other dangers and alert the parents. |
|  | Business Model (Revenue Model) | Every parent’s biggest concern is their child’s wellbeing and thus we are here with useful gadgets to ensure kid’s safety .Regrettably your children will remain unsafe throughout their growing years until they know how to protect themselves. Till the time they are old enough to take care of themselves, you can use various gadgets as you deem appropriate to safeguard them. |
|  | Scalability of the Solution | The aim of this device is to provide safety to the child by allowing the parent to locate the child and view their surroundings. This device can be used to monitor the temperature and motion of the child**.** |