**Project Design Phase-II**

**Solution Requirements (Functional & Non-functional)**

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| Date | 25 October 2022 |
| Team ID | PNT2022TMID52022 |
| Project Name | IoT Based Safety Gadget For Child Safety Monitoring & Notification. |
| Maximum Marks | 4 Marks |

**Functional Requirements:**

Following are the functional requirements of the proposed solution.

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| **FR No.** | **Functional Requirement (Epic)** | **Sub Requirement (Story / Sub-Task)** |
| FR-1 | User Registration | Registration through Form  Registration through Gmail  Registration through LinkedIN |
| FR-2 | User Confirmation | Confirmation via Email  Confirmation via OTP |
| FR-3 | Temperature sensor | If the temperature of the child exceeds the threshold, then an alert will be sent to parents mail.id. |
| FR-4 | Respiratory Rate sensor | If the respiratory rate of the child exceeds the threshold, then an alert will be sent to parents mail.id. |
| FR-5 | Pulse Rate detection | If the pulse of the child exceeds the threshold, then an alert will be sent to parents mail.id. |
| FR-6 | GPS | The parents can detect their child location. |

**Non-functional Requirements:**

Following are the non-functional requirements of the proposed solution.

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| **FR No.** | **Non-Functional Requirement** | **Description** |
| NFR-1 | **Usability** | This is used for child safety via mail id. |
| NFR-2 | **Security** | This is used to secure their kids. |
| NFR-3 | **Reliability** | The parents can save their children from danger. |
| NFR-4 | **Performance** | It sends notification to the parents when their child is in critical condition. |
| NFR-5 | **Availability** | Through the development of the child safety, the parents can manage their kids. |
| NFR-6 | **Scalability** | The project is very much efficient because it is based on IOT. |