Functional & Non-functional Requirements

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| Date | 11-07-2022 |
| Project Name | Project – IOT-Based Safety Gadget for Child Safety Monitoring and Notification |
| Maximum Marks | 4 Marks |

# Functional Requirements:

Following are the functional requirements of the proposed solution.

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| **SI No.** | **Functional Requirement (Epic)** | **Sub Requirement (Story / Sub-Task)** |
| 1. | User Registration | Registration through Form Registration through Gmail Registration through LinkedIn |
| 2. | User Confirmation | Confirmation via Email Confirmation via OTP |
| 3. | Authentication | Only the authorized person for that product will know Ensures security |
| 4. | User Interface | The Inventor Able to see the location of children when they are out of geofence will also track the exact information about the children |
| 5. | Notification | Notified through mobile and mail |

# Non-functional Requirements:

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

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| **SI No.** | **Non-Functional Requirement** | **Description** |
| 1. | Usability | Accessed through Mobile App Showing location (latitude and longitude) of child and also other measures to ensure safety like notification. Portable and comfortable to use. |
| 2. | Security | Database security and ensuring the safety of the product while in use. |
| 3. | Reliability | Once logged in, the webpage is available until logging out of the app, and a comfortable platform or creates a good environment for users to use. |
| 4. | Performance | Each page must load within 4 seconds and database needs to be updated every few seconds and a notification must be sent immediately if seen a  change in the child’s location. |

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| 5. | Availability | The data must be available whenever needed and the product should be able to use at any time. |
| 6. | Scalability | The process must be flexible to use at anytime and versatile. |