Project Design Phase-II

Solution Requirements (Functional & Non-functional)

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| Date | 16 October 2022 |
| Team ID | PNT2022TMID01821 |
| 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 website Registration through app |
| FR-2 | User Confirmation | Confirmation via Email Confirmation via OTP |
| FR-3 | User login | Setting up User Id and password |
| FR-4 | App permission | Grant the permission for the app to access location, contact etc.. |
| FR-5 | Interface with the Device | Connecting the device with the registered app with the device ID. |
| FR-6 | Setting Geo-location | Creating the Geo-location area in the map |
| FR-7 | Database | Location history is stored in the cloud. Can be accessed from the dashboard. |
| FR-8 | Tracking location | Tracking the location through app. Tracking the location through website. |

# 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** | The device and its applications are user-friendly. The device is portable and easy to use. |
| NFR-2 | **Security** | Providing permission for some information can only be decided by the user.  Location data can only be viewed by the user. |
| NFR-3 | **Reliability** | An update will be provided if any errors are found in the device. |
| NFR-4 | **Performance** | The performance of the device decrease in a network less area.  No interference between users. Location tracking will be accurate. |
| NFR-5 | **Availability** | If there is any update then the device wont be able to operate for a amount of time. |
| NFR-6 | **Scalability** | A single device can be monitored by two users. |