Project Design Phase-II

Solution Requirements (Functional & Non-functional)

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| Project Name | Project **-** IoT Based Safety Gadget for Child Safety Monitoring and Notification |

# Functional Requirements:

Following are the functional requirements of the proposed solution.

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| **Functional Requirement (Epic)** | **Sub Requirement (Story / Sub-Task)** |
| User Registration | Registration through website Registration through app |
| User Confirmation | Confirmation via Email Confirmation via OTP |
| User login | Setting up User Id and password |
| App permission | Grant the permission for the app to access location, contact etc.. |
| Interface with the Device | Connecting the device with the registered app with the device ID. |
| Setting Geo-location | Creating the Geo-location area in the map |
| Database | Location history is stored in the cloud. Can be accessed from the dashboard. |
| 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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| **Non-Functional Requirement** | **Description** | |
| **Usability** | The device and its applications are user-friendly. The device is portable and easy to use. | |
| **Security** | Providing permission for some information can only be decided by the user.  Location data can only be viewed by the user. | |
| **Reliability** | An update will be provided if any errors are found in the device. | |
| **Performance** | | The performance of the device decrease in a network less area.  No interference between users. Location tracking will be accurate. |
| **Availability** | | If there is any update then the device wont be able to operate for a amount of time. |
| **Scalability** | | A single device can be monitored by two users. |