IOT BASED SAFETY GADGET FOR CHILD SAFETY MONITORING AND NOTIFICATION

TEAM   ID   : PNT2022TMID44697

TEAM   LEADER   : YUKESH G (511519106301)

TEAM MEMBERS : ANBUMANI D (511519106302)

HARISH R D (511519106303)

SHYAM D (511519106304)

SANJAY J (511519106702)

JAGADEESAN U (511519106703)

DEPARTMENT   : ELECTRONICS AND COMMUNICATION ENGINEERING

COLLEGE NAME : P.T.LEE CHENGALVARAYA COLLEGE OF ENGINEERING AND TECHNOLOGY, OOVERY, KANCHIPURAM.

FUNTIONAL REQUIREMENTS

- The system shall allow the user or family's to register phone number.

- The system shall provide report for the ongoing day to day activity both for the schools and families.

- The system should provide all the sensed data from each sensor send by text message.

- The system shall check the sensed data with the threshold value of each input.

- The system shall notify the user while the input value exceed or become below the threshold value.

NON – FUNCTIONAL REQUIREMENTS

- The system shall give the accurate result for different factors using sensing material as a result their will not be any distractive damage.

- The system shall be maintainable whenever faller occurs.

- Sometime the GPS module works on rainy condition.

- The system is cost effective comparing to the features it provides.

- The system shall be usable within a few minutes training.

DATA FLOW DIAGRAM

```
   ┌──────────┐
   │   GPS    │──────────┐
   └──────────┘          │
                         ▼
                    ┌──────────┐              ☁ Webpage
                    │ Nodemcu  │
   ┌──────────────┐ │          │
   │ Panic Button │→│ ESP8266  │
   └──────────────┘ │          │
                    │          │
   ┌──────────┐     │          │
   │  Buzzer  │◄────│          │
   └──────────┘     └──────────┘
```