

## Project Design Phase-I Solution Architecture

Date	10 October 2022
Team ID	PNT2022TMID04590
Project Name	IoT based safety gadget for child safety and notification system
Maximum Marks	4 Marks

### **Solution Architecture:**

Solution architecture is a complex process – with many sub-processes – that bridges the gap between business problems and technology solutions. Its goals are to:

- To solve the existing business or society problem, we need to find the right technology and make use of it as much as possible.
- Describe the structural, behavioral characteristics and other aspects of the software to project stakeholders.
- Define the steps involved, features need to be focused, development phases of our target, and solution requirements needed to implement it.
- Provide specifications to resolve the problem statement according to which the solution is defined, managed, and delivered.

### **FEATURES:**

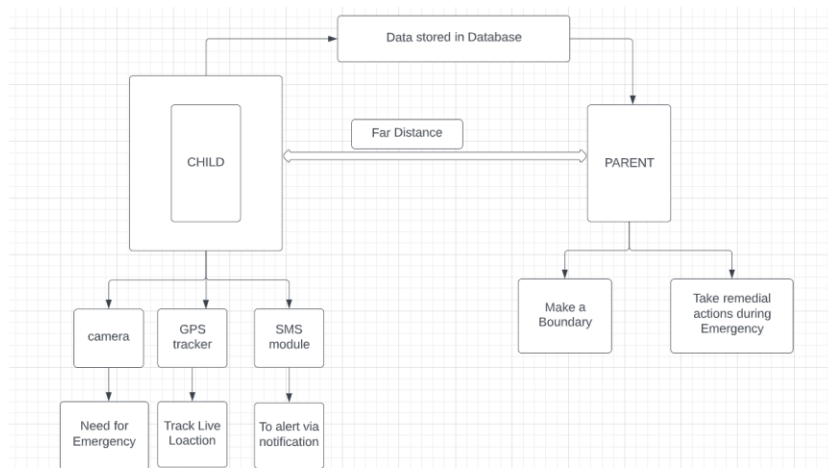
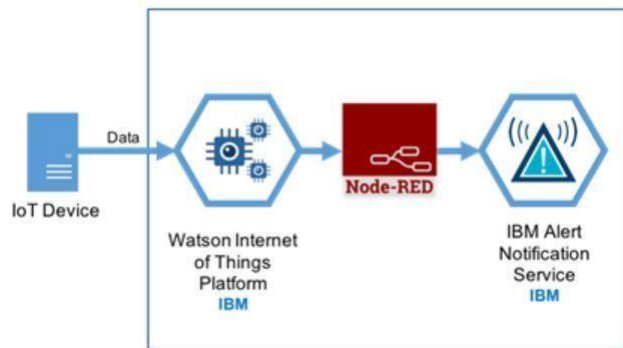
Without the direct involvement of the parents we can monitor the child with the help of IOT based child monitoring system.

- Geo fence ( specify boundary)
- GPS ( to track live location )
- Notification or SMS ( to alert the parents )

### **SOLUTION:**

- ❖ The parent can make a Geofence around their required surroundings and the device will send the child's live location.
- ❖ If the child crossed the boundary, then the device will send notification and alert the parent. It also allows them to monitor the current weather condition in the area, where child present. During dangerous situation, the camera will record the surroundings and make it to know to their parents.

## SOLUTION ARCHITECTURE DIAGRAM:



*Architecture and data flow of the child safety gadget system*