# NALAIYA THIRAN WEEK 6 REPORT

**Phase 3 Description:** Project Design Phase -I (Proposed Solution, Problem Solution Fit, Solution Architecture)

3.3 Prepare problem - solution fit document & Solution Architecture

# **Problem Solution Fit**

Explore AS, differentiate 1. CUSTOMER SEGMENT(S) **6. CUSTOMER CONSTRAINTS 5. AVAILABLE SOLUTIONS** CC CS Working parents or busy parents of 0-10 year old kids There are existing solutions Lack of affordable, reliable and hassle free technology, Lack of that offer location tracking availability of secure and easy for kids but they are not very UI. efficient, cost effective and reliable all at the same time. This trade off should be addressed. RC BE 7. BEHAVIOUR 9. PROBLEM ROOT CAUSE 2. JOBS-TO-BE-DONE / PROBLEMS J&P Customers panic, prevent their children from going Customers have to do this to protect their children from potential out on their own, try using easily available Instantaneous tracking and updation of child's location, geofencing and notifying parents of any abnormalities threats and to ensure the technologies safety while being far away from them.

# 3. TRIGGERS

TR

Coming across news about children being kidnapped and abducted, missing cases being reported.

### 4. EMOTIONS: BEFORE / AFTER



Before: Feel insecure, worried, scared and confused.

After Relieved, calm, confident, happy.

# **10. YOUR SOLUTION**



Building a reliable technology that can address all the customer needs while being reliable and secure ensuring efficient functioning.

#### 8. CHANNELS of BEHAVIOUR



#### 8.1 ONLINE

Tracking their kids location with their mobile phones' GPS, reading news about child safety and other child missing cases.

#### 8.2 **OFFLINE**

Customers accompany their children to ensure safety, send them together with other reliable people, seek for protection in public places.

# **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:

- Find the best tech solution to solve existing business problems.
- Describe the structure, characteristics, behaviour and other aspects of the software to project stakeholders.
- Define features, development phases and solution requirements.
- Provide specifications according to which the solution is defined, managed and delivered.

# **FEATURES:**

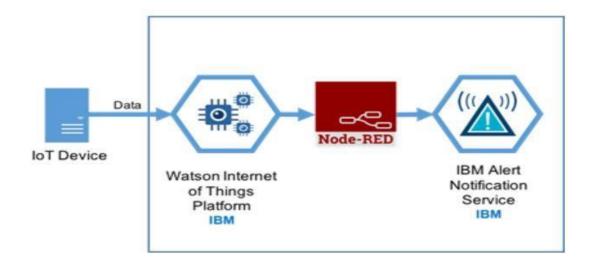
Development of a safety gadget for children to ensure their protection without direct monitoring of their parents. The various features involve:

- GPS
- Geo fence
- Notify alert signal

# **SOLUTION:**

Track current location of the child using GPS and continuous monitoring of the same is done. When the gadget detects the activity to be outside the given geo fence (as mentioned by the parent or guardian), alert messages or notifications are sent to the registered device, appropriately. Additional features such as recording of messages could be done if any kind of danger is sensed.

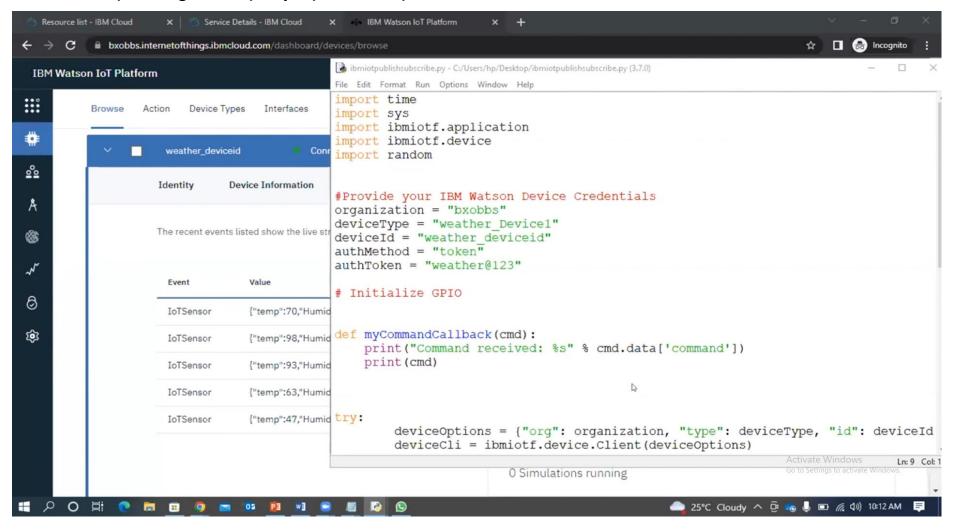
#### **SOLUTION ARCHITECTURE DIAGRAM:**

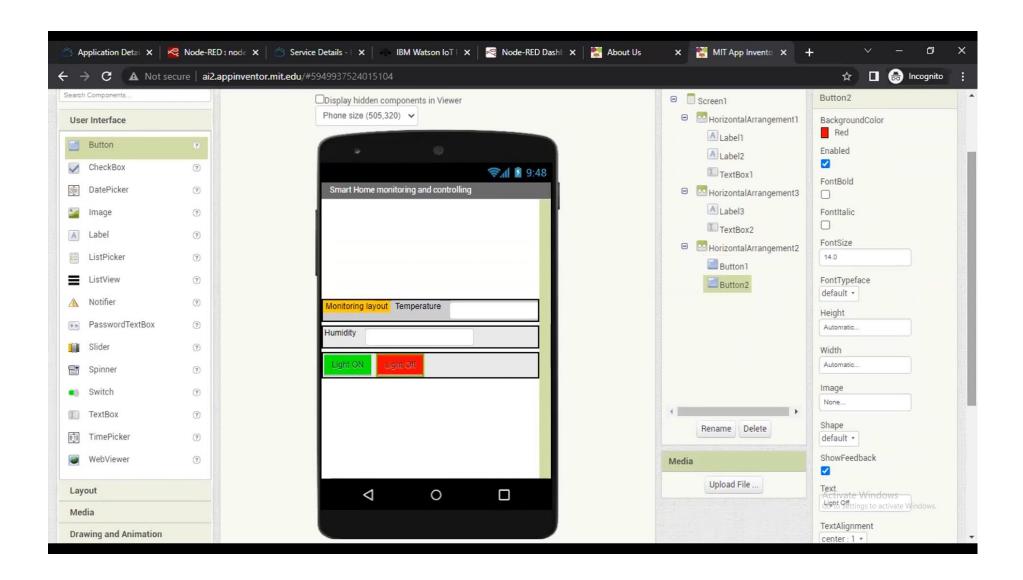


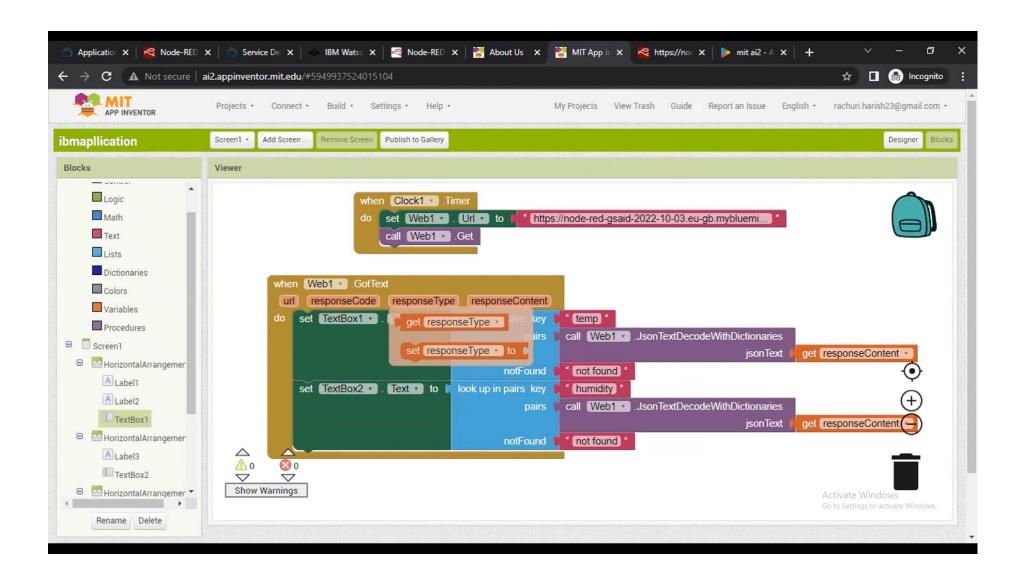
Architecture of the child safety gadget system

3.4 Attend the technology trainings as per the training calendar

# IoT-B4-4M6E (Morning Session)-Day-9 (29.09.2022)







# IoT-B4-4M6E (Evening Session)-Day-10 (01.10.2022)

