

Date	11-11-2022
Team ID	PNT2022TMID42919
Project Name	IoT Based Safety Gadget for Child Safety Monitoring & Notification

### **IBM CLOUD SERVICES**

#### IBM Watson Iot Platform

- > Watson Iot Platform features Analytics and Watson APIs Completely manage your Iot landscape and make better business decisions.
- > It assures delivery of messages Developer friendly libraries.
- > It integrates with java environment.
- > Allows development of interactive mobile messaging applications.
- > Easy to use ,web based command line interfaces.
- > Can be deployed on public cloud infrastructure in IBM cloud, Amazon and Azure cloud environments.

#### NODE - Red Service

- > Node Red is a flow-based programming tool,originally developed by IBM's Emerging Technology Services team and now a part of the Open JS Foundation.
- > The node part reflects both flow/node programming model as well as the underlying node.
- > It is low code programming for event for event driven applications.
- > Node-RED consists of a Node.js based runtime that you point a web browser at to access the flow editor.
- > Within the browser you create your application by dragging nodesfrom your palatte into a workspace and start to wire them together.
- > With a single click, the application is deployed back to the runtime where it is run.

#### Cloudant DB

## IBM CLOUD

- IBM Cloudant is a fully managed JSON document database that offers independent serverless scaling of provisioned throughput capacity and storage.
- Cloudant elastically scales throughput and storage and its API and

## IBM CLOUD

replication protocols are compatible with Apache couch DB for hybrid or multicloud architectures.

- IBM cloud provides an option of creating a fully managed cloudant instance on IBM cloud.

## Object storage

- Object storage is computer based data storage that manages data as objects.
- Object storage is used for purposes such as storing objects like videos and photos on facebook, song on spotify or files in online collaboration services such as dropbox.
- object storage provides programmatic interfaces to allow applications to manipulate data.
- It does not support the locking and sharing mechanisms needed to maintain a single, accurately updated version of life.
- Object storage explicitly separates file metadata from data to support additional functionalities.