

**Project Development Phase**  
**Project Development Delivery of Sprint 2**

Date	03 November 2022
Team ID	PNT2022TMID13499
Project Name	Project - IoT Based Safety Gadget For Child Safety Monitoring & Notification
Marks	8 Marks

**IoT Based Safety Gadget For Child Safety Monitoring & Notification**

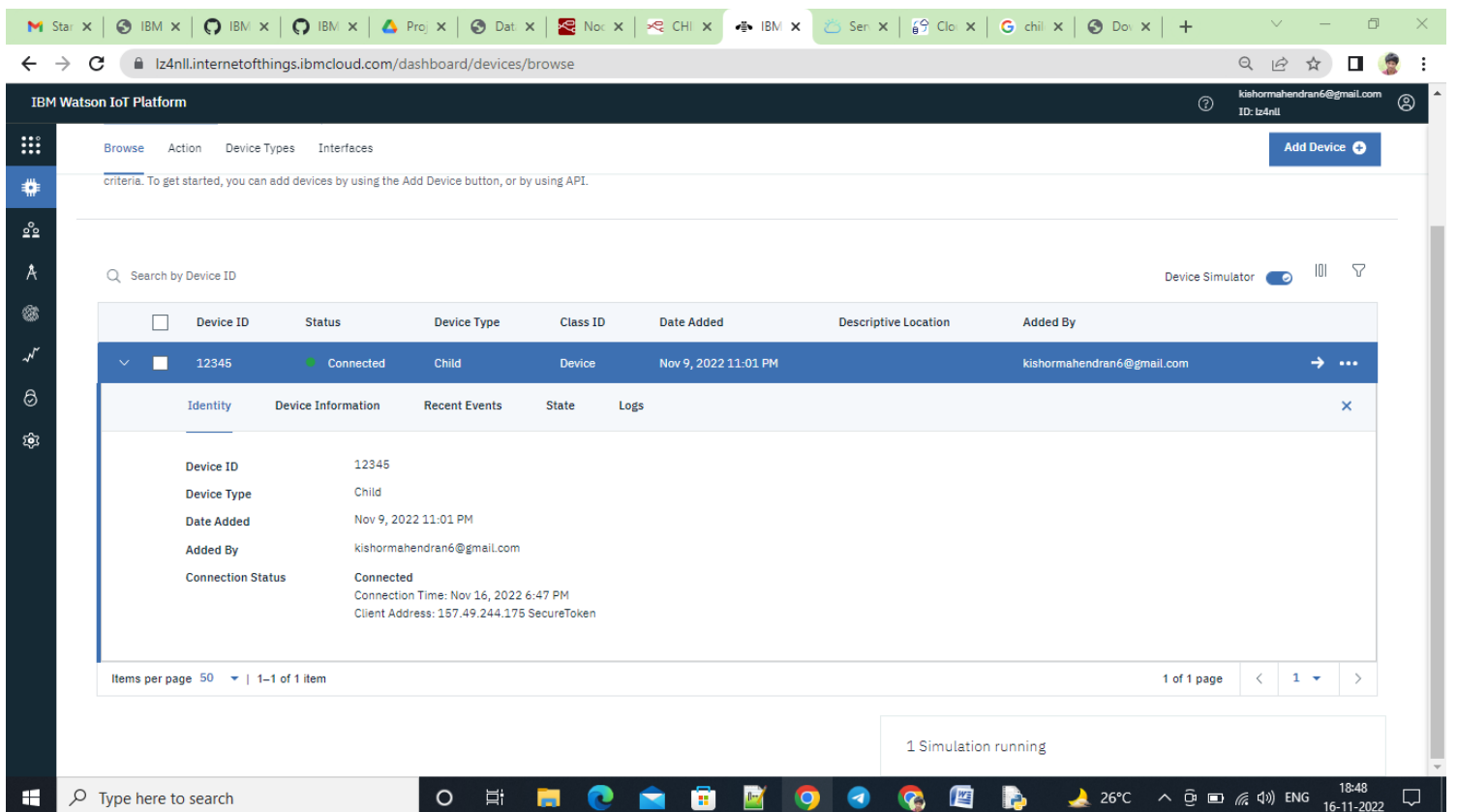
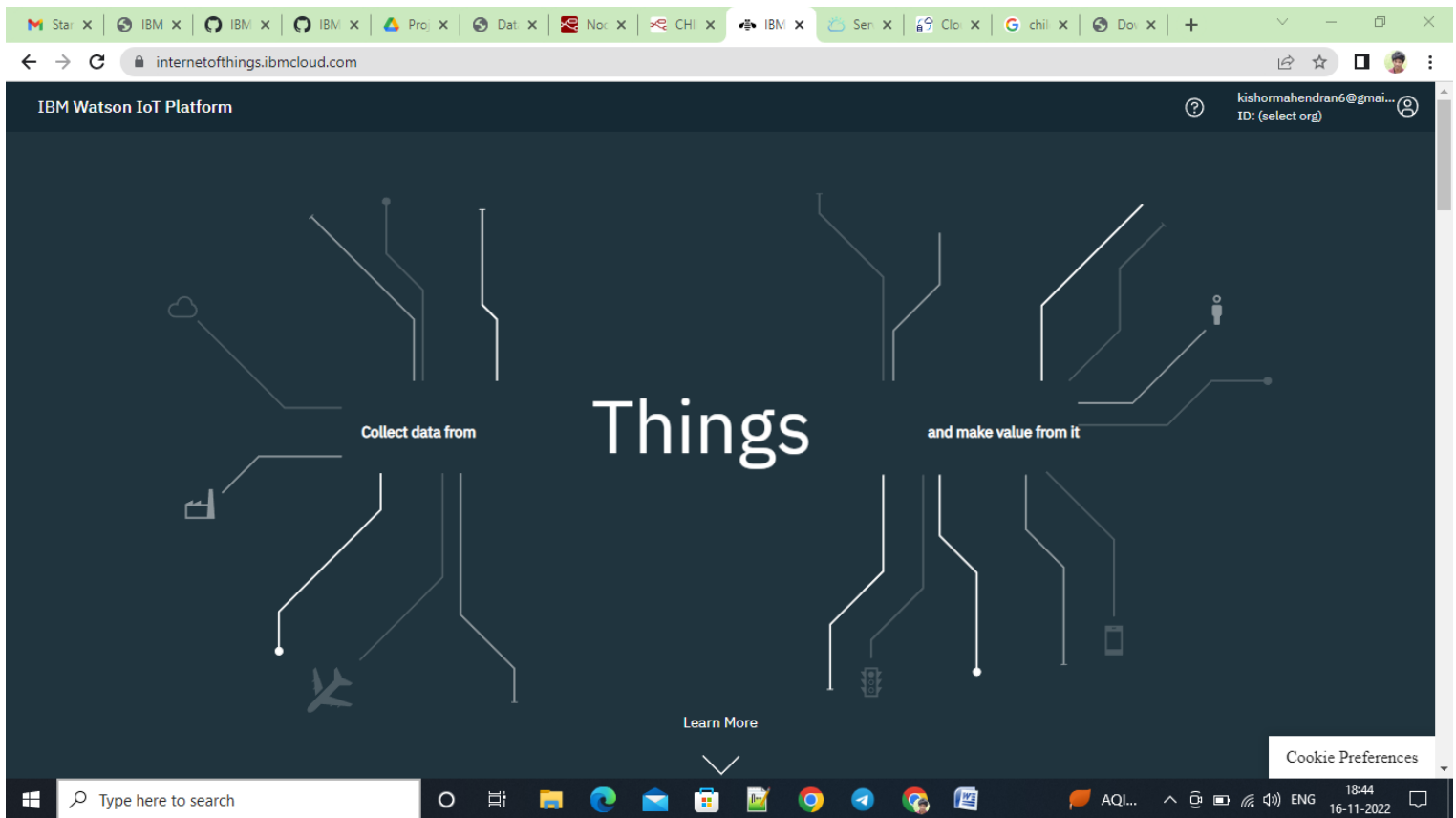
**Create A Database in Cloudant DB :**

The screenshot shows the Cloudant Databases dashboard in a web browser. The URL is [bbd54b5f-6512-4b15-be68-529e4eb0f1e7-bluemix.cloudant.com/dashboard.html#/\\_all\\_dbs](https://bbd54b5f-6512-4b15-be68-529e4eb0f1e7-bluemix.cloudant.com/dashboard.html#/_all_dbs). The dashboard displays a table of databases:

Name	Size	# of Docs	Partitioned	Actions
noderedplzb20221105	32.3 KB	4	No	[Edit] [Lock] [Delete]
sample	12.4 KB	130	No	[Edit] [Lock] [Delete]

At the bottom of the dashboard, it says "Showing 1-2 of 2 databases. Databases per page 20". The Windows taskbar at the bottom shows the time as 18:39 on 16-11-2022.

**Create IBM Watson IoT Platform And Device :**



IBM Watson IoT Platform

Search by Device ID

Device Simulator ☒

Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location	Added By
12345	Connected	Child	Device	Nov 9, 2022 11:01 PM		kishormahendran6@gmail.com

The recent events listed show the live stream of data that is coming and going from this device.

Event	Value	Format	Last Received
IotSensor	{"lat":12.7345,"lon":13.202,"name":"kishor"}	json	a few seconds ago
IotSensor	{"lat":12.7345,"lon":13.202,"name":"kishor"}	json	a few seconds ago
IotSensor	{"lat":12.7345,"lon":13.202,"name":"kishor"}	json	a few seconds ago
IotSensor	{"lat":12.7345,"lon":13.202,"name":"kishor"}	json	a few seconds ago
IotSensor	{"lat":12.7345,"lon":13.202,"name":"kishor"}	json	a few seconds ago

1 Simulation running

## Create Node-RED Service :

Node-RED

Child Tracker

filter nodes

common

- inject
- debug
- complete
- catch
- status
- link in
- link call
- link out
- comment

function

- function
- switch
- change
- range

flow:

```

graph TD
    IoT[IBM IoT] --> GP1[msg payload]
    GP1 --> GV[global variable]
    GV --> F7[function 7]
    F7 --> WM[wordmap]
    WM --> F[filter]
    F --> GE[geofence]
    GE --> SMP[set msg payload]
    SMP --> RBE[rbe]
    RBE --> S[switch]
    S -- True --> GP2[msg payload]
    S -- False --> GP3[msg payload]
    S -- False --> GP4[msg payload]
    GP2 --> SAMP[sample]
    GP3 --> HR[http request]
    GP4 --> HR
    HR --> SD[show dialog]
  
```

Node-RED v2.2.2

Node Help

- node-red
- node-red-contrib-azure-sql
- node-red-contrib-gpsd
- node-red-contrib-groovy-io
- node-red-contrib-ibm-db2

worldmap

Plots "things" on a web map. Needs an internet connection.

It is possible to instantiate multiple worldmap nodes but each one must be given a unique path. Worldmap-in nodes are matched to worldmap nodes by having exactly the same path.

Shortcut - `Ctrl+M` - `ctrl-shift-m` to jump to the default Map (`/worldmap`).

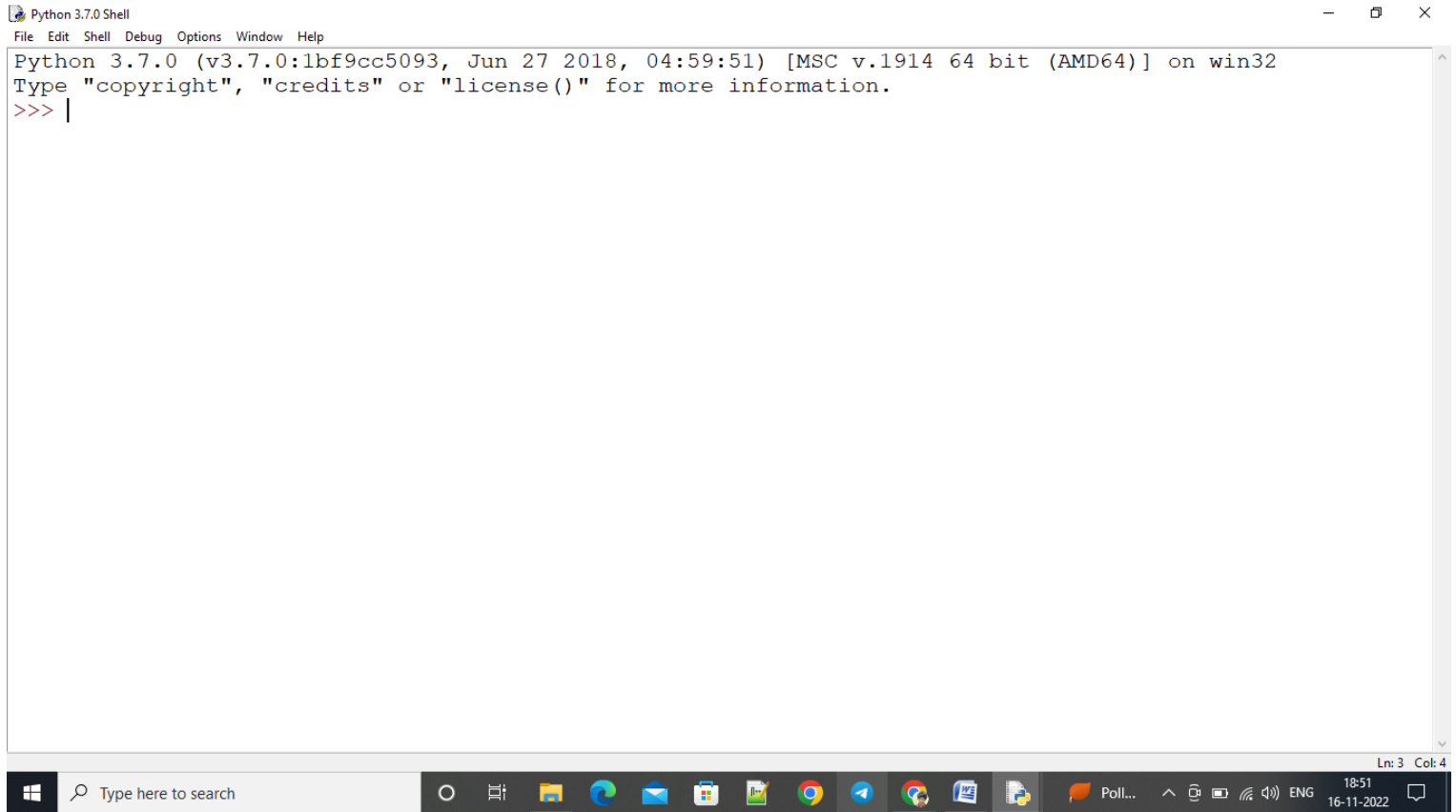
The minimum `msg.payload` must contain `name`, `lat` and `lon` properties, e.g.

```

{
  "name": "Joe",
  "lat": 51,
  "lon": -1.05
}
  
```

`name` must be a unique identifier.

## Python Software :



The image shows a Windows 10 desktop with a Python 3.7.0 Shell window open. The window has a title bar that says "Python 3.7.0 Shell" and a menu bar with "File", "Edit", "Shell", "Debug", "Options", "Window", and "Help". The main area of the window displays the following text:

```
Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:59:51) [MSC v.1914 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>> |
```

The Windows taskbar is visible at the bottom, showing the Start button, a search bar, and several pinned application icons including File Explorer, Microsoft Edge, Mail, Calendar, Photos, Google Chrome, Telegram, and a folder named "Poll...". The system tray on the right shows the date and time as "18:51 16-11-2022" and the language as "ENG".