

Sprint-3

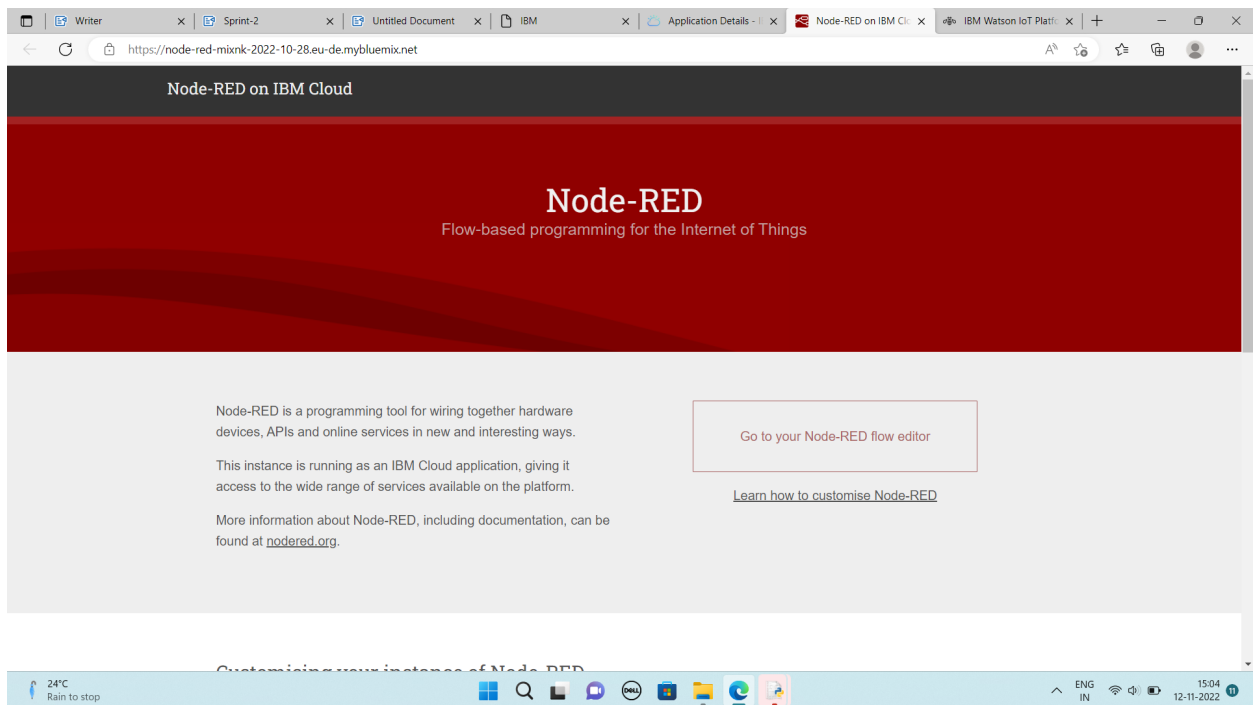
Team ID	PNT2022TMID47693
Project Name	Project - IoT Based Safety Gadget for Child Safety Monitoring and Notification
Team member	<ol style="list-style-type: none">1. M. Keerthana2. R. Sowmiya3. V. Nivetha4. V. Janani

Goal:

Creating a Web Application through which the user interacts with the device &
Create a Database in Cloudant DB

Step-1

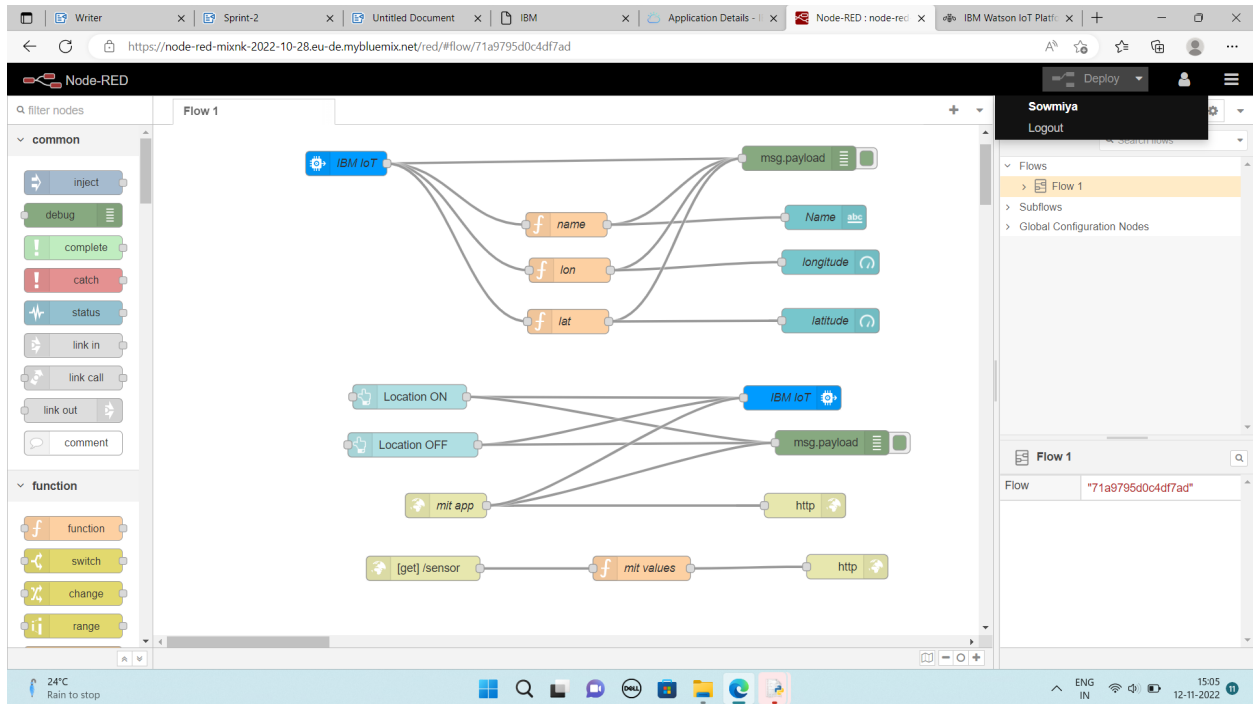
Create Node-RED service



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Step-2

Connect the node in workflow



Step-3

Install palette

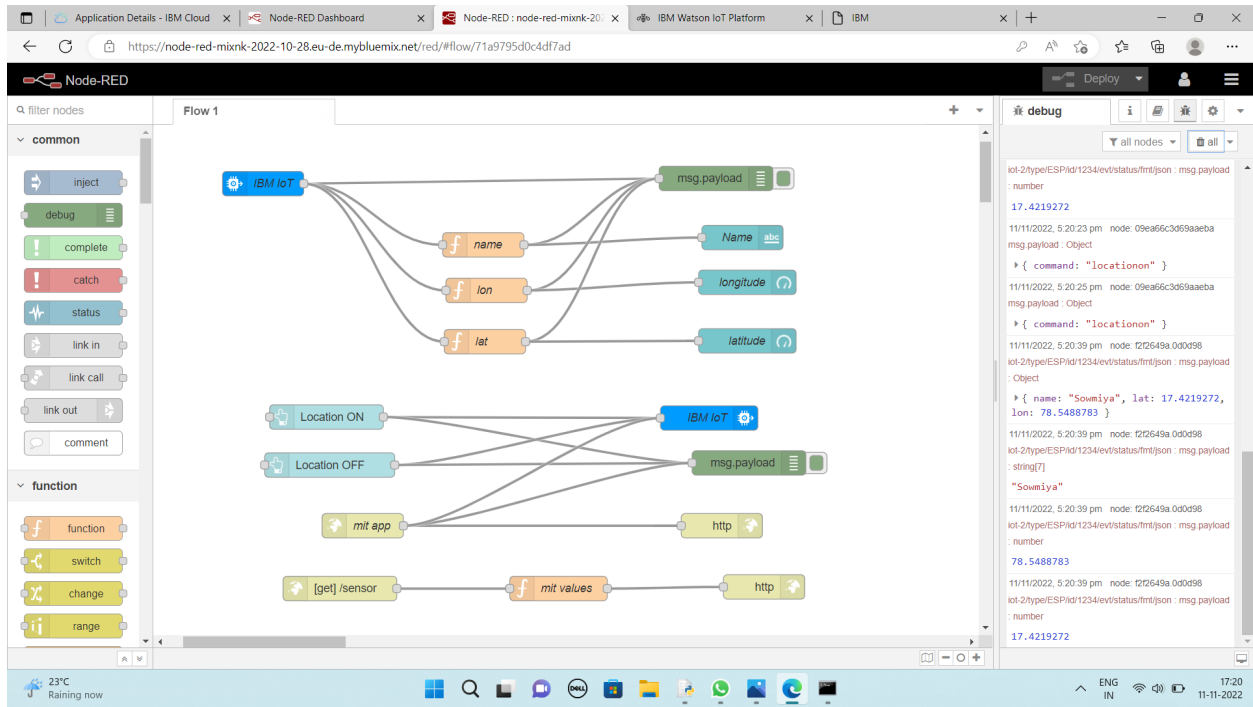
node-red-dashboard

node-red-contrib-scx-ibmiotapp

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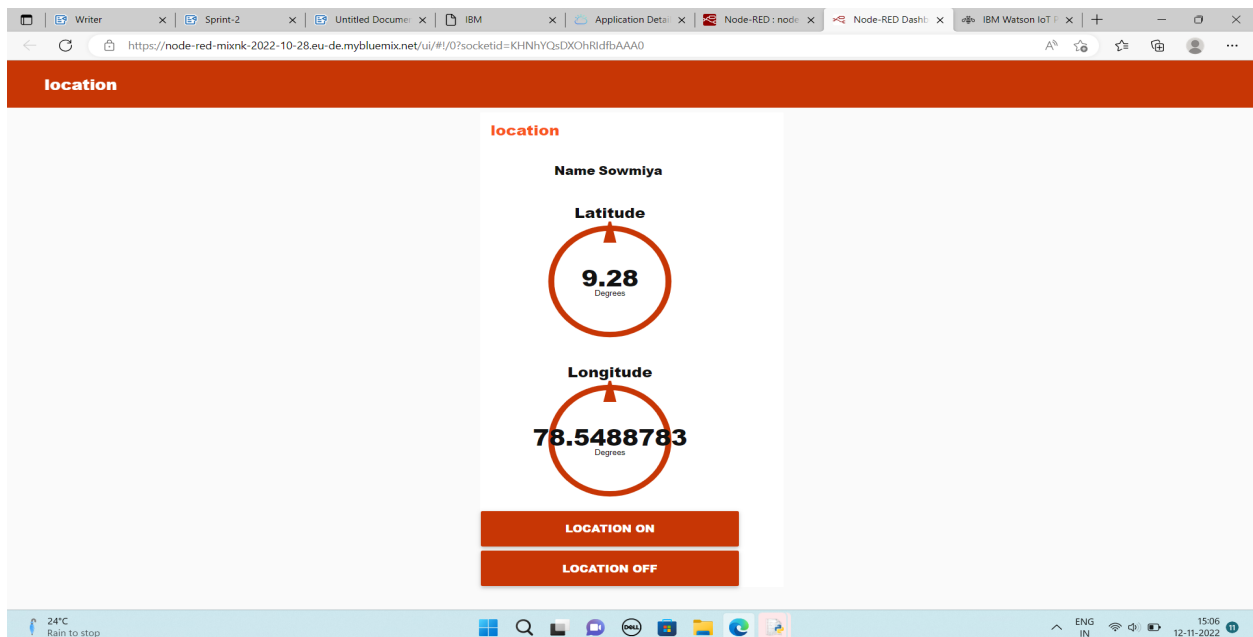
Step-4

Deploy the flow



Step-5

To build a Dashboard



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The screenshot shows a web browser displaying a location-based application. The page has a red header with the word "location". Below the header, the text "Name Sowmiya" is displayed. Underneath, there are two circular gauges. The first gauge is labeled "Latitude" and shows a value of "9.28 Degrees". The second gauge is labeled "Longitude" and shows a value of "78.5488783 Degrees". At the bottom of the page, there are two red buttons: "LOCATION ON" and "LOCATION OFF". To the right of the browser window, a terminal window titled "Python 3.7.4 Shell" is open, showing a series of log messages. The messages include "Data published to IBM IoT platform: ('name': 'Sowmiya', 'lat': 9.28, 'lon': 78.5488783)" repeated multiple times, followed by "Command received: locationon", "location is on", "Command received: locationoff", "location is off", "Command received: locationon", "location is on", and "Data published to IBM IoT platform: ('name': 'Sowmiya', 'lat': 9.28, 'lon': 78.5488783)".

Step-6

Launch the cloudant DB

The screenshot shows the IBM Cloud console interface. The top navigation bar includes the IBM Cloud logo, a search bar, and links to "Catalog", "Manage", and "Sowmiya R's Account". The main content area displays the details of a Cloudant database named "node-red-mixnk-2022--cloudant-1666962569322". The database is in an "Active" state. The "Overview" tab is selected, showing deployment details. The details include the CRN, Location (Frankfurt), External endpoint, External endpoint (preferred), Authentication methods (IBM Cloud IAM and Cloudant credentials), Activity Tracker event types (Management), and Disk encryption (Yes, Automatically generated disk encryption key). A "Launch Dashboard" button is visible in the top right corner of the details section.

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Step-7

Create a database to store the location data.

The screenshot shows the IBM Cloudant Dashboard interface. The browser address bar displays the URL: https://99f15a7a-c378-4d08-a190-bf1bc08b3c55-bluemix.cloudant.com/dashboard.html#/database/noderedmixnk2021028/_all_docs. The dashboard title is 'noderedmixnk2021028...'. On the left sidebar, there are navigation options: All Documents, Query, Permissions, Changes, Design Documents, library, Metadata, and Views. The main area displays a table view of documents. The table has columns: _id, credentials, flow, new, and settings. The documents listed are:

_id	credentials	flow	new	settings
552620a6ee7e9ee14098...			1234	
_design/library				
nodered/credential	{ "\$": "d1946b829c95a8f...			
nodered/flow		[{ "id": "71a9795d0c4df7...		
nodered/settings				{ "bluemixConfig": { "admi...

At the bottom, it shows 'Showing 5 of 7 columns.' and 'Showing document 1 - 5. Documents per page: 20'.

The screenshot shows the IBM Cloudant Dashboard interface for editing a document. The browser address bar displays the URL: <https://99f15a7a-c378-4d08-a190-bf1bc08b3c55-bluemix.cloudant.com/dashboard.html#/database/noderedmixnk2021028/552620a6ee7e9ee1409892b0f55939b3>. The dashboard title is 'noderedmixnk2021028 > 552620a6ee7e9ee1409892b0f55939b3'. The main area shows a document editor with a 'Save Changes' button and a 'Cancel' button. The document content is displayed in a code editor with the following JSON:

```
1 {
2   "_id": "552620a6ee7e9ee1409892b0f55939b3",
3   "_rev": "1-191d0077c617859138a6d12cb98ccc8b",
4   "new": "1234"
5 }
```

At the bottom, it shows 'Showing document 1 - 5. Documents per page: 20'.