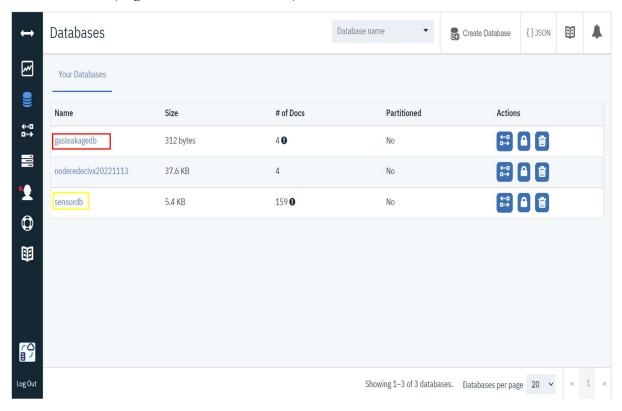
Project Development Phase Sprint – 4 (Storage, Web UI & App Deployment using Node RED)

Date	18 November 2022
Team ID	PNT2022TMID35867
Project Name	Project – Gas leakage monitoring and alerting
	system for industries

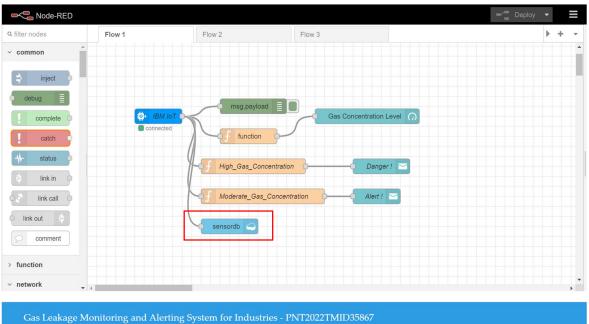
Workflow:

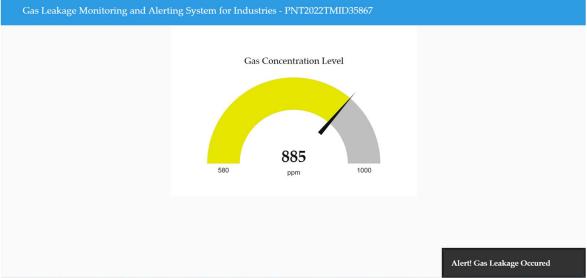
- 1. Create Unique database for storing Login credentials (gasleakagedb) and Sensor data (db).
- 2. Interface IBM Watson platform and Cloudant database using Node RED and to store sensor data in sensor storage database (db).
- 3. Create Web UI using Node RED to display Gas Concentration values on Gauge with three colours for three conditions (Green Normal, Yellow Moderate & Red Danger).
- 4. In addition, Notification will be displayed on Web UI for Moderate and Danger Level.
- 5. Interface Login (Username & Password), New User Registration (Username, Password & Mobile Number) and Cloudant database using Node RED and to store Login credential data in Login credentials database (gasleakagedb).
- 6. Interface IBM Watson platform sensor data and App using Node RED to display sensor data in App dashboard.
- 7. Develop App with three screen (Login, New User Registration & Sensor data Dashboard) using MIT App Inventor and interface Node Red and App for displaying Sensor data for registered user.

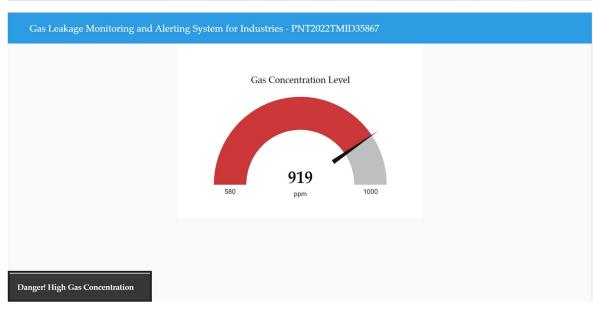
Create Database (Login database & sensor data):



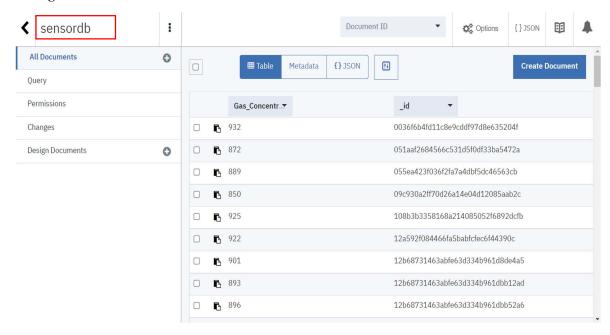
Create Web UI and interface IBM Watson Platform & Web UI using Node RED:



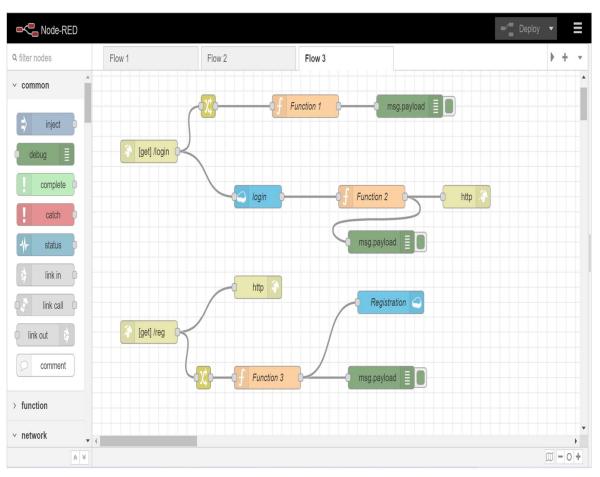




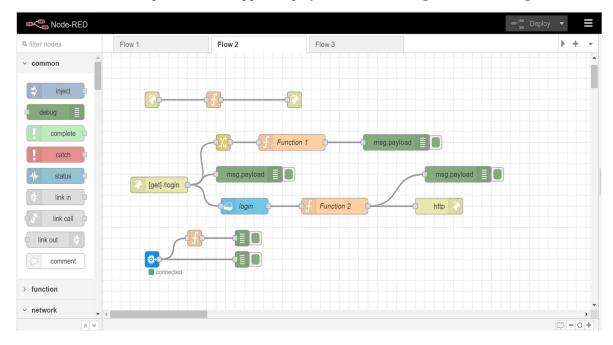
Storage of sensor data in Cloudant database:



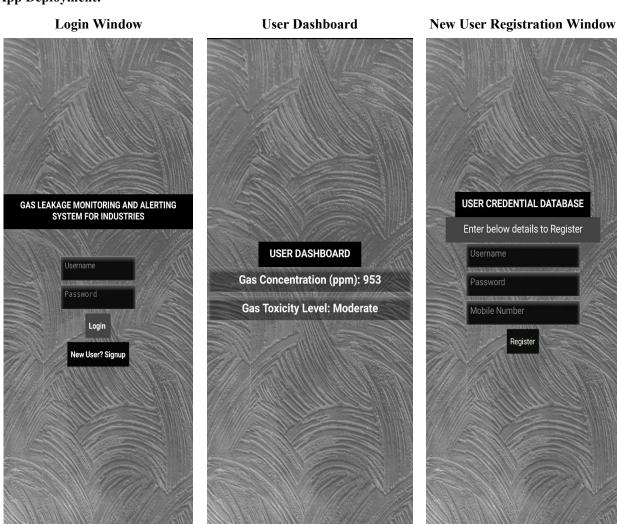
Interface Login and New User registration with Cloudant database & App deployment using Node-RED:



Interface IBM Watson platform and App to display sensor data for registered user using Node RED:

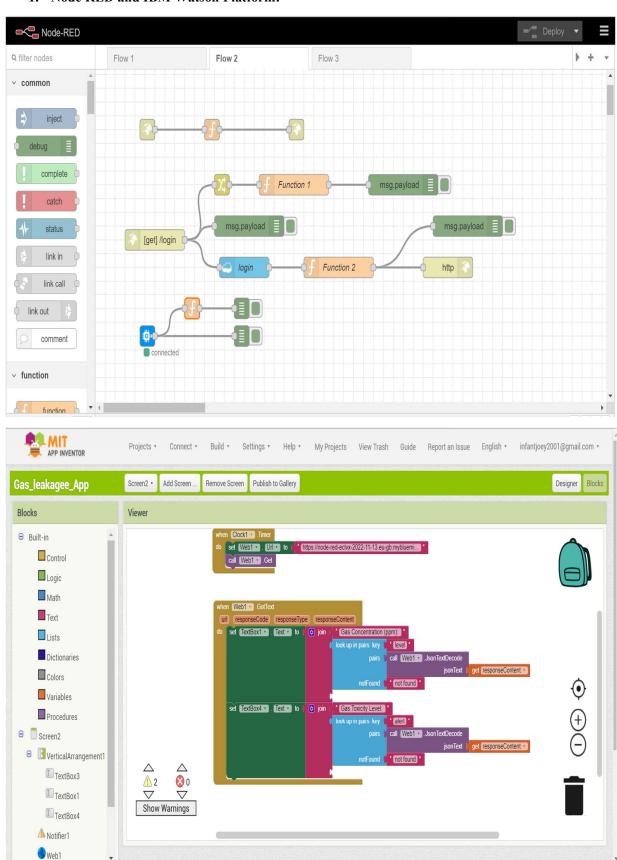


App Deployment:

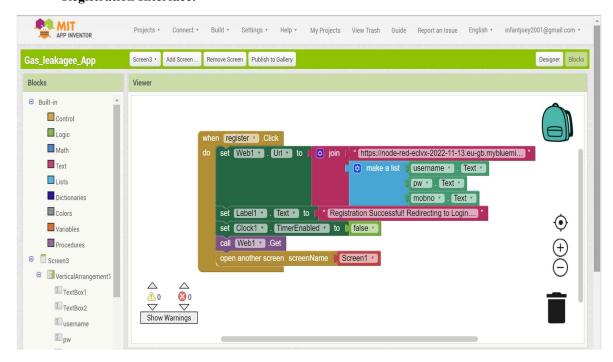


Interface Node RED, Cloudant, IBM Watson Platform & MIT App Inventor:

1. Node RED and IBM Watson Platform:



2. Node RED and MIT App Inventor (Login & New User Registration): Registration Interface:



Login Interface:

