Project Development Phase Sprint-1

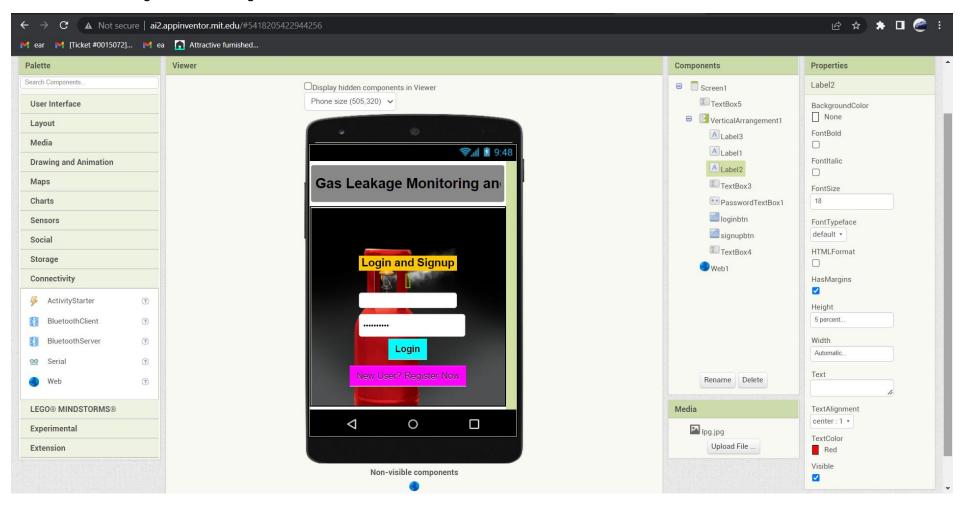
Date	2 November 2022
Team ID	PNT2022TMID35841
Project Name	Gas Leakage Monitoring and Alerting System

Sprint Target:

Sprint	Functional	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Requirement (Epic) Registration	USN-1	As a user, I can start by registering my credentials so that I get notifications in case of a gas leakage	10	High	SUDARSHAN A R, B ADITYA, C PRADUMNA
		USN-2	As a user, I will receive confirmation once I have registered for the application.	5	High	SUDARSHAN A R, B ADITYA, C PRADUMNA
	Login	USN-3	As a user, I can log into the application by entering my credentials	5	High	SUDARSHAN A R, B ADITYA, C PRADUMNA

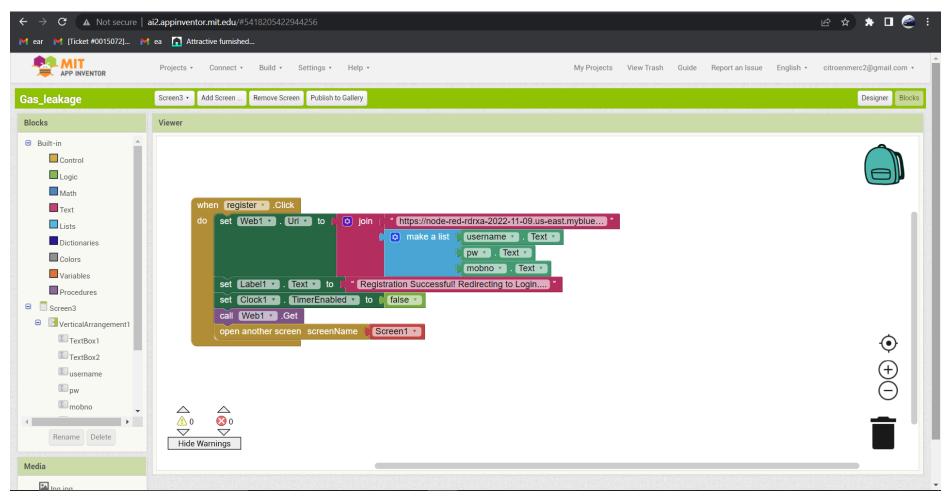
Introduction:

In this Sprint-1, we have created a Gas Leakage Monitoring and Leakage Detection application using MIT app inventor 2 and Node-RED API which allows user registration and login.

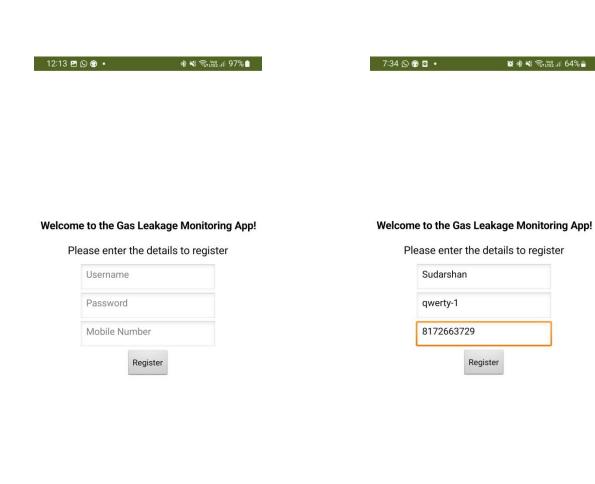


Registration/Signup

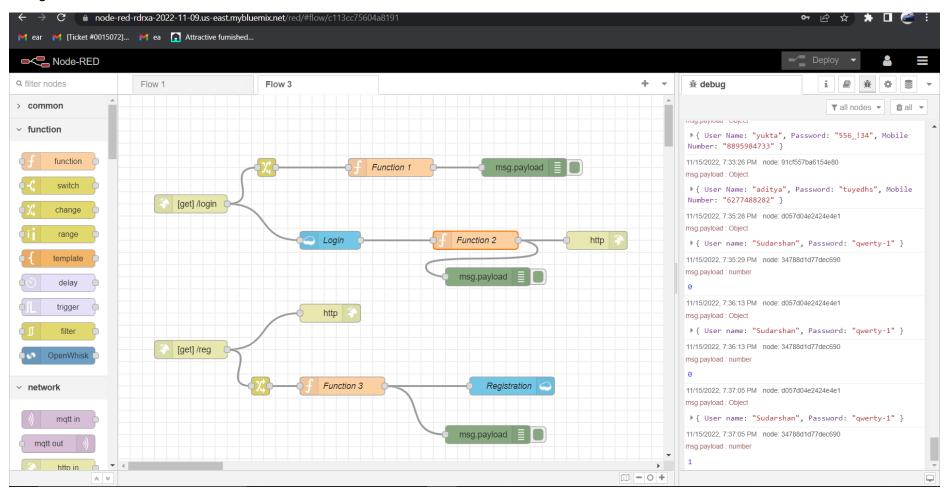
New users to the app can enter their username, password and mobile number to register.



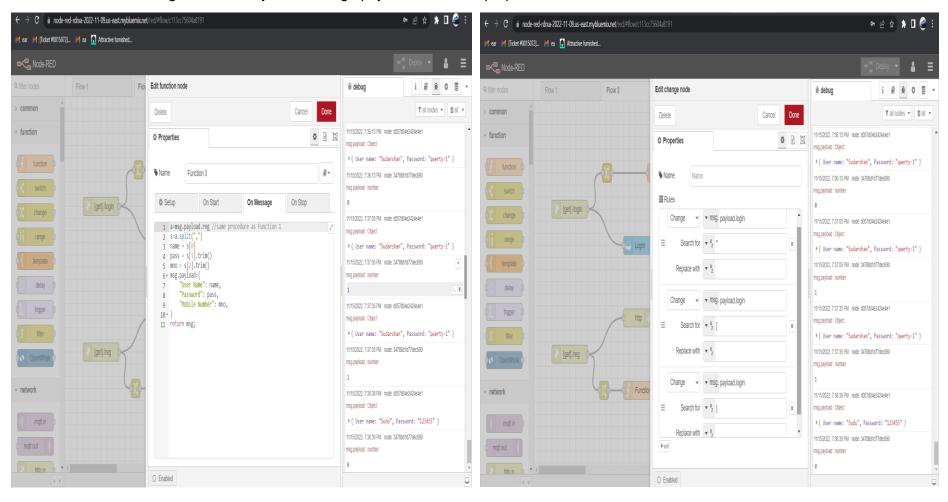




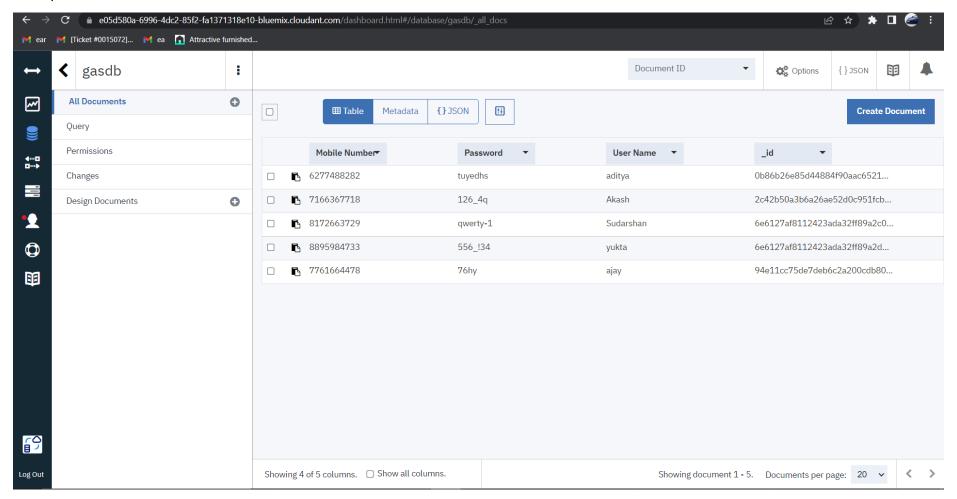
Using Node-RED the entered details are stored in the Cloudant Database.



Function 3 and the change node modify the message payload to store in proper format in the database.

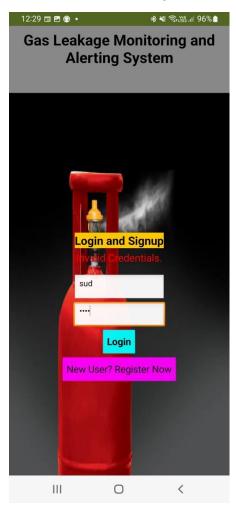


The updated database is shown below:

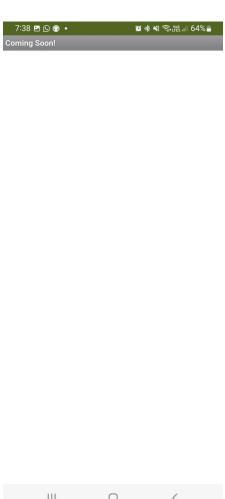


Login

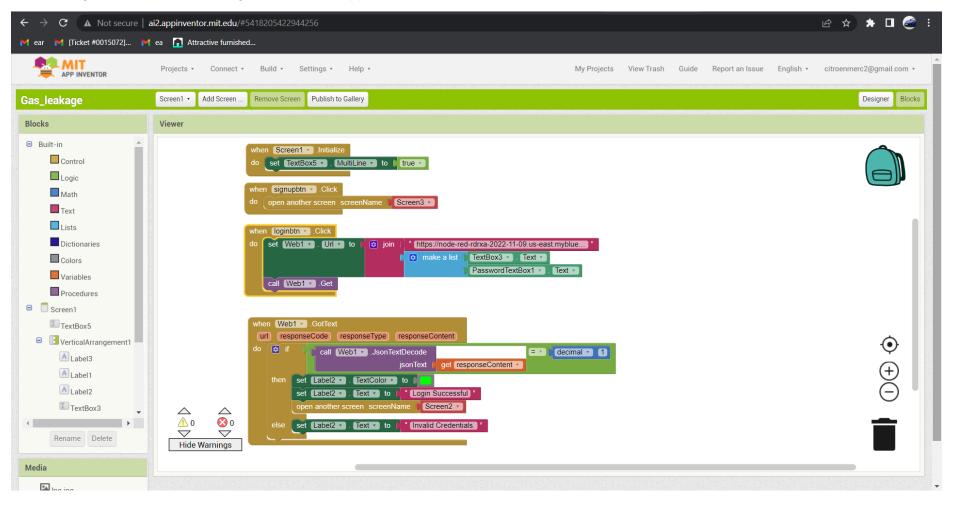
Once registered, the users can enter their newly created credentials to login. For now, they are redirected to a blank screen after successful login. We will be adding further details in this screen in future sprints. The first image shows invalid credentials entered. If correct credentials are entered, then the login is successful.



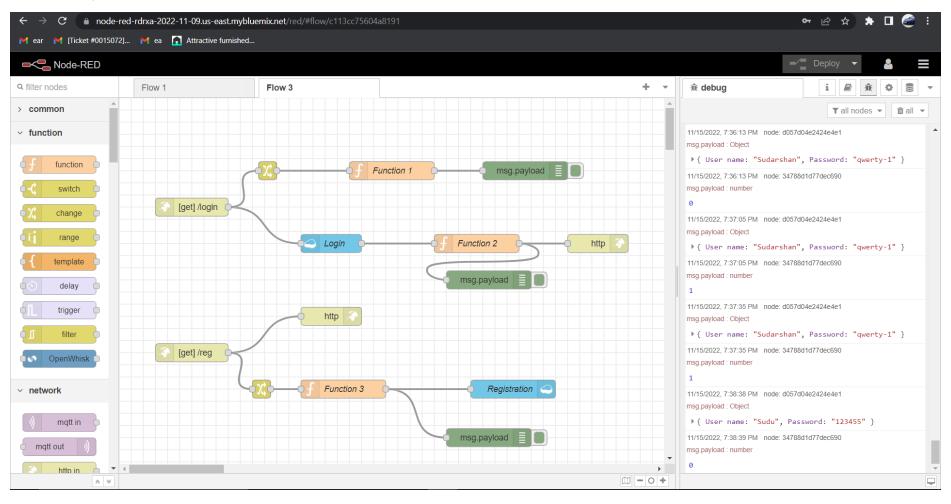




For user login we used the following blocks in MIT App Inventor 2



The data entered during login is then sent to Node-RED where it is compared with the database stored in the cloud. If the credentials match, 1 is returned by Node-RED else 0 is returned.



The functions used are shown below. Function 1 declares the received credentials as global so that it can be accessed by Function 2 performs the comparison.

