PROJECT DEVELOPMENT PHASE

DELIVERY OF SPRINT 3

Date	11 November 2022
Team ID	PNT2022TMID27573
Project Name	Project – Personal Assistance for senior citizens who are self-reliant

SPRINT III:Hardware Implementation

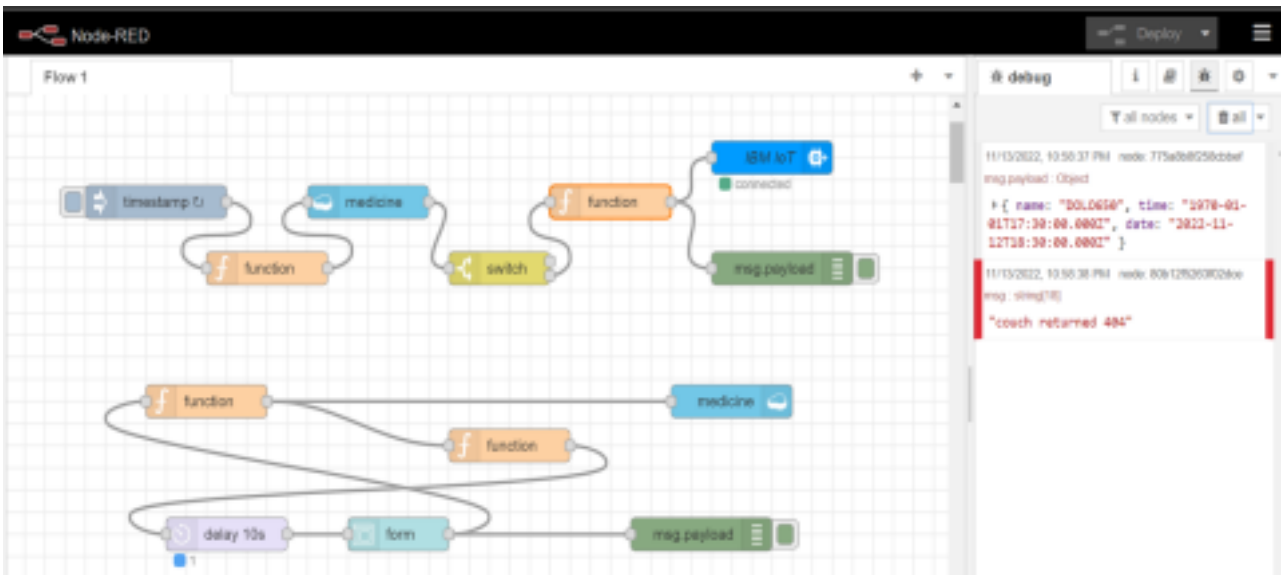
Objective:

Developing code to retrieve data from cloudant db to send that data to IoT device at the appropriate time.

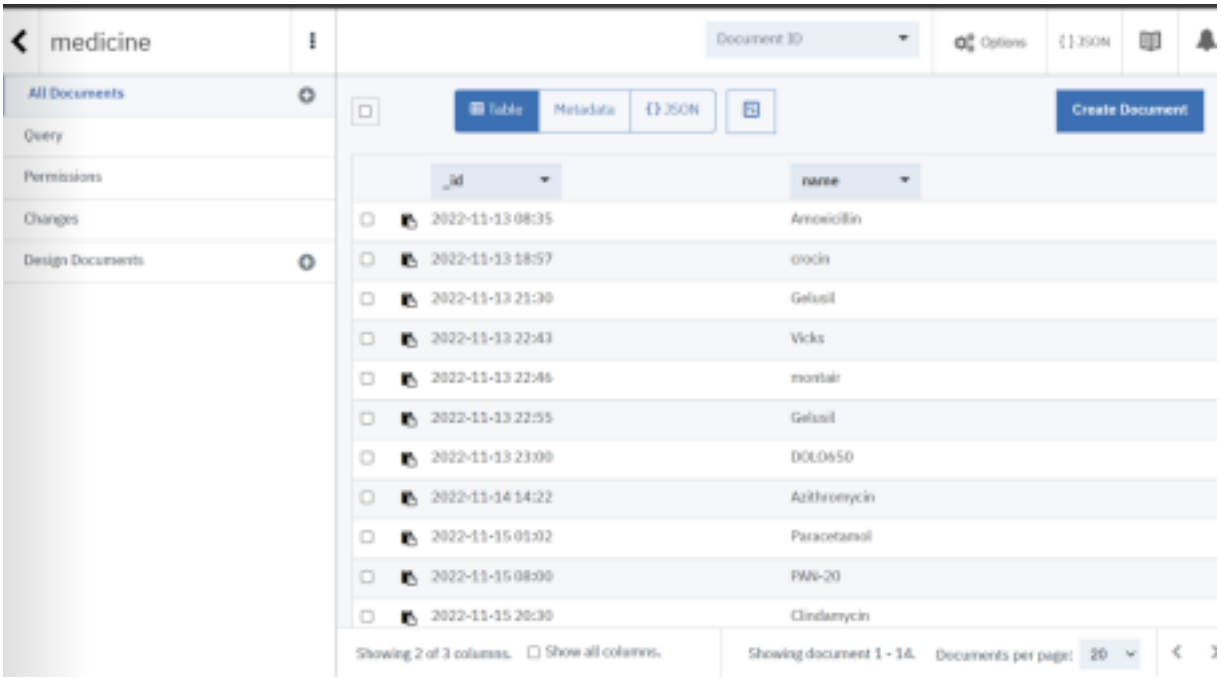
Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	**REGISTRATION:** Creation of IBM services like NODE RED, Cloudant DB and design of IOT system	USN-1	As a user, I should login into my IBM Cloud account	2	High	Vincy Veronica A, Preethi R
Sprint-2	**WEB UI:** Creating web UI using node red and connect it to IBM Cloudant DB	USN-2	As a user, I should be able to feed the medicine name and intake time in the web UI	2	High	Maria Anisha, Jane Ruffina Mary
Sprint-3	**SOFTWARE IMPLEMENTATION:** Developing Python code to retrieve data from cloudant db to send that data to IOT device at appropriate time	USN-3	As a user, I should be able to send the medicine name to the IOT device at the scheduled time	2	High	Preethi R, Maria Anisha
Sprint-4	**HARDWARE IMPLEMENTATION:** Converting data received from cloud as voice using IBM text to speech service	USN-4	As a user, I must be able to hear the medicine name which is to be taken at the appropriate time	2	High	Vincy Veronica, Jane Ruffina Mary

❖ **Scheduling medicine name and intake time:**

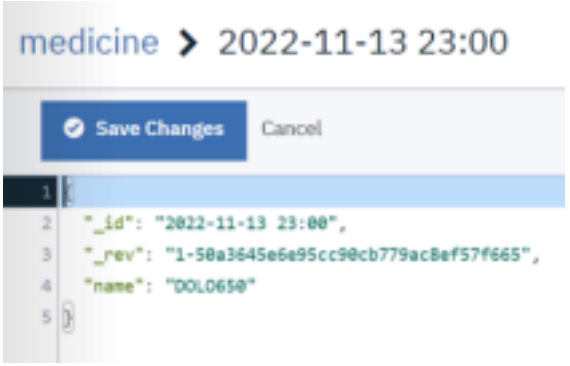
❖ **Medicine details displayed in Node-Red debug window:**



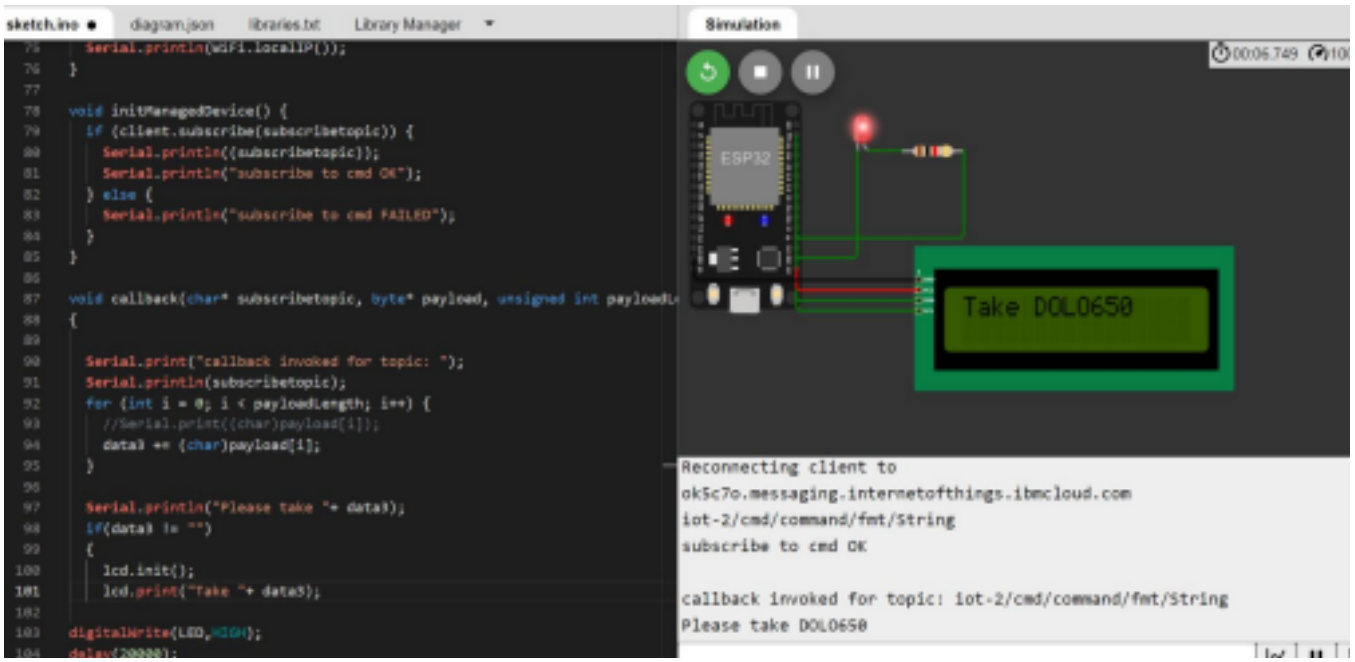
❖ **Medicine details pushed and displayed in IBM Cloudant db:**



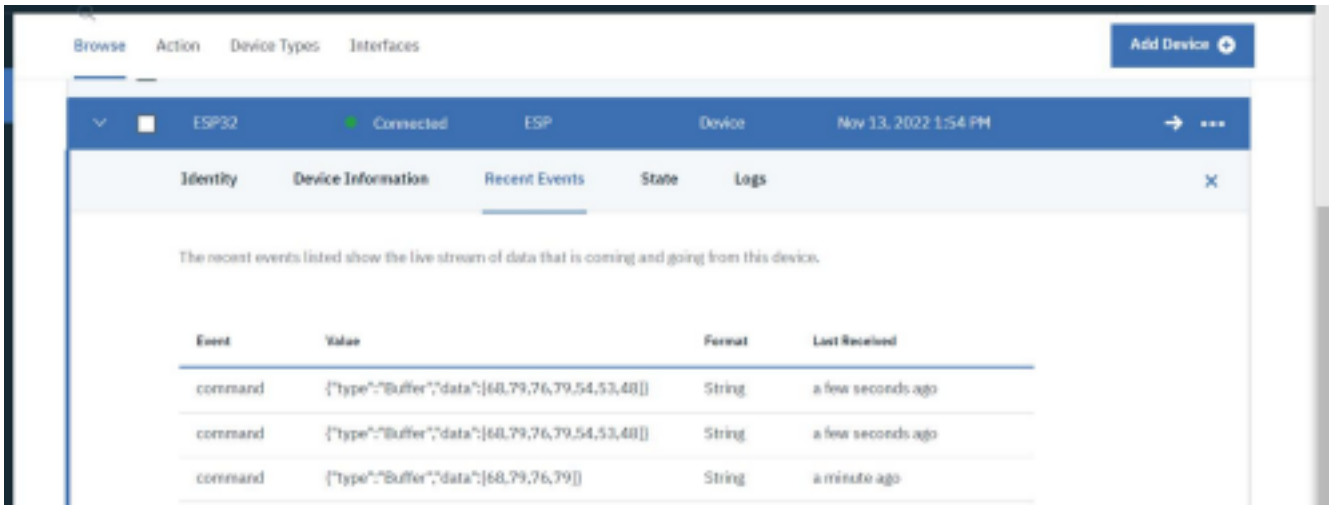
Scheduled DOLO650 medicine to be take at 23:00(11:00PM)



❖ **Medicine name sent to ESP32 on the scheduled time 23:00:**



❖ **Medicine name sent to ESP32 on the scheduled time 23:00:**



Medicine name(DOLO650) sent to IBM Watson IoT as ASCII values

Conclusion:

Hardware implementation phase is successfully completed.