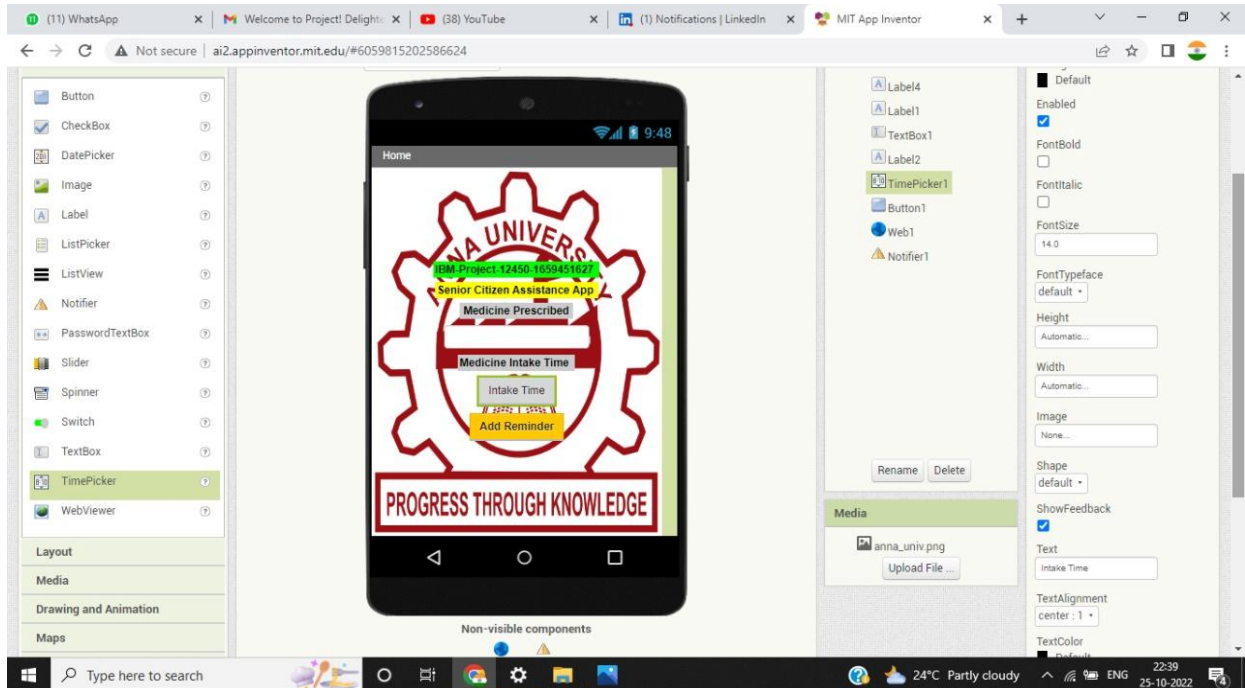


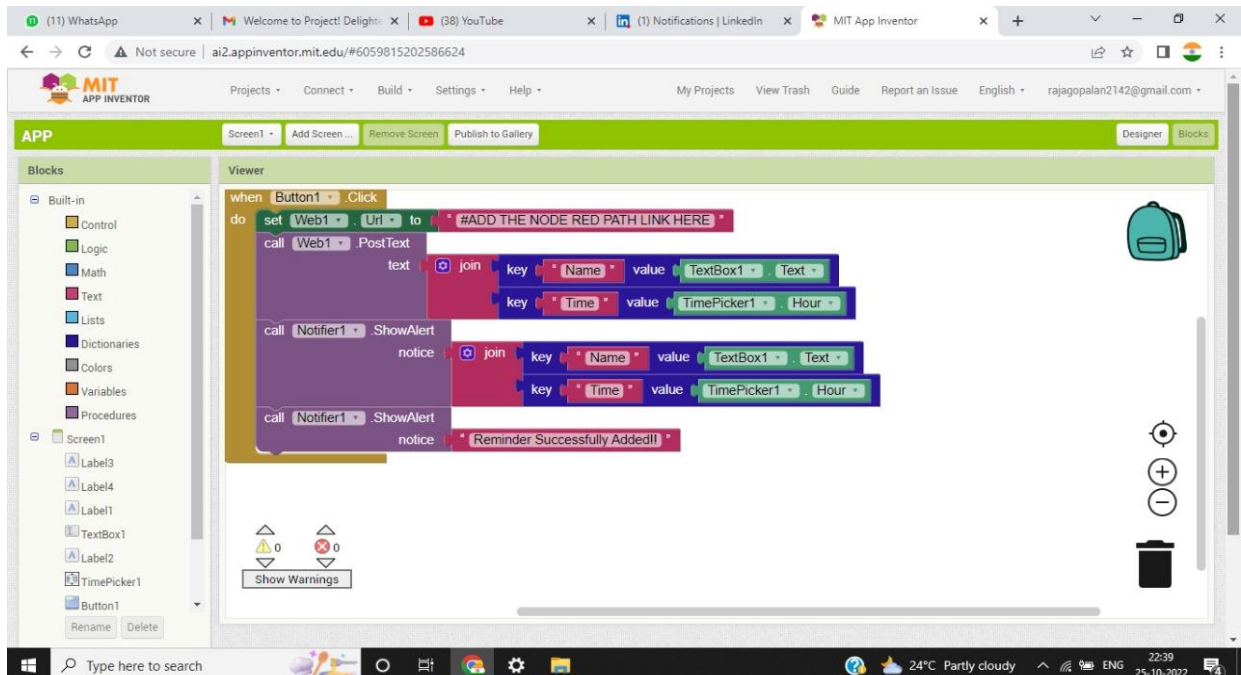
## SPRINT DELIVERY 3

### USER APP DEVELOPMENT WITH NODE RED DESIGN & IoT WATSON PLATFORM IMPLEMENTATION

#### DESIGNER VIEW OF APP:



#### BLOCK DESIGN OF APP:



#### RESULT:

[https://drive.google.com/file/d/18-iYPKx\\_E1qPitTr26hl4XPhEqMfzklp/view?usp=drivesdk](https://drive.google.com/file/d/18-iYPKx_E1qPitTr26hl4XPhEqMfzklp/view?usp=drivesdk)

## INTERFACE TO ADD MEDICINE DETAILS FOR USERS:

Home

User

Medication  
Medicine \*  
Crocine

Time \*  
01:25 PM

Date \*  
05-11-2022

SUBMIT CANCEL

## NODE-RED APPLICATION:

cloud.ibm.com/developer/appservice/apps/66dc5066-1aef-4dd1-a020-67a45890e98a

IBM Cloud

Search resources and products...

Node RED SPMOG 2022-10-24

Details

App URL: <https://node-red-spmog-2022-10-24.eu-gb.mybluemix.net>

Source: <https://eu-gb.git.cloud.ibm.com/971unfull/NodeREDSPMOG20...>

Resource group: Default

Deployment target: Node RED SPMOG 2022-10-24

Created: 24/10/2022

Services

Cloudant

Open dashboard Documentation API reference

Credentials

Connect existing services Create service

Deployment Automation

Name: NodeREDSPMOG2022-10-24

Location: London

Tool integrations

Delivery Pipelines

Name: pr-pipeline

Status: No stages detected

Name: ci-pipeline

Status: Success

Getting started quickly

Configuring your app

To connect services and DevOps toolchains to your app:

1. Use the **Services** card to connect a service to your app. Select an existing service instance, or create a new one. [Learn more.](#)
2. If you want to view the code before your app is deployed, click **Download code** to obtain the .zip file.
3. Click **Deploy your app** in the **Deployment Automation** card to select the deployment target and configure the Continuous Delivery service. The deployment begins automatically.
4. After the deployment begins, you can view the status of the deployment, modify your app, view your repo, or view the app's URL.
5. If you make any changes to your app, be sure to deploy it again.

## DELIVERY PIPELINE:

NAME: ci-pipeline STATUS: Success

APP URL: Generated

IBM

cloud.ibm.com/services/cloudantnosqldb/crm%3Av1%3Abluemix%3APublic%3Acloudantnosqldb%3Aeu-gb%3Aa%2F51092465b31c48fdb3ca4eade1e2011a%3Ad14f8894-5b9c-467b-8ead-20...

IBM Cloud

Search resources and products...

Catalog

Manage

Ranjith Roshan M's Acc...

Resource list /

node-red-spmog-2022--cloudant-1666622160768

Active

Add tags

Details

Actions...

Manage

Overview

Capacity

Docs

Launch Dashboard

Service credentials

Plan

Connections

Deployment details

CRN

crm.v1:bluemix:public:cloudantnosqldb:eu-gb:a/51092465b31c48fdb3ca4eade1e2011ad14f8894-5b9c-467b-8ead-2037b9fc3e23::

Location

London

External endpoint

https://e6b13ac7-a727-4477-a6d2-6f657b7dda84-bluemix.cloudant.com

External endpoint (preferred)

https://e6b13ac7-a727-4477-a6d2-6f657b7dda84-bluemix.cloudantnosqldb.appdo-main.cloud

Authentication methods

IBM Cloud IAM and Cloudant credentials

Migrate to IAM Only

Activity Tracker event types

Management

Save

Disk encryption

Yes. Automatically generated disk encryption key.

over the wire. Cloudant JSON documents are stored in triplicate across three separate availability zones for in-region HA/DR in regions that support AZ's. Any Cloudant instance deployed from the Frankfurt region/location will be in an EU-managed environment. See <https://ibm.com/cloud/cloudant>, or select View docs from the Actions menu for more details. Use the new Standard on Transaction Engine plan which offers cheaper storage and query costs, strongly consistent reads, scalable and consistent global secondary indexes, elimination of in region document conflicts, and addition in database encryption of data values.

Offering

Cloudant

Created by

97funfull@gmail.com

Location

London

Created

10/24/2022

Resource group

Default

Status

Active

Add tags

Type here to search

87°F Cloudy

15:48

04-11-2022

The above implemented node-red design sets up the data to flow through the various services used in the project. The user data is available from the medicine database which is compared with details set in the function node and as per match the needed result is passed onto IoT Watson node.

## IBM WATSON IoT DEVICE REGISTRATION:

The screenshot shows the 'Device Drilldown - 0001' page in the IBM Watson IoT Platform. The left sidebar contains a navigation menu with options: Device Credentials, Connection Information, Recent Events, State, Device Information, Metadata, Diagnostics, Connection Logs, and Device Actions. The main content area is titled 'Device Credentials' and includes a warning: 'Authentication tokens are non-recoverable. If you misplace this token, you will need to re-register the device to generate a new authentication token.' Below this, a table lists the device's credentials:

Property	Value
Organization ID	o6o3y5
Device Type	reminder_26
Device ID	0001
Authentication Method	use-token-auth
Authentication Token	TTS_service26

Below the table, there is a link to 'Find out how to add these credentials to your device'.

**DEVICE CREDENTIALS:** Generated

**AUTHENTICATION TOKEN:** Self-Generated

## OUTPUT GENERATION BY DEVICE IN IoT WATSON:

The screenshot shows the 'Recent Events' tab for device 0001. The table displays the following data:

Event	Value	Format	Last Received
event_1	{\"medicine\":\"crocin\"}	json	a few seconds ago
event_1	{\"medicine\":\"crocin\"}	json	a few seconds ago
event_1	{\"medicine\":\"crocin\"}	json	a few seconds ago
event_1	{\"medicine\":\"crocin\"}	json	a few seconds ago
event_1	{\"medicine\":\"crocin\"}	json	a few seconds ago

At the bottom of the page, a status bar indicates '1 Simulation running'.

### NOTE:

The recent events tab shows the value received by the IBM Watson IoT Platform based on the comparison operation done by the function node. For the conditions set in the function node based on the date & time set, the above medicine is reminded as output to the user.

## RESULTS OBTAINED IN IoT WATSON:

The screenshot displays the IBM Watson IoT Platform interface. The top navigation bar includes the 'medicinelist' board name and buttons for 'Add New Card', 'Paste Card', and 'Settings'. The main content area features a card titled 'Value' with a table of data. The table has two columns: 'Time' and 'Value'. The data shows five entries of 'crocin' medicine, each recorded at a different time on 11/5/2022. A status message at the bottom right indicates '1 Simulation running'.

Time	Value
11/5/2022, 11:08:12 PM	crocin
11/5/2022, 11:08:10 PM	crocin
11/5/2022, 11:08:07 PM	crocin
11/5/2022, 11:08:04 PM	crocin
11/5/2022, 11:08:01 PM	crocin

### NOTE:

The above output can be viewed from the BOARDS tab available in the platform by creating a new board and assigning a device type to the board.