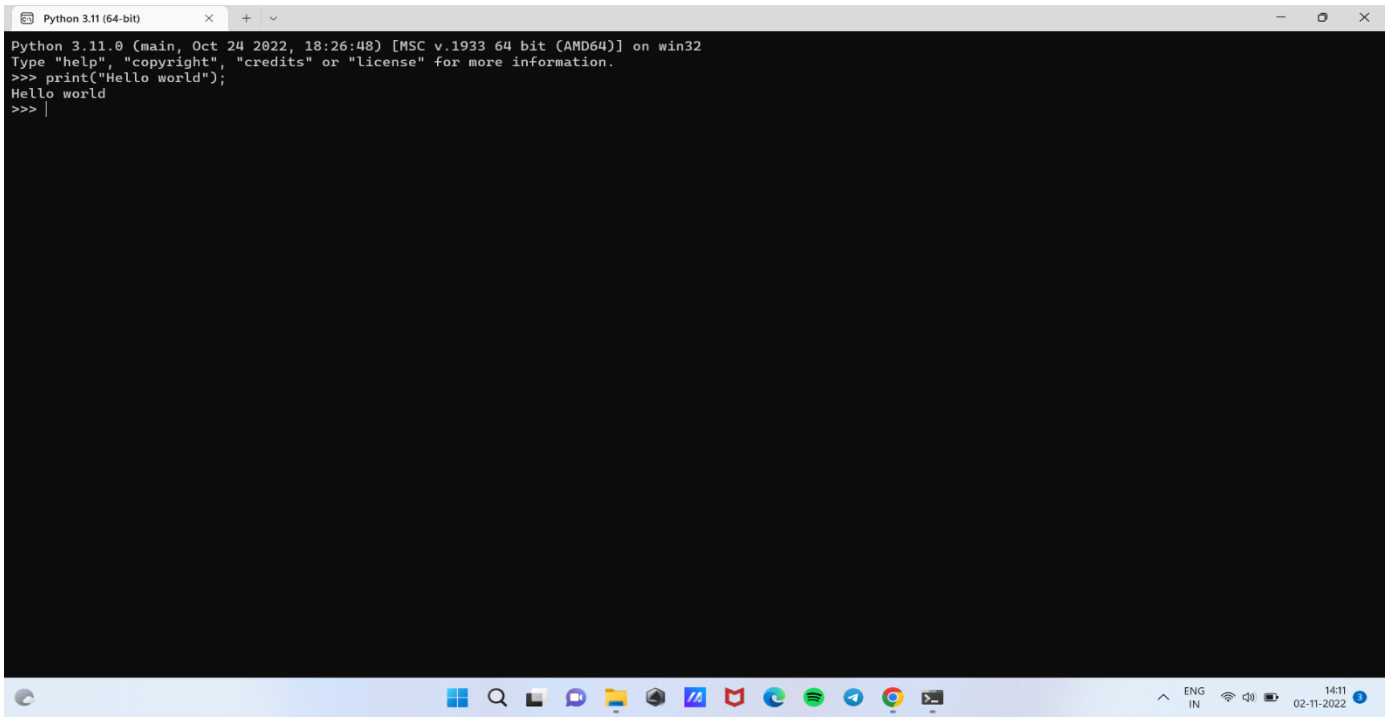


PROJECT PLANNING

PHASE

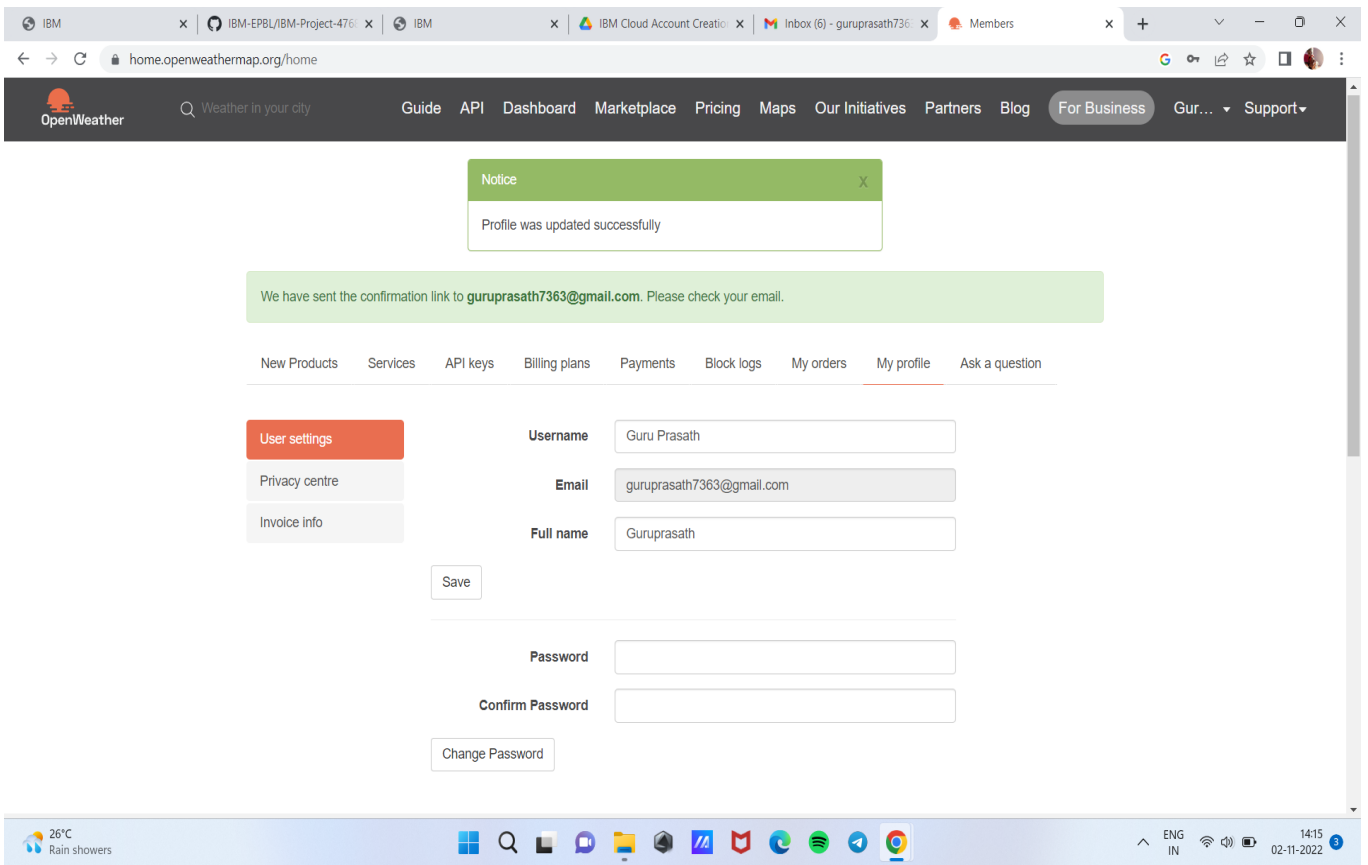
DATE	02-11-2022
TEAM ID	PNT2022TMID31035
PROJECT TITLE	Signs with Smart Connectivity for Better Road Safety

USN-1 Install Watson IoT Python SDK to connect to IBM Watson Platform Using Python:



```
Python 3.11.0 (main, Oct 24 2022, 18:26:48) [MSC v.1933 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>> print("Hello world");
Hello world
>>>
```

USN-2 Create an Account In Open weather Map Website:



The screenshot shows the OpenWeatherMap website with a confirmation message: "We have sent the confirmation link to guruprasath7363@gmail.com. Please check your email." Below this, the "My profile" section is active, displaying user settings. The "User settings" sidebar includes "User settings", "Privacy centre", and "Invoice info". The main form fields are:

- Username: Guruprasath
- Email: guruprasath7363@gmail.com
- Full name: Guruprasath
- Save button
- Password field
- Confirm Password field
- Change Password button

USN-3 IBM Cloud Services:

IBM Watson IoT platform:

The screenshot shows the IBM Watson IoT Platform dashboard. The top navigation bar includes 'Browse', 'Action', 'Device Types', and 'Interfaces'. A search bar is present with the text 'Search by Device ID'. A table lists devices, with one device (ID 12345) selected. The details for this device are shown below the table.

Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
12345	Disconnected	NodeMCU	Device	Nov 2, 2022 12:16 PM	

Device Details:

- Device ID: 12345
- Device Type: NodeMCU
- Date Added: Nov 2, 2022 12:16 PM
- Added By: guruprasath4301@gmail.com
- Connection Status: Disconnected

Node-Red Service:

The screenshot shows the Node-RED web interface. The left sidebar contains a list of nodes, including 'http response', 'http request', 'websocket in', 'websocket out', 'tcp in', 'tcp out', 'tcp request', 'udp in', 'udp out', 'input', 'output', and 'sequence'. The main workspace shows a flow with two nodes: 'timestamp' and 'complete: 0'. The right sidebar shows the 'help' panel for the 'ibmiot in' node, which is selected. The help text describes the node's functionality and the data it provides.

Node-RED Help: ibmiot in

Input node that can be used with Watson IoT Platform to receive events sent from devices, receive commands sent to devices, or receive status updates concerning devices or applications. It produces an object called msg and sets msg.payload to be a String containing the payload of the incoming message.

The value of "Device Id" is stored in msg.deviceId

The value of "Application Id" is stored in msg.applicationId

The value of "Device Type" is stored in msg.deviceType

The value of "Event Type" is stored in msg.eventType