






Project Development Phase

Sprint 1

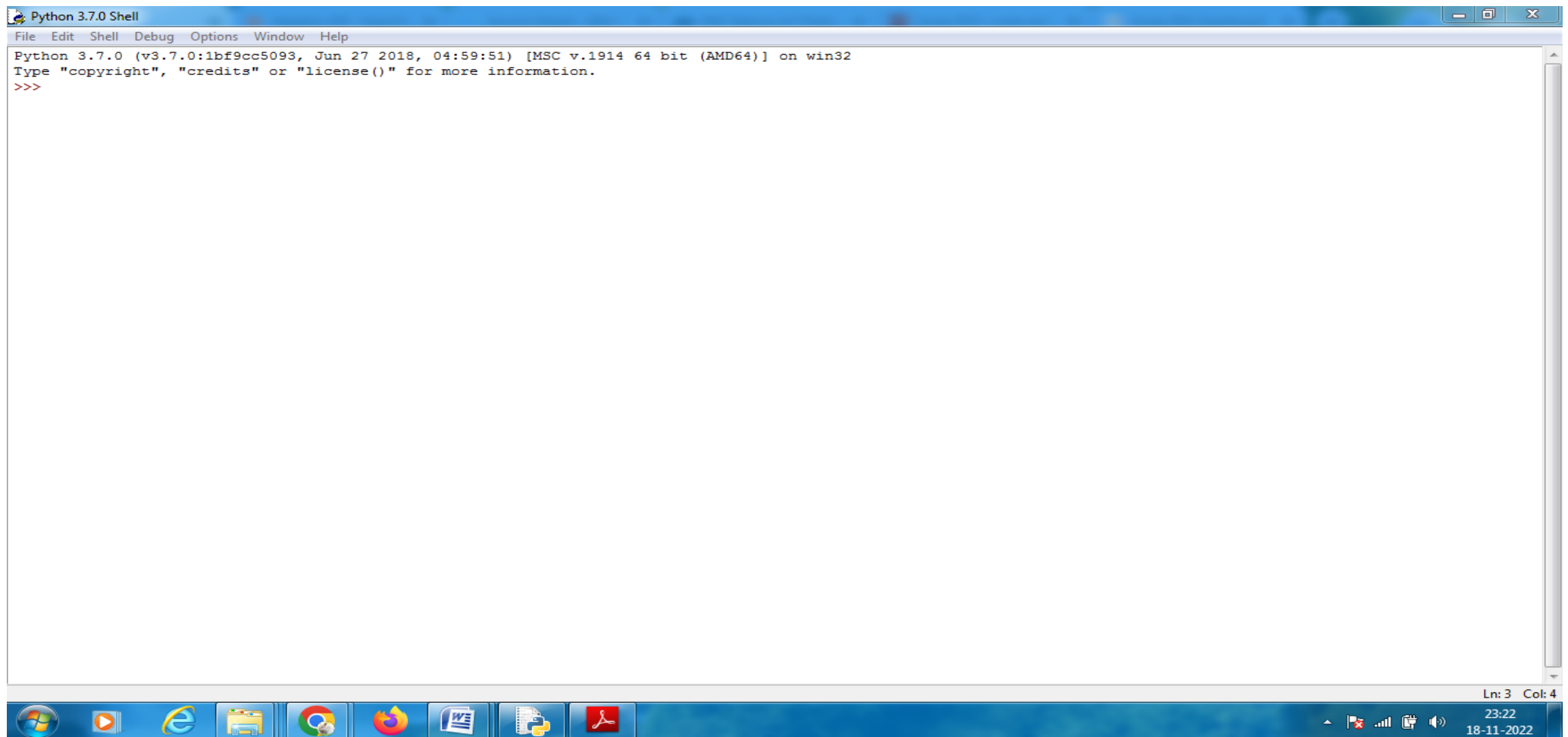
Date	24 October 2022
Team ID	PNT2022TMID41539
Project Name	Project-Signs with Smart Connectivity for Better Road Safety
Maximum marks	8 Marks

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Preparation	USN-1	<p>Install the Python IDE.</p> <p>Install the required python libraries:</p> <ul style="list-style-type: none">• Install Watson IoT Python SDK to connect to IBM Watson IoT Platform using python code: <p>give the following command in command prompt: pip install wiotp-sdk</p> <p>Download the required files from the link</p> <p>Create a fast SMS service for sending the messages and getting the API</p>	10	Medium	1.Mugila R 2.Ishwariya P 3.Kalpana T 4.Shreein Fathima S

Python IDE downloaded and Installed

 spyder-2.3.8.win-amd64-py3.4	17-09-2022 12:14	Application	3,528 KB
 Spyder_64bit_full (1)	17-09-2022 12:15	Application	2,30,256 KB
 Spyder_64bit_full	31-08-2022 21:27	Application	2,30,256 KB
 python-3.8.9-amd64	19-09-2022 07:23	Application	27,572 KB
 python-3.7.0-amd64	10-10-2022 19:16	Application	25,647 KB

Python Shell Preview



A screenshot of a Windows desktop with a taskbar at the bottom. The taskbar contains icons for Windows, VLC, Edge, File Explorer, Chrome, Firefox, Word, Excel, and a PDF reader. The system tray shows the date and time as 23:22 on 18-11-2022. A 'Python 3.7.0 Shell' window is open, displaying the Python 3.7.0 command prompt. The window has a menu bar with 'File', 'Edit', 'Shell', 'Debug', 'Options', 'Window', and 'Help'. The main area shows the text: 'Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:59:51) [MSC v.1914 64 bit (AMD64)] on win32', 'Type "copyright", "credits" or "license()" for more information.', and a red prompt '>>>'.

```
Python 3.7.0 Shell
File Edit Shell Debug Options Window Help
Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:59:51) [MSC v.1914 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
```

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Preparation	USN-2	<p>Create An Account In OpenweatherMap Website</p> <p>Using Openweathermap we can get current weather details of a location and integrate this with our project</p> <p>Create An Account In MIT App inventor Website</p> <p>Create an account in MIT app inventor website and download MIT AI2 companion app in mobile.</p>	5	Low	1.Mugila R 2.Ishwariya P 3.Kalpana T 4.Shreein Fathima S

OpenweatherMap account created

The screenshot shows a web browser window with multiple tabs open, including 'Weather API - OpenWe', 'Service Details - IBM Cl', 'IBM Watson IoT Platform', 'Node-RED : node-red-x', and 'Node-RED Dashboard'. The active tab is 'openweathermap.org/api'. The website header features the OpenWeather logo and navigation links: 'Weather in your city', 'Guide', 'API', 'Dashboard', 'Marketplace', 'Pricing', 'Maps', 'Our Initiatives', 'Partners', 'Blog', 'For Business', 'Sign in', and 'Support'. The main heading is 'Weather API', with a breadcrumb trail 'Home / Weather API'. The content area promotes the 'One Call API 3.0' with a 'NEW' badge. It includes a 'Subscribe' button and a link to the 'API doc'. A list of features is provided: 'Minute forecast for 1 hour', 'Hourly forecast for 48 hours', 'Daily forecast for 8 days', 'Historical data for 40+ years back by timestamp', and 'National weather alerts'. The pricing is 'Pay as you call' at '1,000 API calls per day for free' and '0.0012 GBP per API call over the daily limit'. A 'Subscribe to One Call by Call' button is present. A note states 'This is a separate subscription plan, which include only One Call API.' A footer section contains a cookie notice and 'Allow all' and 'Manage cookies' buttons. The Windows taskbar at the bottom shows icons for various applications and the system clock indicating 23:24 on 18-11-2022.

OpenWeatherMap account created

Weather API Home / Weather API

Please, [sign up](#) to use our fast and easy-to-work weather APIs. As a start to use OpenWeather products, we recommend our [One Call API 3.0](#). For more functionality, please consider our products, which are included in [professional collections](#).

One Call API 3.0 **NEW**

[API doc](#) [Subscribe](#)

Make one API call and recieve all essential weather data in one response:

- Minute forecast for 1 hour
- Hourly forecast for 48 hours
- Daily forecast for 8 days
- Historical data for 40+ years back by timestamp
- National weather alerts

Read more about this API and subscription plan in the [FAQ](#).

Pay as you call

1,000 API calls per day for free
0.0012 GBP per API call over the daily limit

[Subscribe to One Call by Call](#)

This is a separate subscription plan, which include only One Call API.

We use cookies which are essential for the site to work. We also use non-essential cookies to help us improve our services. Any data collected is anonymised. You can allow all cookies or manage them individually.

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Create An Account In MIT App inventor Website



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Anyone Can Create iPhone and Android Apps with Global Impact

Get Started



USERS TODAY:

119.1K

USERS THIS MONTH:

1.2M

ALL-TIME USERS:

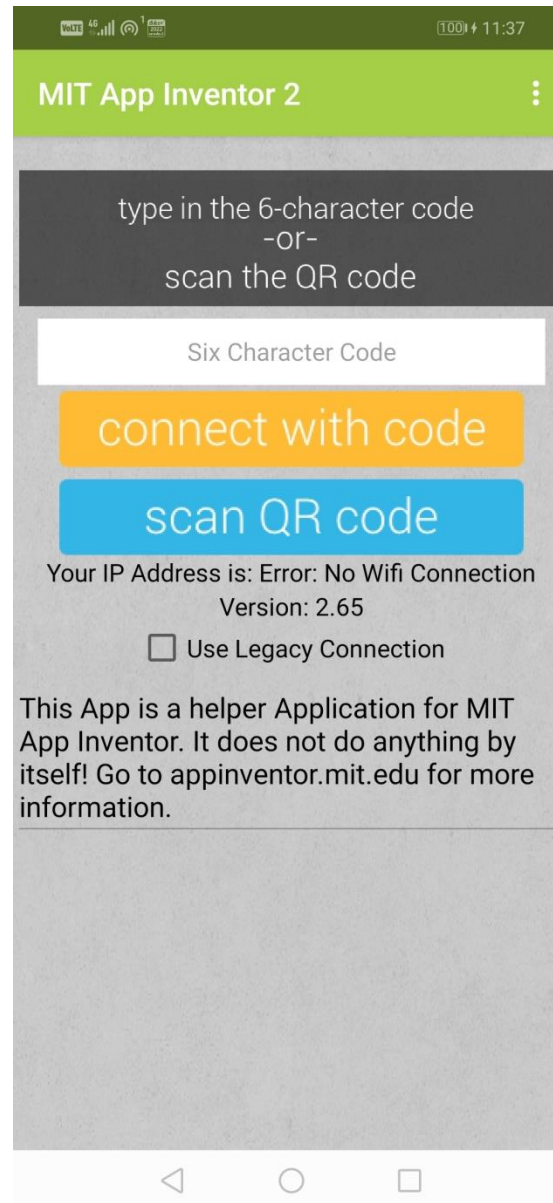
14.9M

APPS BUILT:

67.8M



Downloaded MIT AI2 companion app in mobile



Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Preparation	USN-3	IBM Cloud Services Need to have basic knowledge of the following cloud services: <ul style="list-style-type: none"> IBM Watson IoT Platform Node-RED Service 	5	Medium	1.Mugila R 2.Ishwariya P 3.Kalpana T 4.Shreein Fathima S

IBM Watson IoT Platform created

IBM Watson IoT Platform

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ID: 74k16v

Browse Action Device Types Interfaces

Browse Devices

All Devices Diagnose

This table shows a summary of all devices that have been added. It can be filtered, organized, and searched on using different criteria. To get started, you can add devices by using the Add Device button, or by using API.

Search by Device ID

Device Simulator ☒ 101

<input type="checkbox"/>	Device ID	Status	Device Type	Class ID	Date Added
> <input type="checkbox"/>	20082001	Disconnected	Board	Device	Oct 3, 2022 7:40 PM

Items per page 50 | 1-1 of 1 item

1 of 1 page

0 Simulations running

23:15
18-11-2022

Node-Red service created

The screenshot displays the Node-RED web interface in a browser. The address bar shows the URL: `node-red-xqkno-2022-10-03.mybluemix.net/red/#flow/895a58d22de00831`. The interface includes a left sidebar with node categories (common, function), a central workspace for 'Flow 1', and a right sidebar with dashboard controls.

Flow 1 Configuration:

- Input:** A `Batch 11` node is connected to an `IBM IoT` node (status: connected).
- Processing:** The `IBM IoT` node has six outgoing connections to function nodes:
 - `msg.payload`
 - `temperature`
 - `MESSAGE`
 - `sign`
 - `Speed`
 - `Visibility`
- Output:** Each function node is connected to a corresponding output node:
 - `temperature` connects to a `temperature` node with a refresh icon.
 - `MESSAGE` connects to a `Message` node.
 - `sign` connects to a `Sign` node.
 - `Speed` connects to a `Speed` node.
 - `Visibility` connects to a `Visibility` node.

The right sidebar shows the **dashboard** tab selected, with options for Layout, Site, and Theme. The **Tabs & Links** section lists a 'Home' tab and three links: 'Signs with smart connectiv', 'Hall AC', and 'Smart switch board'.