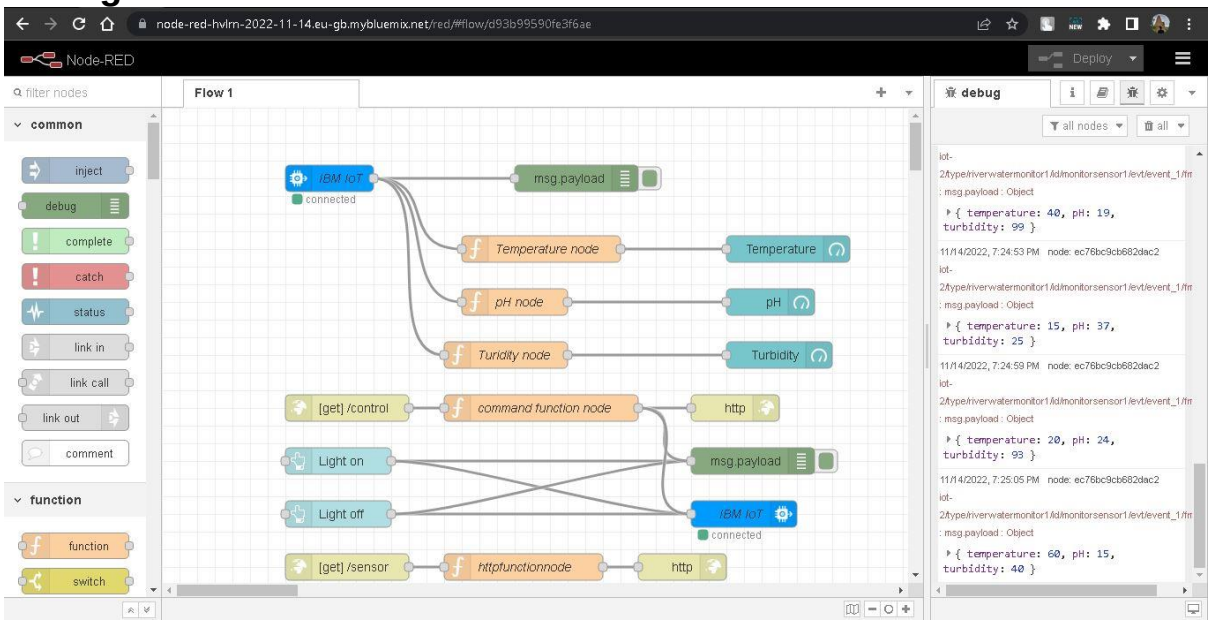
Sprint-4

Date	15 November 2022
Team ID	PNT2022TMID47455
Project Name	Real Time River Water Quality Monitoring and Control System
Maximum Marks	20 marks

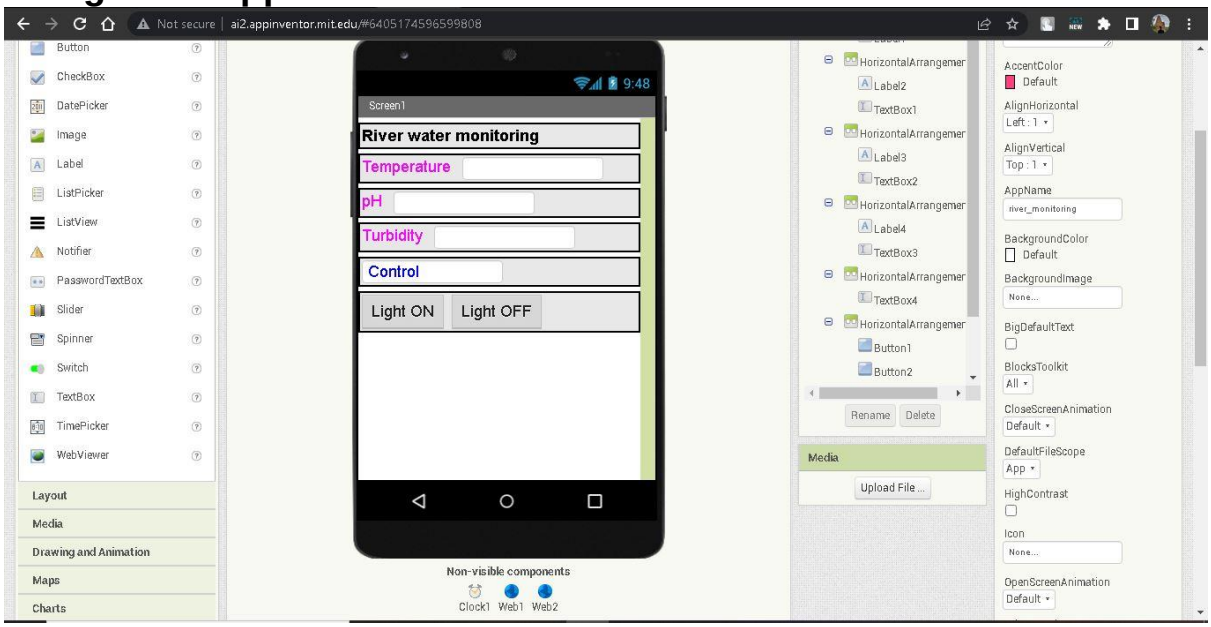
US-1: Create Web UI in Node-RED.

US-2: Configure the Node-RED flow to receive data from the IBM IoT Platform.

Configure the Node-RED flow.



Design MIT App to make it as user interface.



Designing blocks for the app using Node-RED App web url.

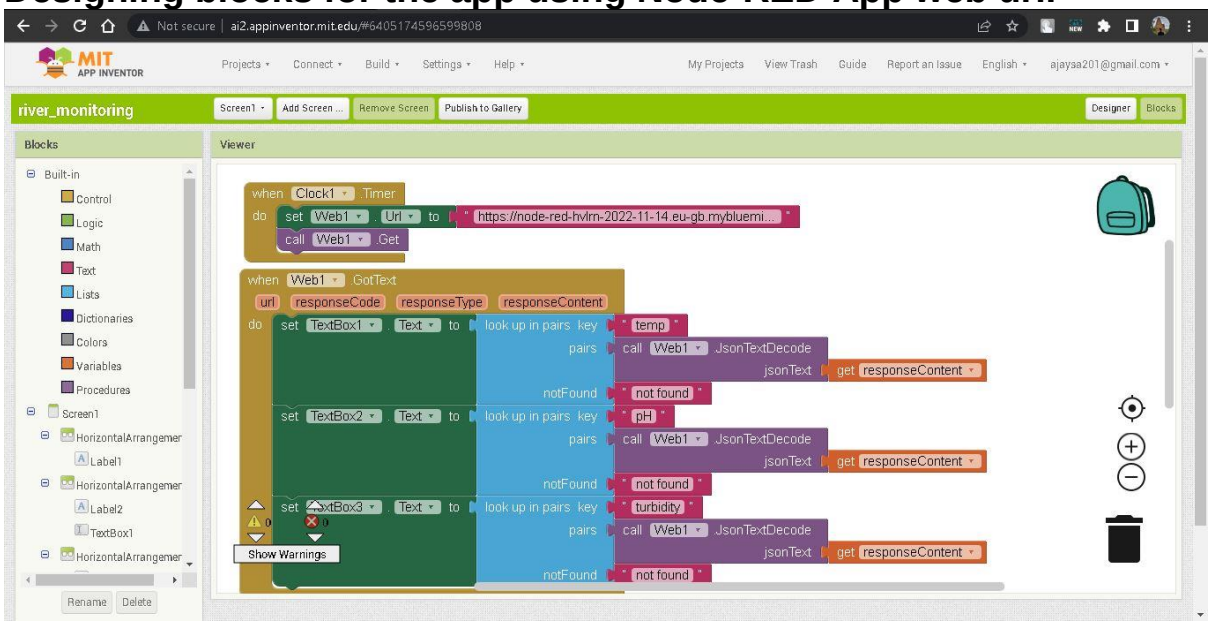


Fig 1

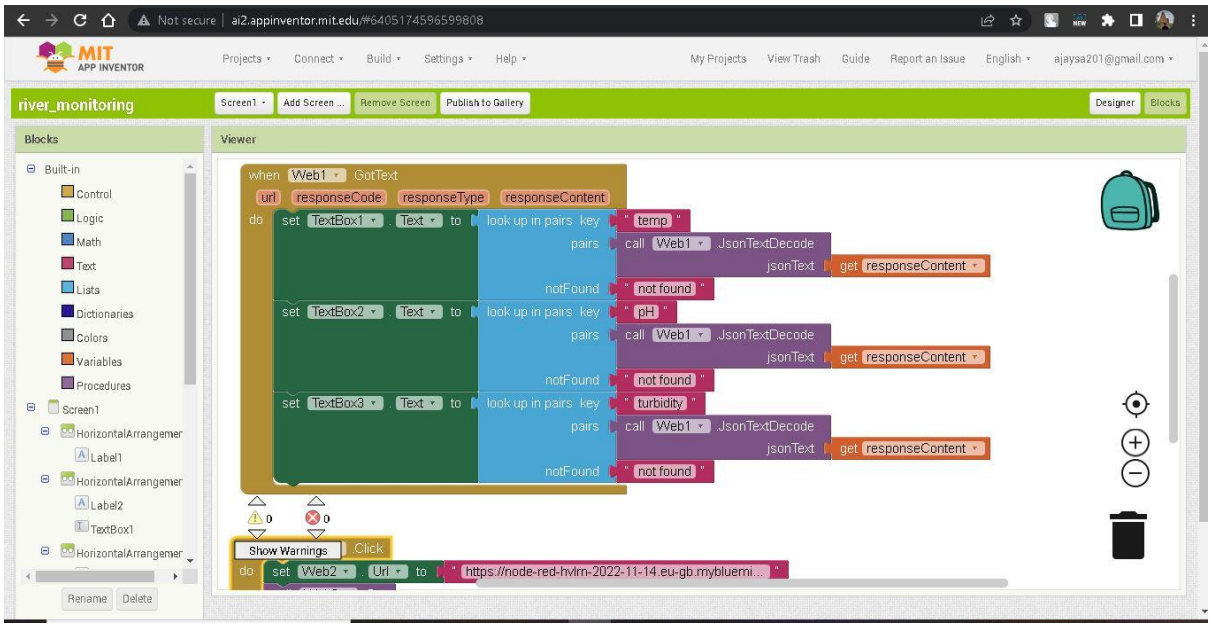


Fig 2

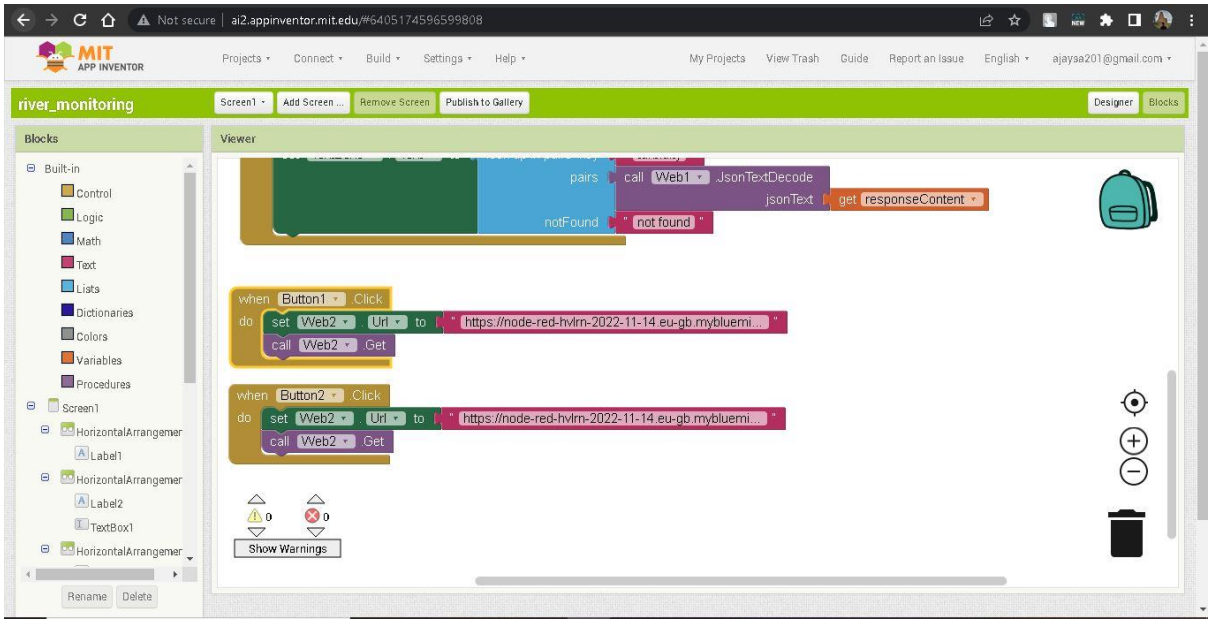


Fig 3

Generate QR code with AI Companion and scan the QR code using mobile (MIT App Inventor) app.

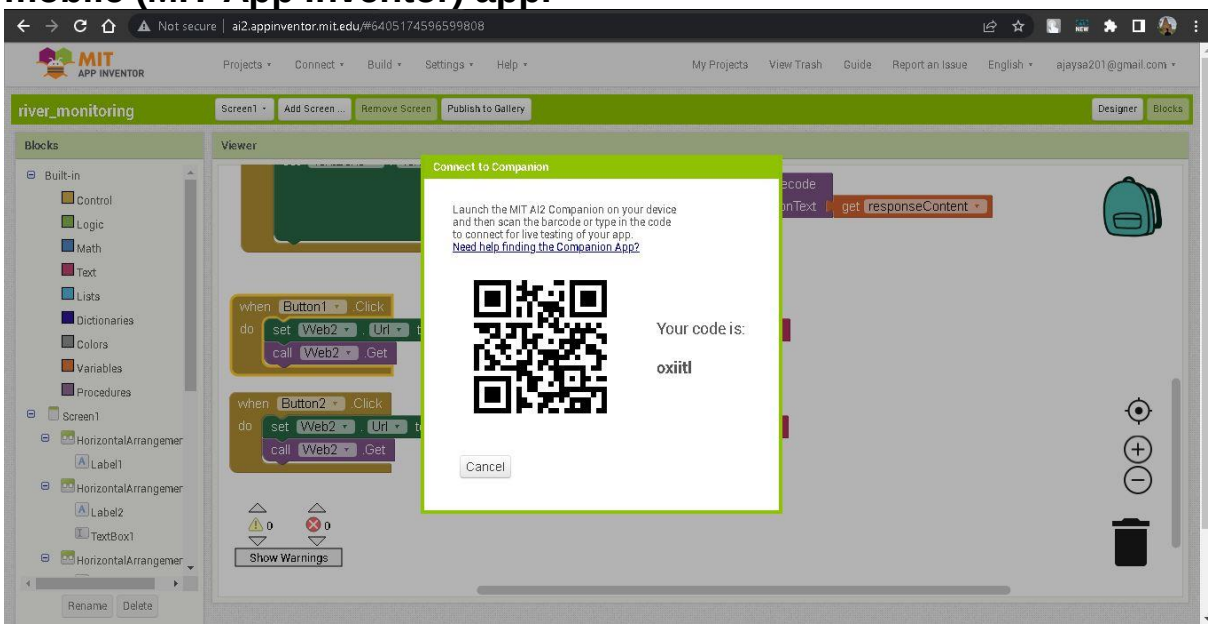


Fig 4

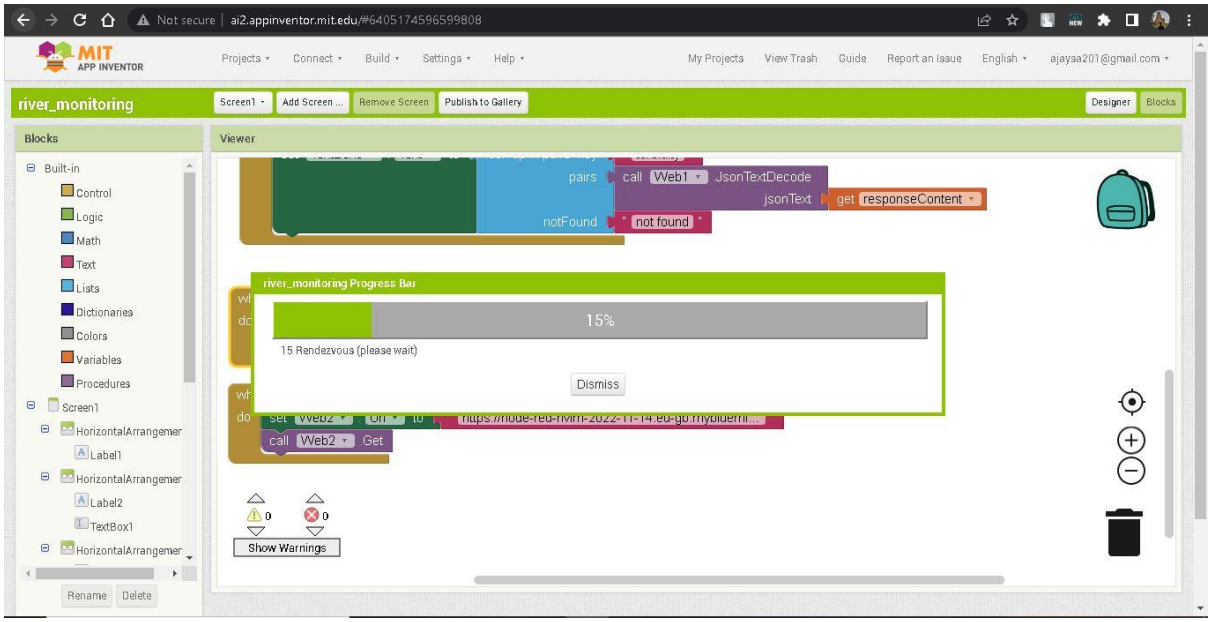

Not secure | ai2.appinventor.mit.edu/#6405174596599808
MIT APP INVENTOR
Projects
Connect
Build
Settings
Help
My Projects
View Trash
Guide
Report an Issue
English
ajayaa201@gmail.com
river_monitoring
Screen1
Add Screen ...
Remove Screen
Publish to Gallery
Designer
Blocks
Blocks
Viewer
Built-in
Control
Logic
Math
Text
Lists
Dictionaries
Colors
Variables
Procedures
Screen1
HorizontalArrangemer
Label1
HorizontalArrangemer
Label2
TextBox1
HorizontalArrangemer
Rename
Delete
pairs
call Web1 .JsonTextDecode
jsonText
get responseContent
notFound
not found
river_monitoring Progress Bar
15%
15 Rendezvous (please wait)
Dismiss
call Web2 .Get
0
0
Show Warnings

Fig 5

The data generated in the mobile app is ,

Web url to get temperature, pH and turbidity value:
https://node-red-hvlrn-2022-11-14.eu-gb.mybluemix.net/sensor

Web url to control light on and off:
https://node-red-hvlrn-2022-11-14.eu-gb.mybluemix.net/control?command=lighton

https://node-red-hvlrn-2022-11-14.eu-gb.mybluemix.net/control?command=lightoff