

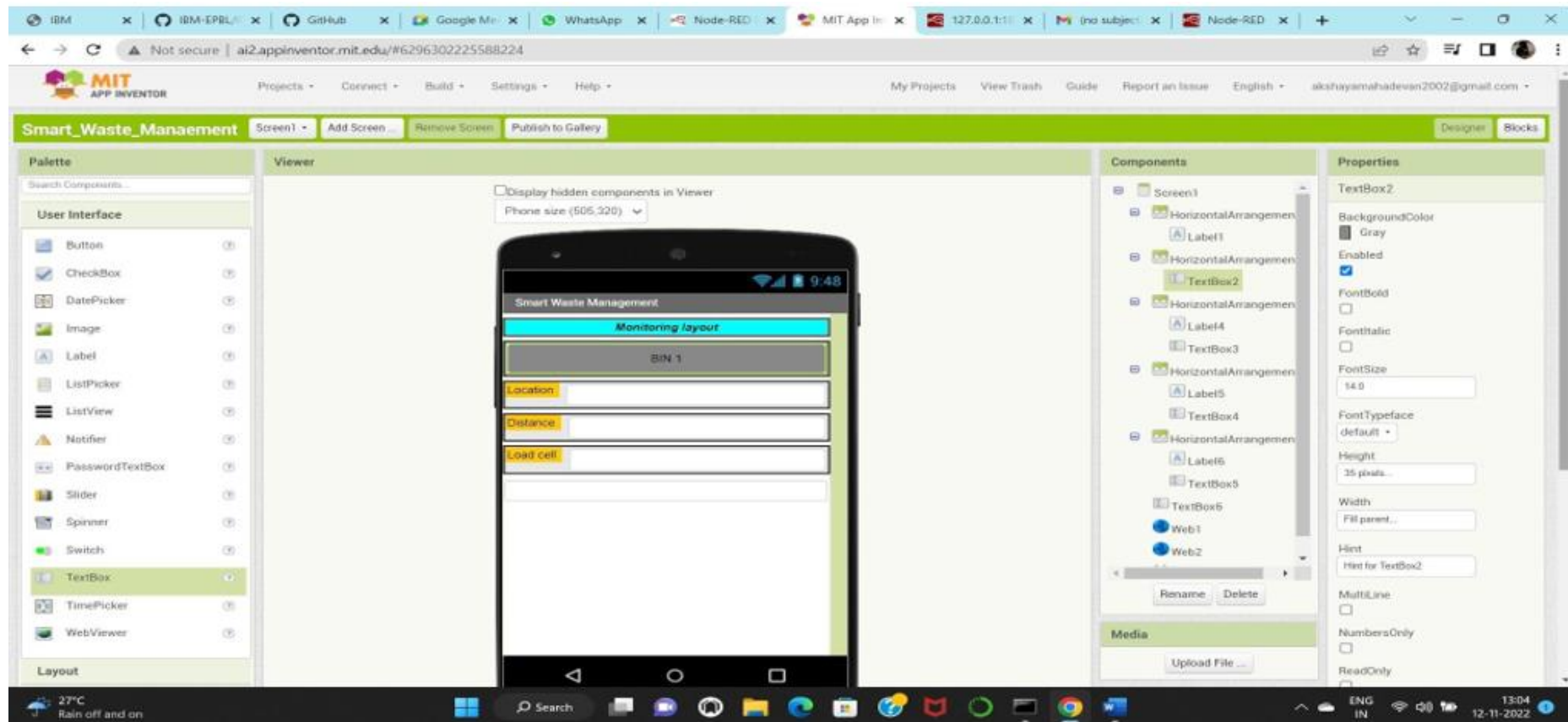
Project Development Phase Sprint 4

Date	8 November 2022
Team ID	PNT2022TMID13383
Project Name	Smart waste management system for metropolitan cities
Maximum Marks	8 Marks

Publishing Data to IBM cloud:

In sprint 4 we have created web application in MIT APP INVENTOR using NODE RED FLOWS in the backend and web interface in designed as per need. Output is seen is mobile by scanning the code generated by MIT APP INVENTOR.

MIT WEBPAGE DESIGN WINDOW



BACKEND NODE RED FLOW CONNECTION

The screenshot displays the MIT App Inventor web interface for a project named "Smart_Waste_Management". The interface is divided into several sections:

- Top Bar:** Includes the MIT App Inventor logo, navigation links (Projects, Connect, Build, Settings, Help), and user information (My Projects, View Trash, Guide, Report an Issue, English, and email: akshayamahadevan2002@gmail.com).
- Project Header:** Shows the project name "Smart_Waste_Management" and buttons for "Screen1", "Add Screen...", "Remove Screen", and "Publish to Gallery".
- Left Panel (Blocks):** Contains a "Built-in" section with categories like Control, Logic, Math, Text, Lists, Dictionaries, Colors, Variables, and Procedures. It also shows a "Screen1" section with components like HorizontalArrangement, Label1, TextBox2, and Label4.
- Right Panel (Viewer):** Displays the visual representation of the app, showing a backpack icon and a "Show Warnings" button.
- Flowchart (Logic):** The central workspace contains two event-driven logic blocks:
 - when Clock1.Timer**: A "do" block containing "set Web1.Url to http://127.0.0.1:1880/sensor" and "call Web1.Get".
 - when Web1.GotText**: A "do" block with a table structure for response data. The table has columns: url, responseCode, responseType, and responseContent. The logic includes:
 - set TextBox4.Text to look up in pairs key "dist" (pairs call Web1.JsonTextDecodeWithDictionaries, jsonText get responseType, not found).
 - set TextBox5.Text to look up in pairs key "load" (pairs call Web1.JsonTextDecodeWithDictionaries, jsonText get responseType, not found).
 - set TextBox6.Text to look up in pairs key "alert" (pairs call Web1.JsonTextDecodeWithDictionaries, jsonText get responseType, not found).

The bottom of the image shows a Windows taskbar with the date and time: 13:04 12-11-2022.

QR CODE

IBM x IBM-EPBL x GitHub x Google Me x WhatsApp x Node-RED x MIT App In x 127.0.0.1:1 x (no subject) x Node-RED x +

Not secure | ai2.appinventor.mit.edu/#6296302225588224

MIT APP INVENTOR

Projects • Connect • Build • Settings • Help • My Projects • View Trash • Guide • Report an Issue • English • akshayamahadevan2002@gmail.com •

Smart_Waste_Management Screen1 • Add Screen ... Remove Screen Publish to Gallery Designer Blocks

Palette

Search Components...

User Interface

- Button
- CheckBox
- DatePicker
- Image
- Label
- ListPicker
- ListView
- Notifier
- PasswordTextBox
- Slider
- Spinner
- Switch
- TextBox
- TimePicker
- WebView

Layout

Viewer

☐ Display hidden components in Viewer

Phone size (100%)

Smart Waste


Location

Distance

Load cell

Connect to Companion

Launch the MIT AI2 Companion on your device and then scan the barcode or type in the code to connect for live testing of your app.
[Need help finding the Companion App?](#)



Your code is:
nvzdtb

Cancel

Components

- Screen1
 - HorizontalArrangement
 - Label1
 - HorizontalArrangement
 - TextBox2
 - HorizontalArrangement
 - Label4
 - TextBox3
 - HorizontalArrangement
 - Label5
 - TextBox4
 - HorizontalArrangement
 - Label6
 - TextBox5
 - TextBox6
 - Web1
 - Web2

Rename Delete

Media

Upload File ...

Properties

TextBox2

- BackgroundColor
 - Gray
- Enabled
 - ☒
- FontBold
 - ☐
- FontItalic
 - ☐
- FontSize
 - 14.0
- FontTypeface
 - default
- Height
 - 35 pixels
- Width
 - Fill parent
- Hint
 - Hint for TextBox2
- MultiLine
 - ☐
- NumbersOnly
 - ☐
- ReadOnly
 - ☐





27°C Rain off and on

Search

ENG IN

12:56 12-11-2022

OUTPUTS IN MOBILE

12:48    VoLTE 58% 

Smart Waste Management

Monitoring layout


BIN 1

Location Chennai - MMDA

Distance 12

Load cell 15

NEED BIN CHANGE !!!!



12:50

VoLTE 58%

Smart Waste Management

Monitoring layout

BIN 2

Location Chennai - valapalini

Distance 40

Load cell 10

NO NEED TO COLLECT RIGHT NOW