

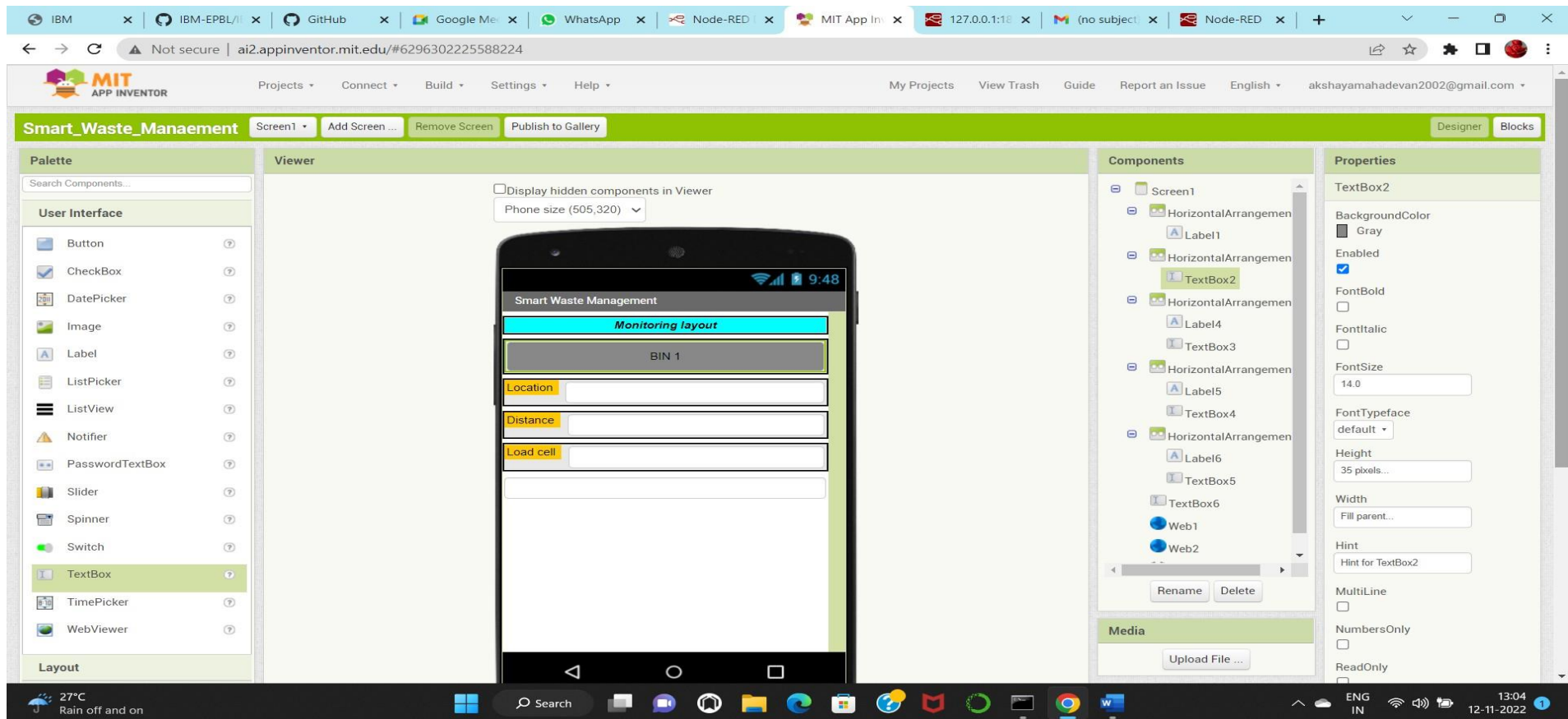
## Project Development Phase Sprint 4

Date	8 November 2022
Team ID	PNT2022TMID01046
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 Bar:** Shows the project name "Smart\_Waste\_Management" and buttons for "Screen1", "Add Screen...", "Remove Screen", and "Publish to Gallery".
- Blocks Panel:** Located on the left, it contains categories like Built-in, Screen1, HorizontalArrangement, and Media. The "Screen1" category is expanded, showing components like Label1, TextBox2, and Label4.
- Viewer:** The central workspace showing the visual representation of the app. It features a "when Clock1.Timer" block with a "do" block containing "set Web1.Url to" and "call Web1.Get". Below this is a "when Web1.GetText" block with a "do" block containing three "set" blocks for "TextBox4", "TextBox5", and "TextBox6". Each "set" block is followed by a "look up in pairs" block, which then branches into "pairs" and "notFound" paths. The "pairs" paths lead to "call Web1.JsonTextDecodeWithDictionaries" blocks, which then lead to "jsonText" and "get responseType" blocks. The "notFound" paths lead to "alert" blocks.
- Bottom Bar:** Shows the system tray with weather information (27°C, Rain off and on), search, and various application icons.

The Node-RED flow connection is visible in the background, showing the integration between the MIT App Inventor and the Node-RED backend.

## QR CODE

IBM x IBM-EPBL/II x GitHub x Google Me x WhatsApp x Node-RED x MIT App In x 127.0.0.1:18 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 akshayahadevan2002@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 (360x640)

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
  - HorizontalArrangemen
    - Label1
  - HorizontalArrangemen
    - TextBox2
  - HorizontalArrangemen
    - Label4
    - TextBox3
  - HorizontalArrangemen
    - Label5
    - TextBox4
  - HorizontalArrangemen
    - 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 58%

Smart Waste Management

**Monitoring layout**

BIN 1

Location Chennai - MMDA

Distance 12

Load cell 15

NEED BIN CHANGE !!!!

12:50

VoIP LTE 58%

## Smart Waste Management

### Monitoring layout

BIN 2

Location Chennai - valapalini

Distance 40

Load cell 10

NO NEED TO COLLECT RIGHT NOW

