

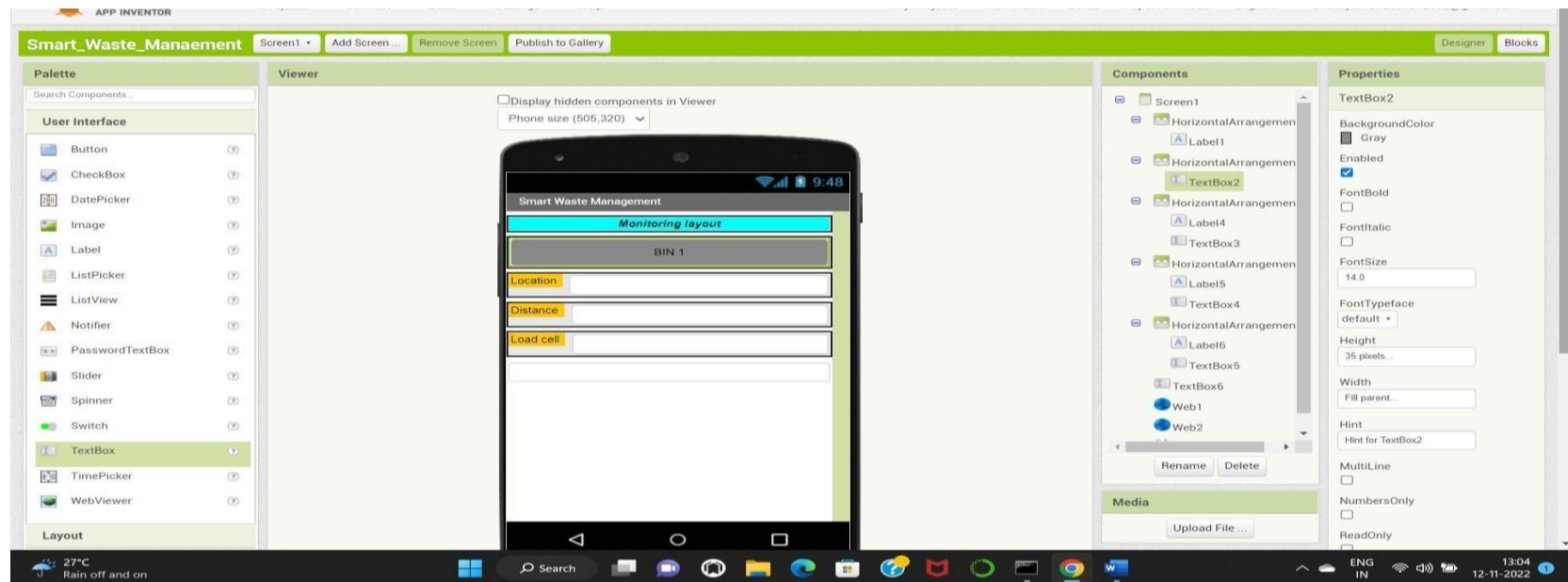
**PROJECT DEVELOPMENT PHASE**  
**SPRINT 4**

Team ID	PNT2022TMID04593
Project Name	Smart waste management system for metropolitan cities
Maximum marks	8 marks

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

# SCREENSHOTS OF MIT INVENTOR:

## MIT WEBPAGE DESIGN WINDOW



## BACKEND NODE RED FLOW CONNECTION

The screenshot displays the App Inventor interface for a project named "Smart\_Waste\_Management". The interface is divided into three main sections: a left sidebar with "Blocks" and "Media", a top bar with project management options, and a central "Viewer" area for the flowchart.

**Top Bar:** Includes the project name "Smart\_Waste\_Management", a dropdown for "Screen1", and buttons for "Add Screen ...", "Remove Screen", and "Publish to Gallery". On the right, there are tabs for "Designer" and "Blocks".

**Left Sidebar:**

- Blocks:** A list of built-in blocks categorized by type: Control, Logic, Math, Text, Lists, Dictionaries, Colors, Variables, and Procedures. Below this is a section for "Screen1" containing "HorizontalArrangemen" (twice) and "Label1", "TextBox2", and "Label4".
- Media:** Includes an "Upload File ..." button.

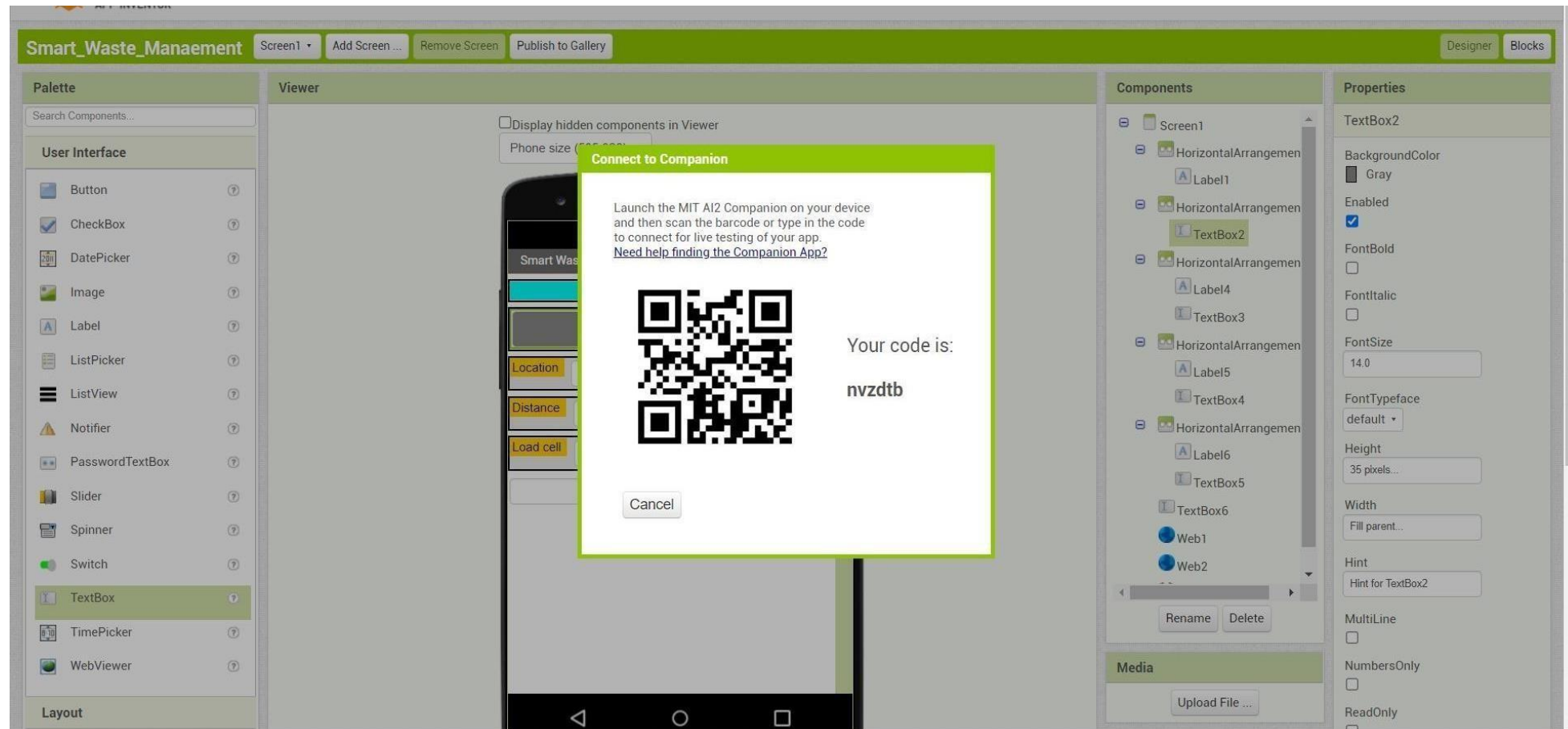
**Viewer Area:** Displays a flowchart with the following logic:

- when Clock1.Timer** (Trigger):
  - do** (Loop):
    - set Web1.Url** to "http://127.0.0.1:1880/sensor"
    - call Web1.Get**
- when Web1.GotText** (Trigger):
  - do** (Loop):
    - set TextBox4.Text** to **look up in pairs** key "dist". If not found, call **Web1.JsonTextDecodeWithDictionaries** with **jsonText** "not found" and **get responseType**.
    - set TextBox5.Text** to **look up in pairs** key "load". If not found, call **Web1.JsonTextDecodeWithDictionaries** with **jsonText** "not found" and **get responseType**.
    - set TextBox6.Text** to **look up in pairs** key "alert". If not found, call **Web1.JsonTextDecodeWithDictionaries** with **jsonText** "not found" and **get responseType**.

**Bottom Left:** A "Show Warnings" button with two warning icons (yellow triangle and red X) and a count of 0.

**Right Side:** A vertical toolbar with icons for zooming in (+), zooming out (-), and a trash can.

**OR CODE**



## OUTPUTS IN MOBILE

2:25 PM | 2.1KB/s | 📶 📶 📶 📶 📶 84

Smart Waste Management

*Monitoring layout*

BIN 1

Location chennai

Distance 12

Load cell 15

NEED BIN CHANGE!!!!

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Smart Waste Management

*Monitoring layout*

BIN 1

Location Kangeyam

Distance 40

Load cell 10

No need to collect right now

### Monitoring layout

Location	chennai
Distance	12
Load cell	15

NEED BIN CHANGE!!!!

2:25 PM | 2.1KB/s



## Smart Waste Management

### Monitoring layout

BIN 1

Location chennai

Distance 12

Load cell 15

NEED BIN CHANGE!!!!

