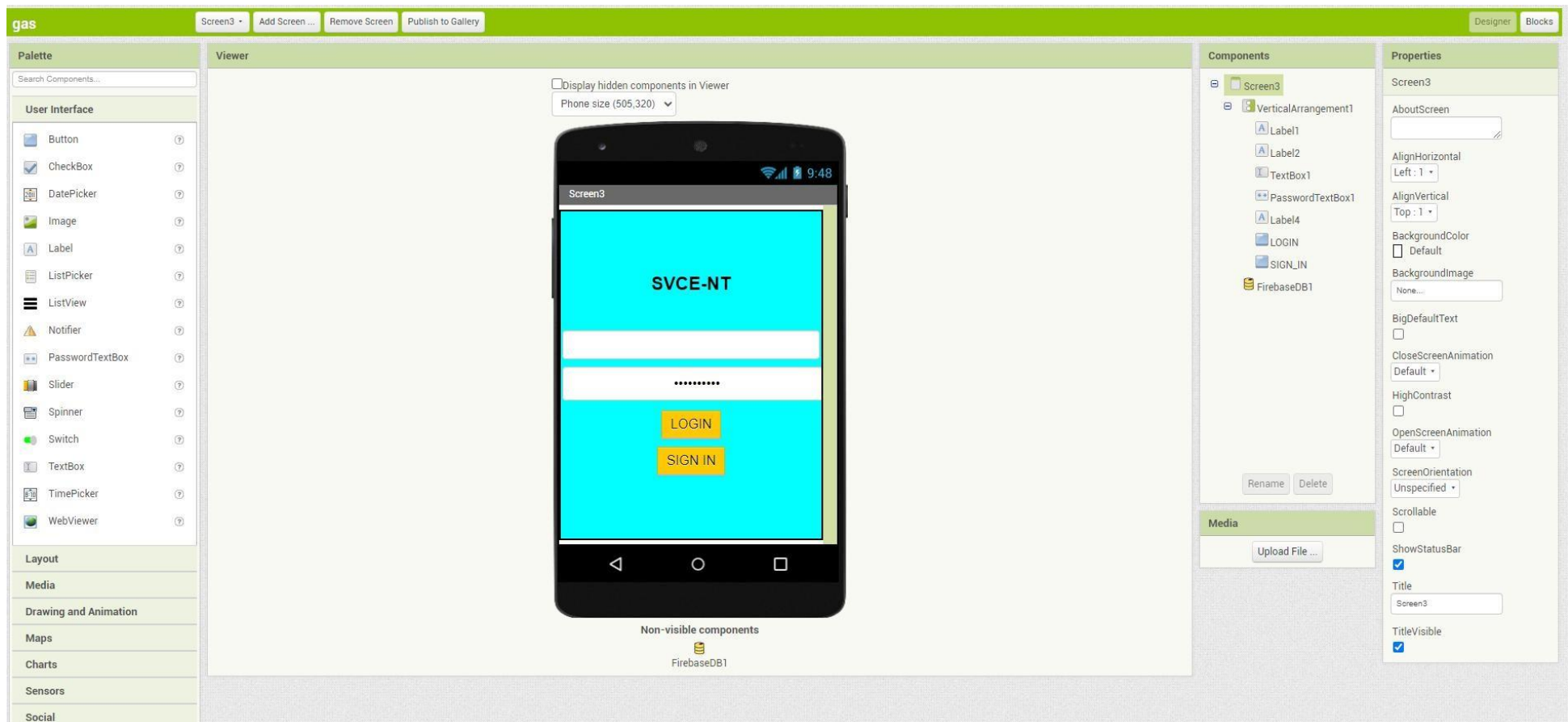


## SPRINT4

Date	17 November 2022
Team ID	PNT2022TMID36194
Project Name	Gas leakage monitoring and alerting system
Maximum Marks	20 POINTS

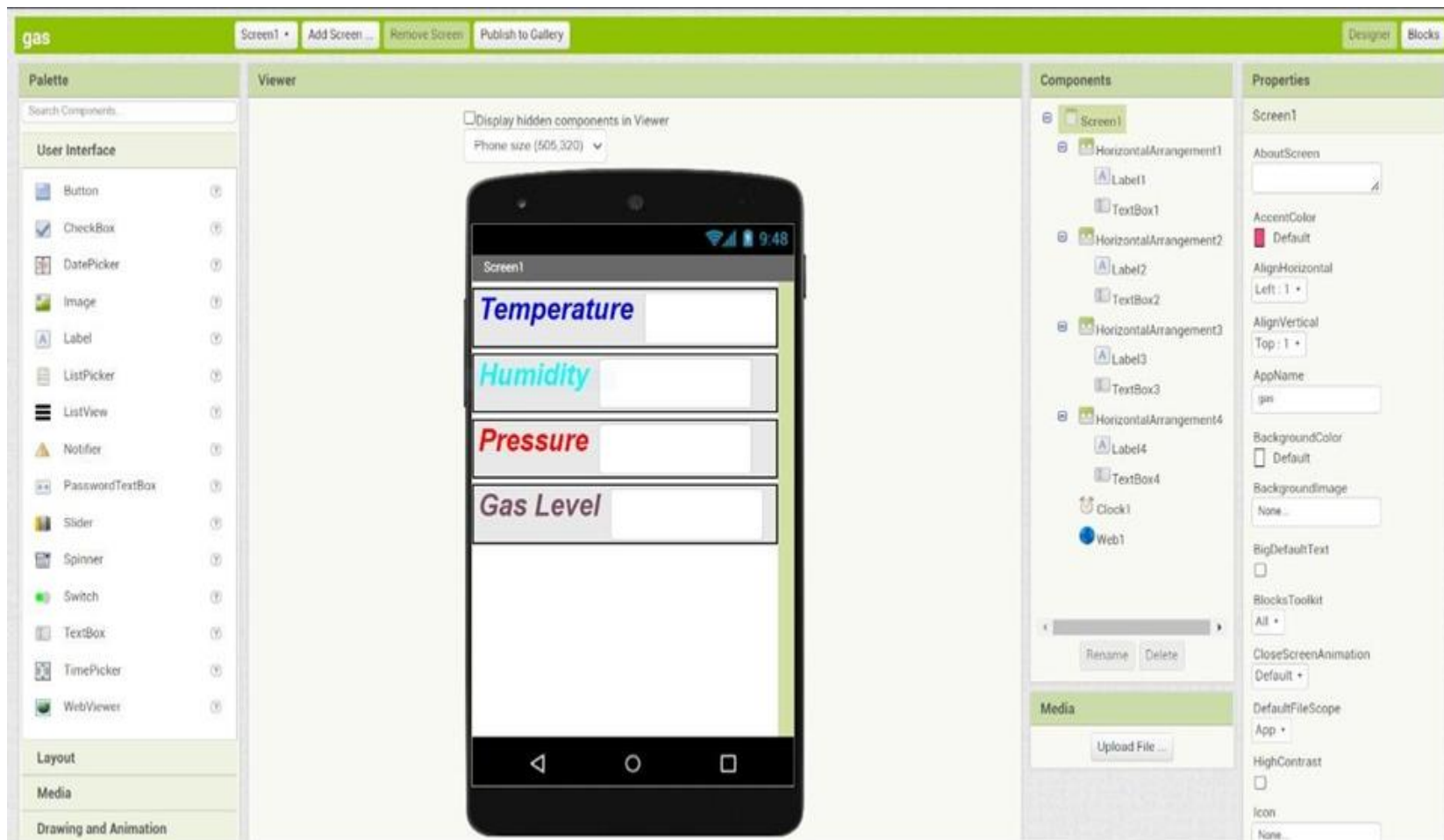
## USER LOGIN

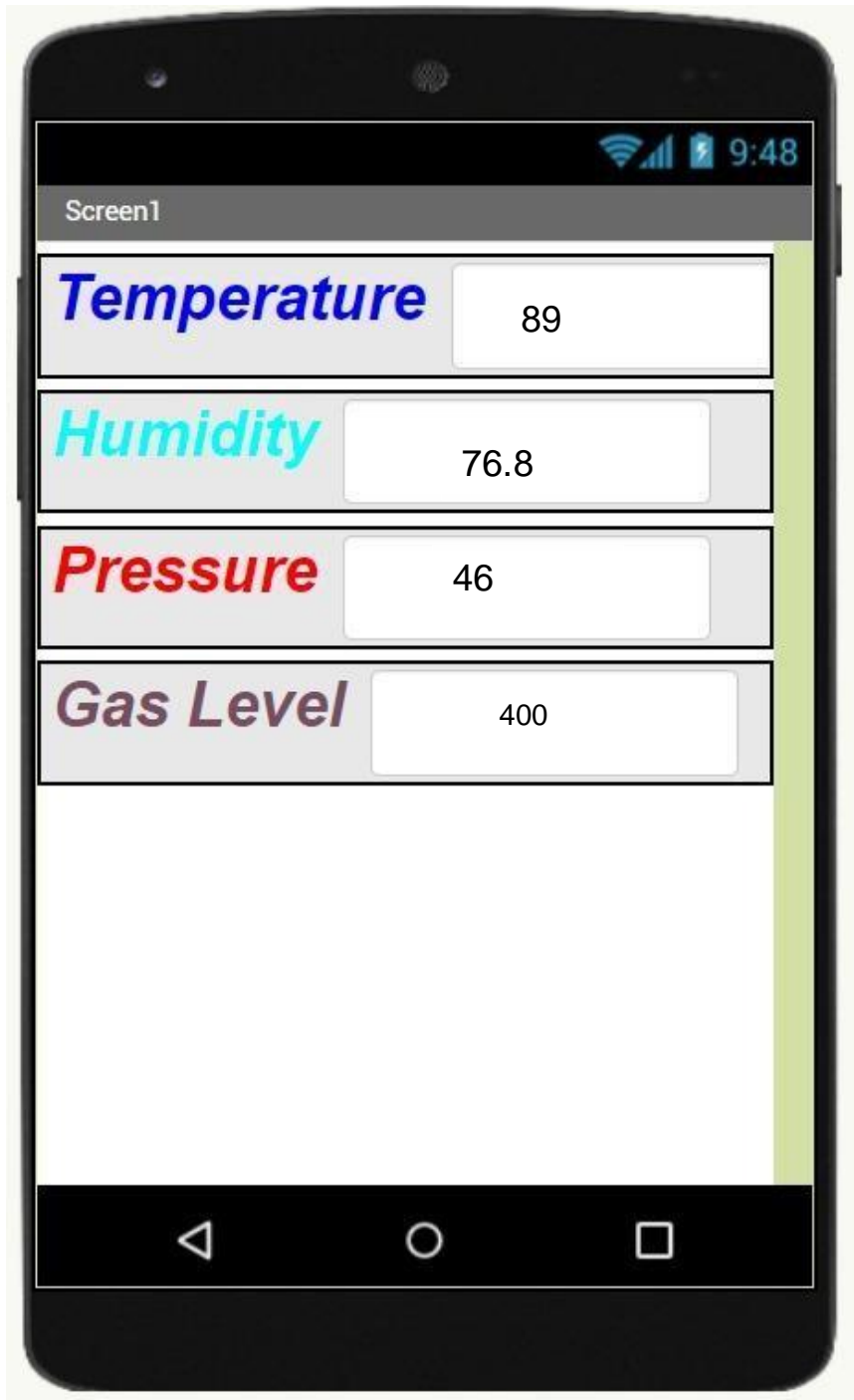


# DISPLAYING THE VALUE FORM NODE RED TO MIT INVERTER APP

The screenshot displays the MIT Inverter App Designer interface for an app named "gas". The interface is divided into several panels:

- Top Bar:** Contains the app name "gas", navigation buttons ("Screen1", "Add Screen...", "Remove Screen", "Publish to Gallery"), and tabs for "Designer" and "Blocks".
- Palette:** A sidebar on the left with a search bar and categorized components:
  - User Interface:** Includes Button, CheckBox, DatePicker, Image, Label, ListPicker, ListView, Notifier, PasswordTextBox, Slider, Spinner, Switch, TextBox, TimePicker, and WebViewer.
  - Layout**
  - Media**
  - Drawing and Animation**
  - Maps**
  - Charts**
  - Sensors**
  - Social**
- Viewer:** The central workspace showing a mobile phone mockup. The app screen displays:
  - Header: "Screen1"
  - Section 1: "Temperature" with a text input field.
  - Section 2: "Gas Level" with a text input field.
  - Footer: A "Navigate" button.Below the mockup, a "Non-visible components" section lists "Web1", "Clock1", and "Notifier1".
- Components:** A tree view on the right showing the hierarchy of the app's UI elements:
  - Screen1
    - HorizontalArrangement1
      - Label1
      - TextBox2
    - HorizontalArrangement2
      - Label2
      - TextBox1
    - Button1
    - Web1
    - Clock1
    - Notifier1
- Properties:** A panel on the far right showing the configuration for the selected "Screen1" component, including settings for "AboutScreen", "AccentColor", "AlignHorizontal", "AlignVertical", "AppName" (set to "gas"), "BackgroundColor", "BackgroundImage", "BigDefaultText", "BlocksToolkit", "CloseScreenAnimation", "DefaultFileScope", "HighContrast", "Icon", "OpenScreenAnimation", "PrimaryColor", and "PrimaryColorDark".





# DISPLAYING THE LATITUDE AND LONGITUDE OF THE GAS LEAKAGE LOCATION IN MAP

gas Screen2 Add Screen ... Remove Screen Publish to Gallery Designer Blocks

Search Components...

User Interface

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

Layout

Media

Drawing and Animation

Maps

Charts

Viewer

☐ Display hidden components in Viewer

Phone size (505,320)

Non-visible components

- LocationSensor1
- Navigation1
- Web1
- Clock1

Components

- Screen2
  - Map1
    - Marker1
    - Marker2
    - LineString1
  - Button1
  - LocationSensor1
  - Navigation1
  - Web1
  - Clock1

Rename Delete

Media

Upload File ...

Properties

Screen2

AboutScreen

AlignHorizontal

Left: 1

AlignVertical

Top: 1

BackgroundColor

Default

BackgroundImage

None...

BigDefaultText

CloseScreenAnimation

Default

HighContrast

OpenScreenAnimation

Default

ScreenOrientation

Unspecified

Scrollable

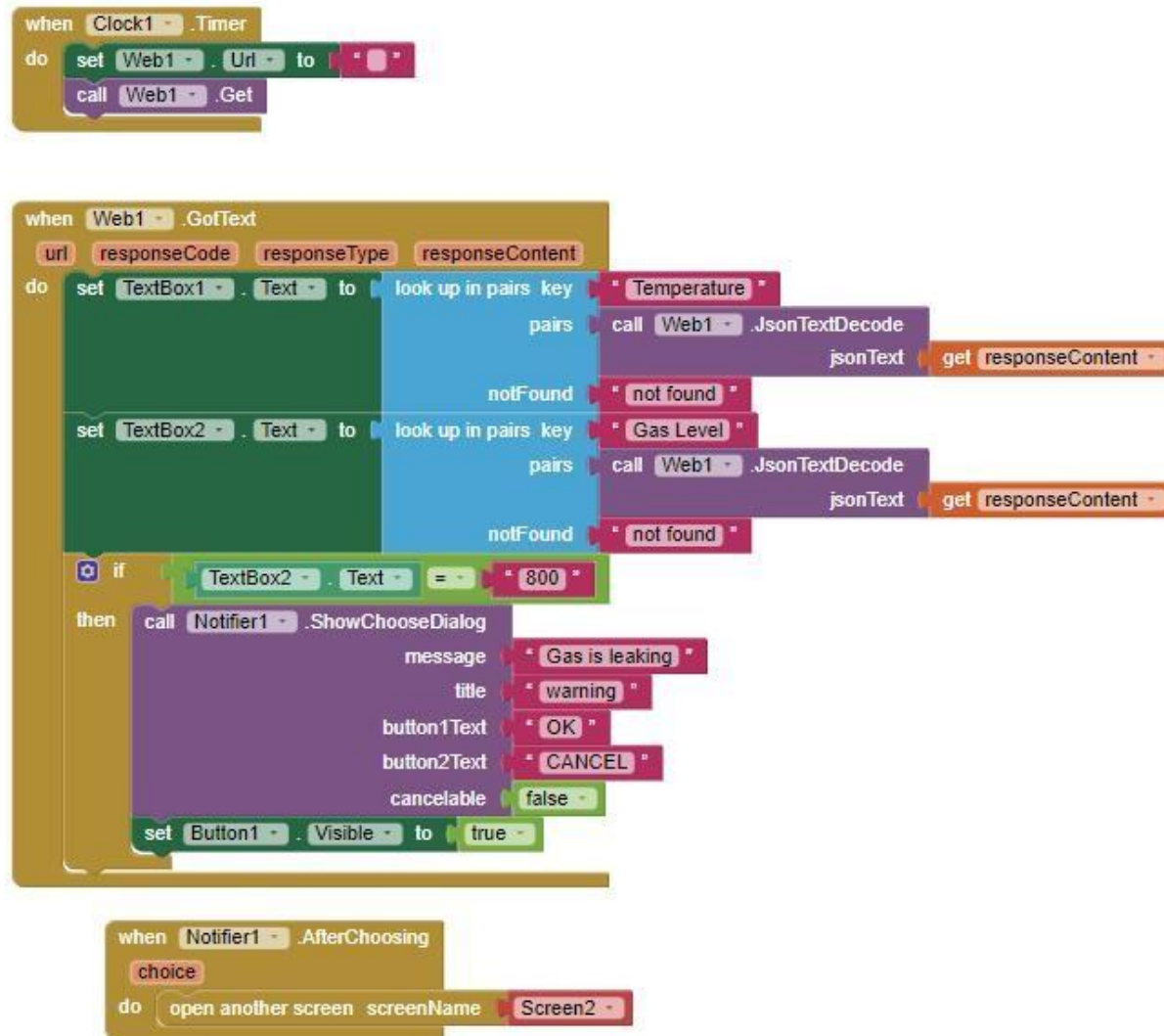
ShowStatusBar

Title

Screen2

TitleVisible

## BACKEND OF THE GAS LEAKAGE APP:





```

when Clock1.Timer
do
  set Web1.Url to "h"
  call Web1.Get

```

```

when Web1.GotText
  url responseCode responseType responseContent
do
  set Navigation1.EndLatitude to
    get responseContent latitude
    pairs call Web1.JsonTextDecode
    set responseContent to jsonText get responseContent
    notFound not found
  set Navigation1.EndLongitude to
    look up in pairs key Longitude
    pairs call Web1.JsonTextDecode
    notFound not found
    jsonText get responseContent

```

```

when Button1.Click
do
  call Map1.PanTo
    latitude LocationSensor1.Latitude
    longitude LocationSensor1.Longitude
    zoom 10
  set Navigation1.StartLatitude to LocationSensor1.Latitude
  set Navigation1.StartLongitude to LocationSensor1.Longitude
  set Marker1.Latitude to Navigation1.StartLatitude
  set Marker1.Longitude to Navigation1.StartLongitude
  set Marker2.Latitude to Navigation1.EndLatitude
  set Marker2.Longitude to Navigation1.EndLongitude
  call Navigation1.RequestDirections

```

```

when Navigation1.GotDirections
  directions points distance duration
do
  set LineString1.Points to get points
  set LineString1.Visible to true

```

