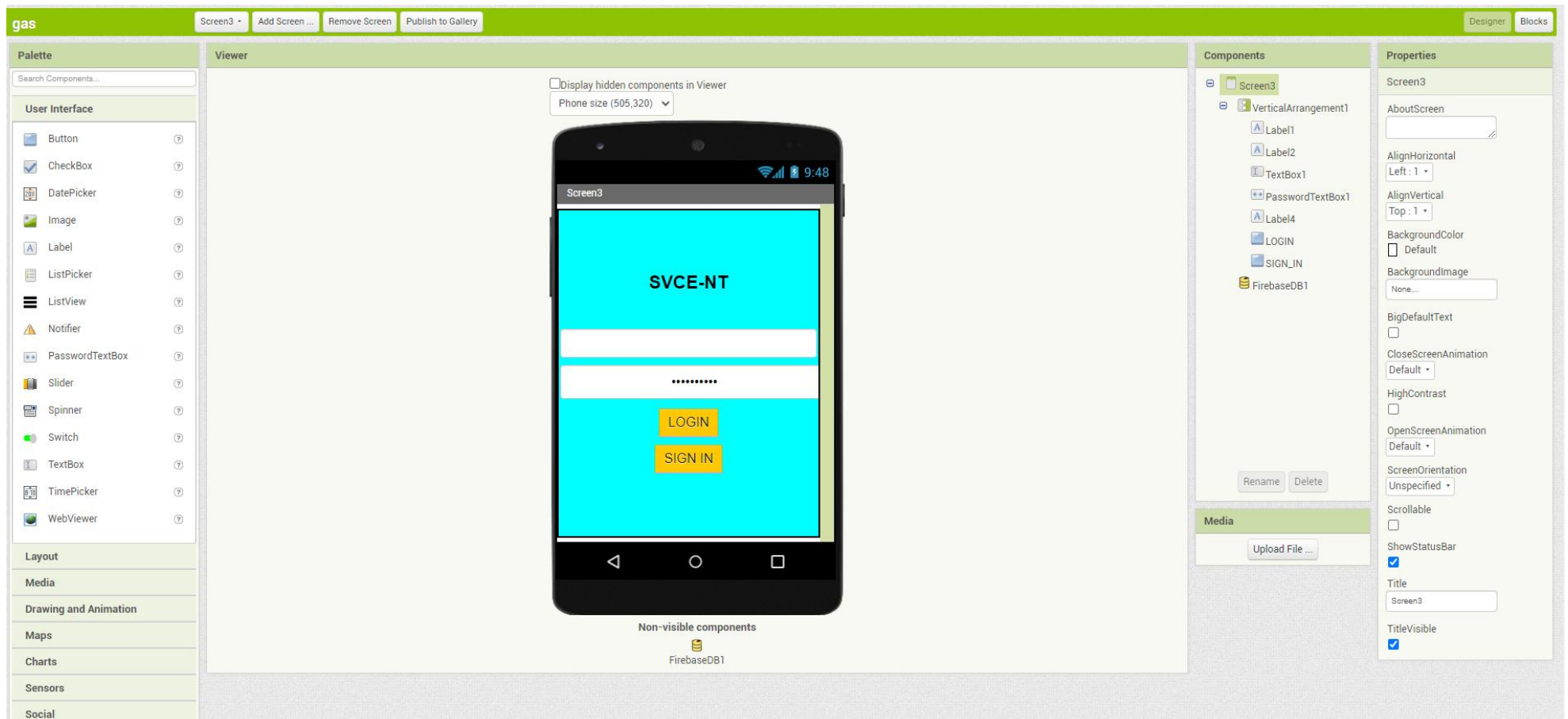


SPRINT4

Date	17 November 2022
Team ID	PNT2022TMID53571
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 App Inventor web interface for an app named "gas". The interface is divided into several panels:

- Top Bar:** Includes the app name "gas", buttons for "Screen1", "Add Screen...", "Remove Screen", and "Publish to Gallery", and tabs for "Designer" and "Blocks".
- Left Panel (Palette):** Contains a search bar and categorized components:
 - User Interface:** Button, CheckBox, DatePicker, Image, Label, ListPicker, ListView, Notifier, PasswordTextBox, Slider, Spinner, Switch, TextBox, TimePicker, WebViewer.
 - Layout:**
 - Media:**
 - Drawing and Animation:**
 - Maps:**
 - Charts:**
 - Sensors:**
 - Social:**
- Center Panel (Viewer):** Shows a mobile phone mockup of the app. The app has a status bar at the top with the time 9:48. The main screen is titled "Screen1" and contains two text boxes labeled "Temperature" and "Gas Level" in blue text. Below these is a "Navigate" button. A checkbox "Display hidden components in Viewer" is checked, and the phone size is set to "Phone size (505,320)".
- Right Panel (Components and Properties):**
 - Components:** A tree view showing the app's structure: Screen1 (HorizontalArrangement1, Label1, TextBox2, HorizontalArrangement2, Label2, TextBox1, Button1, Web1, Clock1, Notifier1).
 - Properties:** A list of properties for the selected component (Screen1), including AboutScreen, AccentColor, AlignHorizontal, AlignVertical, AppName, BackgroundColor, BackgroundImage, BigDefaultText, BlocksToolkit, CloseScreenAnimation, DefaultFileScope, HighContrast, Icon, OpenScreenAnimation, PrimaryColor, and PrimaryColorDark.

MIT App Inventor

MIT App Inventor

+

← → ↻ ⚠ Not secure | ai2.appinventor.mit.edu/#5400011807260672

🔗 ☆ ⚙ □ B ⋮

gas

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

Media

Drawing and Animation

Viewer

☐ Display hidden components in Viewer

Phone size (505,320) ▾

Screen1

Temperature

Humidity

Pressure

Gas Level

Components

Screen1

HorizontalArrangement1

Label1

TextBox1

HorizontalArrangement2

Label2

TextBox2

HorizontalArrangement3

Label3

TextBox3

HorizontalArrangement4

Label4

TextBox4

Clock1

Web1

Rename

Delete

Media

Upload File ...

Properties

Screen1

AboutScreen

AccentColor

Default

AlignHorizontal

Left: 1 ▾

AlignVertical

Top: 1 ▾

AppName

gas

BackgroundColor

Default

BackgroundImage

None...

BigDefaultText

☐

BlocksToolkit

All ▾

CloseScreenAnimation

Default ▾

DefaultFileScope

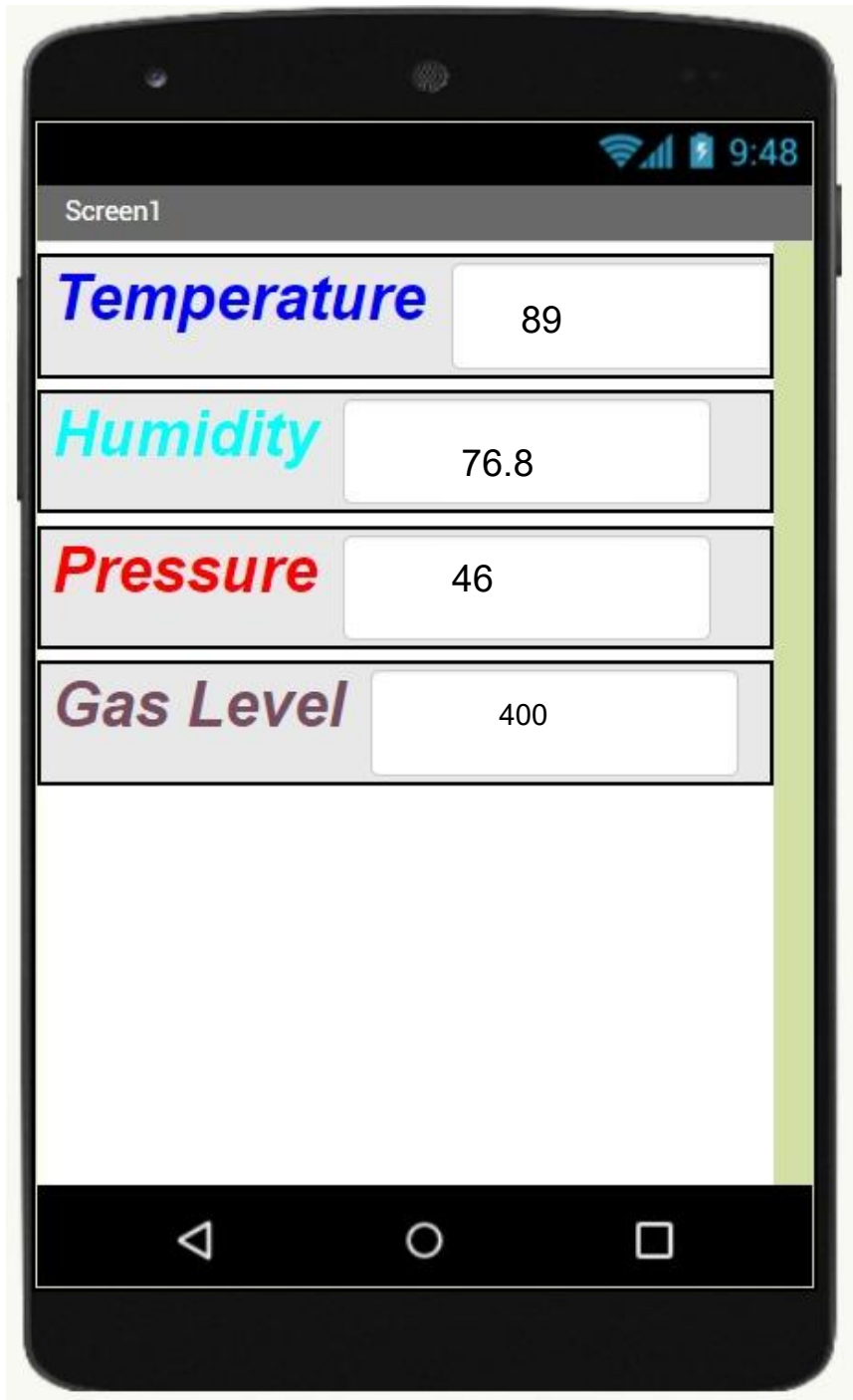
App ▾

HighContrast

☐

Icon

None...



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

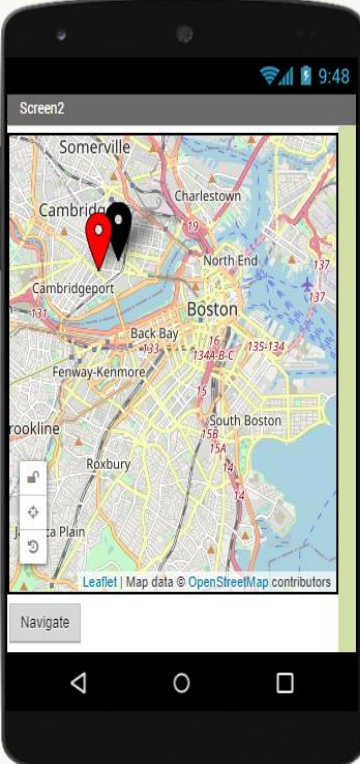
Charts

Viewer

☐ Display hidden components in Viewer

Phone size (505,320) ▾

Screen2



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

☒

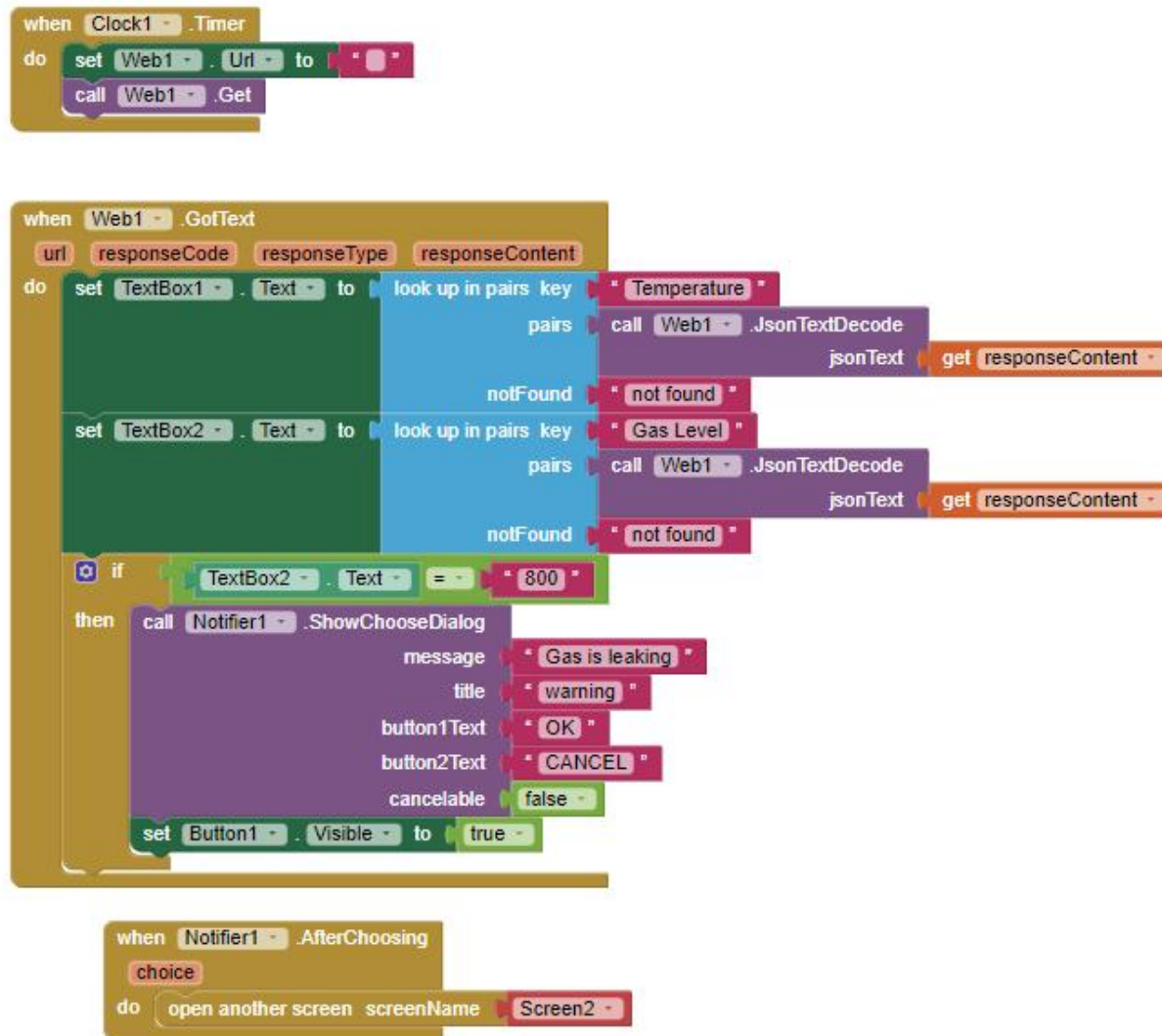
Title

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

```

