

SPRINT-3

Team ID	PNT2022TMID22877
Project Name	Gas Leakage Monitoring and Alerting System

S.NO	Tools & Technology Used
1	MIT App Inventor – For Creating Application
2	Cloudant DB – Used as a Database to store the received sensor data
3	Manual Testing – Apps are tested manually

BLOCK CREATION:

The screenshot displays the MIT App Inventor web interface for a project named "Gas_monitor". 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, balayogesh003@gmail.com).
- Project Bar:** Shows the project name "Gas_monitor" and tabs for "Screen1", "Add Screen ...", "Remove Screen", and "Publish to Gallery".
- Blocks Palette:** Located on the left, it lists various block categories: Built-in (Control, Logic, Math, Text, Lists, Dictionaries, Colors, Variables, Procedures), Screen1, Label5, HorizontalArranger, VerticalArranger, Label1, TextBox1, and Label6. There are also "Rename" and "Delete" buttons at the bottom.
- Viewer:** The central area showing the visual representation of the app. It contains a "Show Warnings" button and a "Gas_monitor" icon.
- Designer:** The rightmost section, currently showing a simple layout with a "Gas_monitor" icon and a "Show Warnings" button.

The "Blocks" palette on the left lists the following categories and items:

- Built-in
 - Control
 - Logic
 - Math
 - Text
 - Lists
 - Dictionaries
 - Colors
 - Variables
 - Procedures
- Screen1
 - Label5
- HorizontalArranger
 - VerticalArranger
- Label1
- TextBox1
- Label6

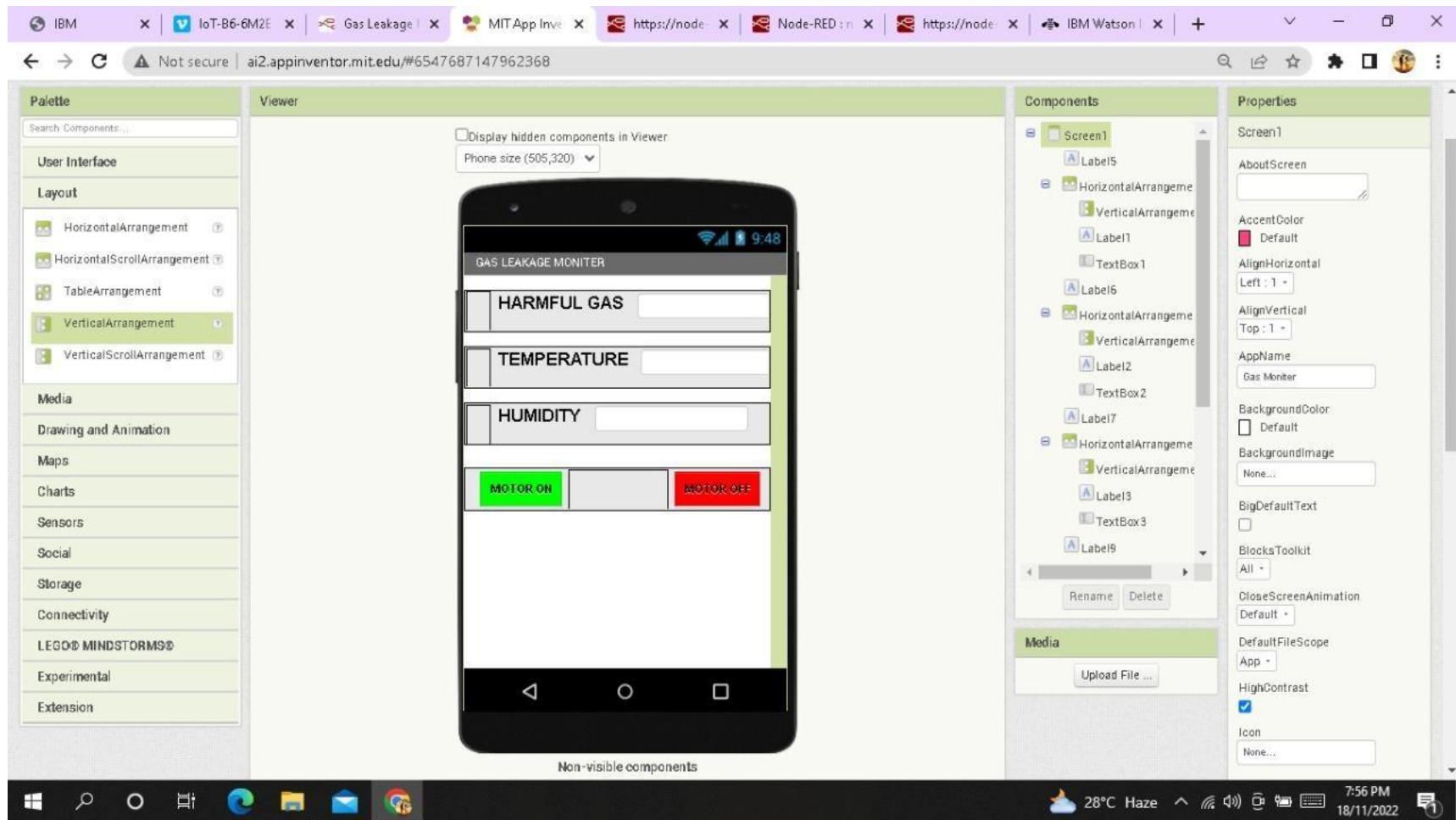
The "Viewer" area displays the following blocks:

- when Clock1.Timer**
 - do
 - set Web1.Uri to `https://node-red-logs-2022-11-05-au-syd.mybluem.`
 - call Web1.Get
- when Web1.Get Text**

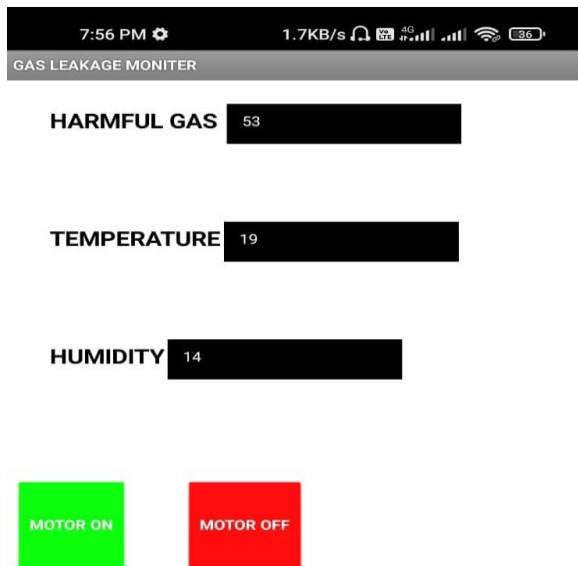
uri	responseCode	responseType	responseContent
look up in pairs key: "hamful_gas"	call Web1.JsonTextDecode	jsonText	get responseContent
not found	"not found"		
look up in pairs key: "temperature"	call Web1.JsonTextDecode	jsonText	get responseContent
not found	"not found"		
look up in pairs key: "humidity"	call Web1.JsonTextDecode	jsonText	get responseContent
not found	"not found"		
- when Button1.Click**
 - do
 - set Web2.Uri to `https://node-red-logs-2022-11-05-au-syd.mybluem.`
 - call Web2.Get
- when Button2.Click**
 - do
 - set Web2.Uri to `https://node-red-logs-2022-11-05-au-syd.mybluem.`
 - call Web2.Get

The browser's address bar shows the URL: `ai2.appinventor.mit.edu/#6547687147962368`. The system tray at the bottom indicates the time is 7:57 PM on 18/11/2022, with a temperature of 28°C and a "Haze" weather condition.

Home screen :



MOBILE SCREEN:



CLOUDANT DB:

The screenshot displays the Cloudant web interface for a database named 'gasmonitor_db'. The left sidebar contains navigation options: All Documents, Query, Permissions, Changes, and Design Documents. The main area shows a table of documents with columns 'id', 'key', and 'value'. The 'value' column contains JSON objects with a 'rev' field. The bottom status bar indicates 'Showing document 1 - 20' and 'Documents per page: 20'.

id	key	value
02105e0e7483256f3d9454b6721ef60f	02105e0e7483256f3d9454b6721ef60f	{ "rev": "1-d3162ddba6ceb8ca43786..." }
02105e0e7483256f3d9454b67223b5...	02105e0e7483256f3d9454b67223b5...	{ "rev": "1-14a77531dc5cc744c7094..." }
02105e0e7483256f3d9454b67224cb...	02105e0e7483256f3d9454b67224cb...	{ "rev": "1-60d3cb6ba1c543ff967b09..." }
02105e0e7483256f3d9454b67224fa...	02105e0e7483256f3d9454b67224fa...	{ "rev": "1-ab091c75d85d3b2fb6790..." }
02105e0e7483256f3d9454b672284e...	02105e0e7483256f3d9454b672284e...	{ "rev": "1-707007af60f6ee86a34219..." }
02105e0e7483256f3d9454b6722876...	02105e0e7483256f3d9454b6722876...	{ "rev": "1-fc8a4900e8b835bb12d47..." }
04917f2365d1f680db461b98b0395f48	04917f2365d1f680db461b98b0395f48	{ "rev": "1-5c519fa45b00678909ad9f..." }
04917f2365d1f680db461b98b03b3a0a	04917f2365d1f680db461b98b03b3a0a	{ "rev": "1-c759ef73900eac5d1dbf7ff..." }
04917f2365d1f680db461b98b04075...	04917f2365d1f680db461b98b04075...	{ "rev": "1-6cc691c3c4f57986c448b5..." }
04917f2365d1f680db461b98b045c65c	04917f2365d1f680db461b98b045c65c	{ "rev": "1-87a40f2b8fd1bde87c466e..." }
04917f2365d1f680db461b98b0497d...	04917f2365d1f680db461b98b0497d...	{ "rev": "1-5c5b63535e1d78dea1e2d..." }