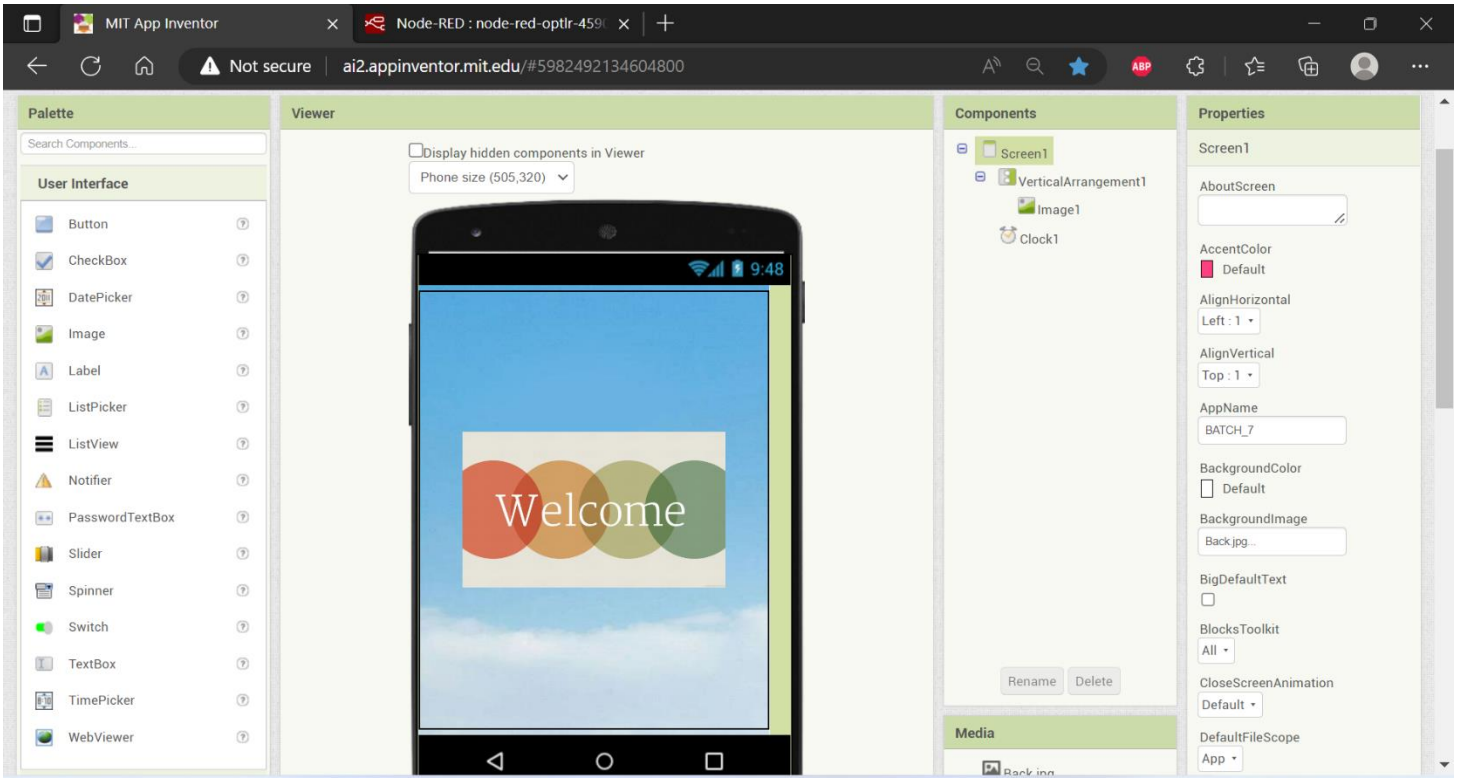
SPRINT 4

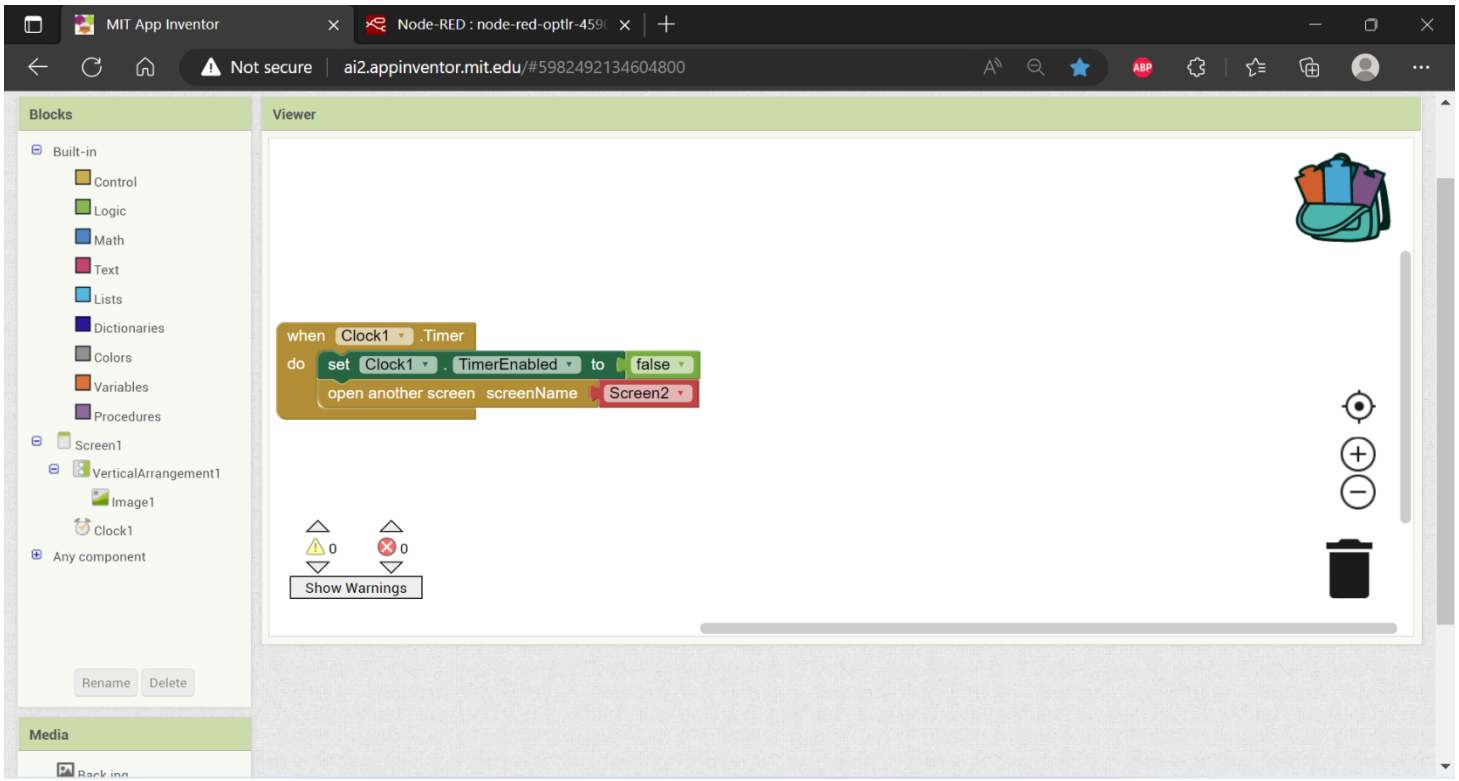
Team ID	PNT2022TMID04590
Project Name	**Project - IoT Based Safety Gadget for Child Safety Monitoring and Notification**

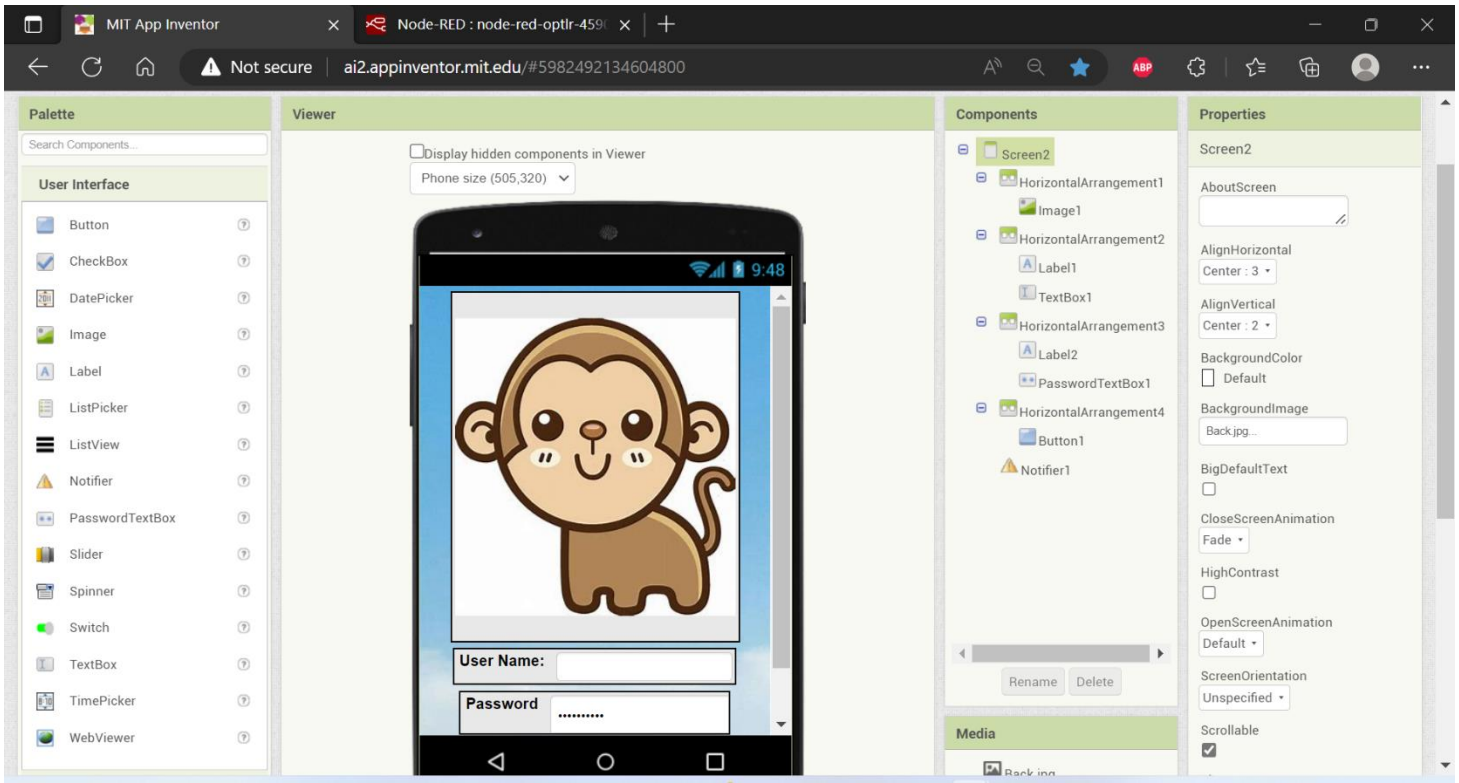
Aim:

To Connect the Node-Red Service and MIT app With Web UI [To show the child location]

Steps:




MIT App Inventor
Node-RED : node-red-optlr-459
Not secure
ai2.appinventor.mit.edu/#5982492134604800
Blocks
Built-in
Control
Logic
Math
Text
Lists
Dictionaries
Colors
Variables
Procedures
Screen1
VerticalArrangement1
Image1
Clock1
Any component
Rename
Delete
Media
Viewer
when Clock1 .Timer
do set Clock1 . TimerEnabled to false
open another screen screenName Screen2
0
0
Show Warnings


MIT App Inventor
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Not secure
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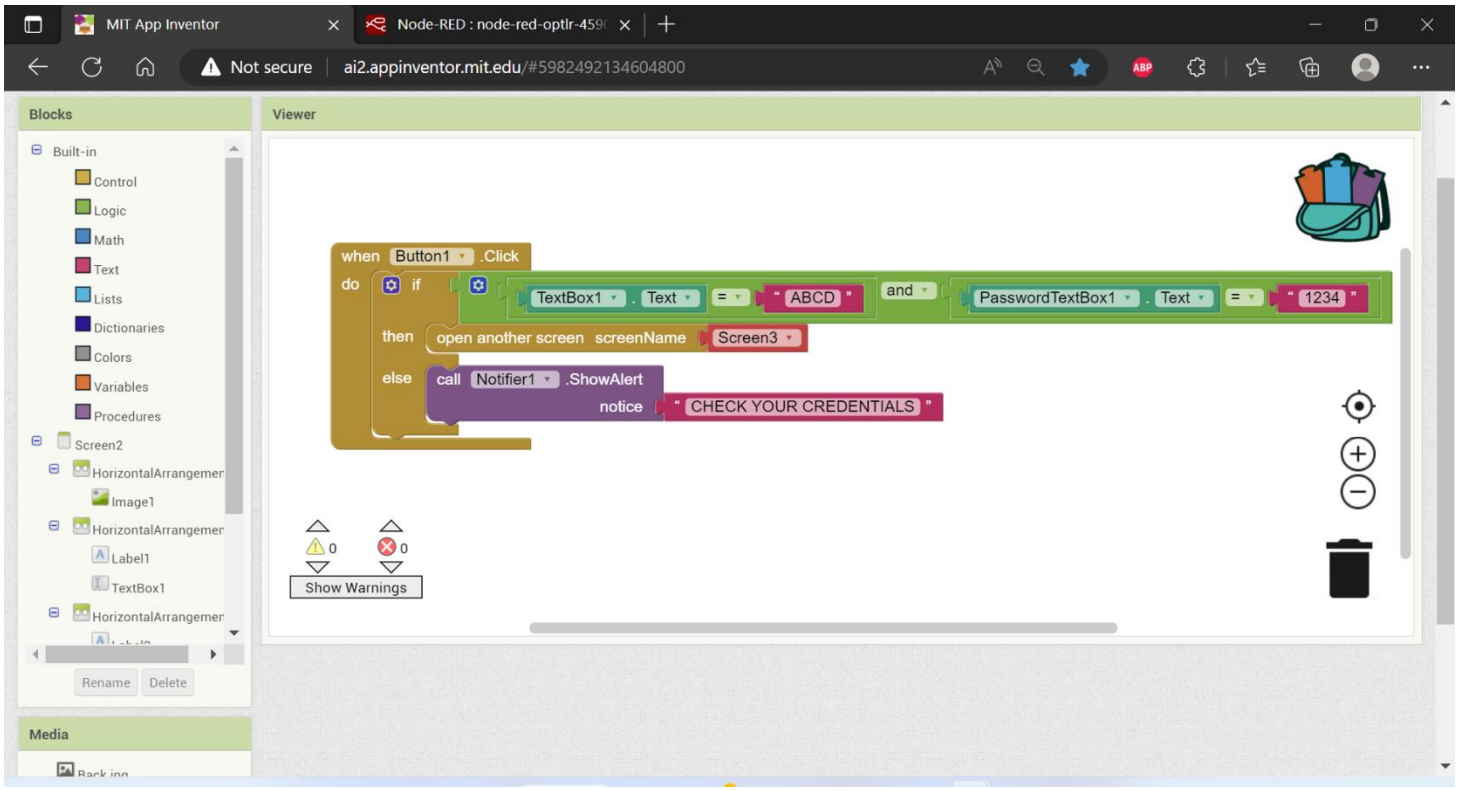
Palette
Search Components...
User Interface
Button
CheckBox
DatePicker
Image
Label
ListPicker
ListView
Notifier
PasswordTextBox
Slider
Spinner
Switch
TextBox
TimePicker
WebViewer
Viewer
Display hidden components in Viewer
Phone size (505,320)
9:48
User Name:
Password
Components
Screen2
HorizontalArrangement1
Image1
HorizontalArrangement2
Label1
TextBox1
HorizontalArrangement3
Label2
PasswordTextBox1
HorizontalArrangement4
Button1
Notifier1
Rename
Delete
Media
Properties
Screen2
AboutScreen
AlignHorizontal
Center : 3
AlignVertical
Center : 2
BackgroundColor
Default
BackgroundImage
Back.jpg...
BigDefaultText
CloseScreenAnimation
Fade
HighContrast
OpenScreenAnimation
Default
ScreenOrientation
Unspecified
Scrollable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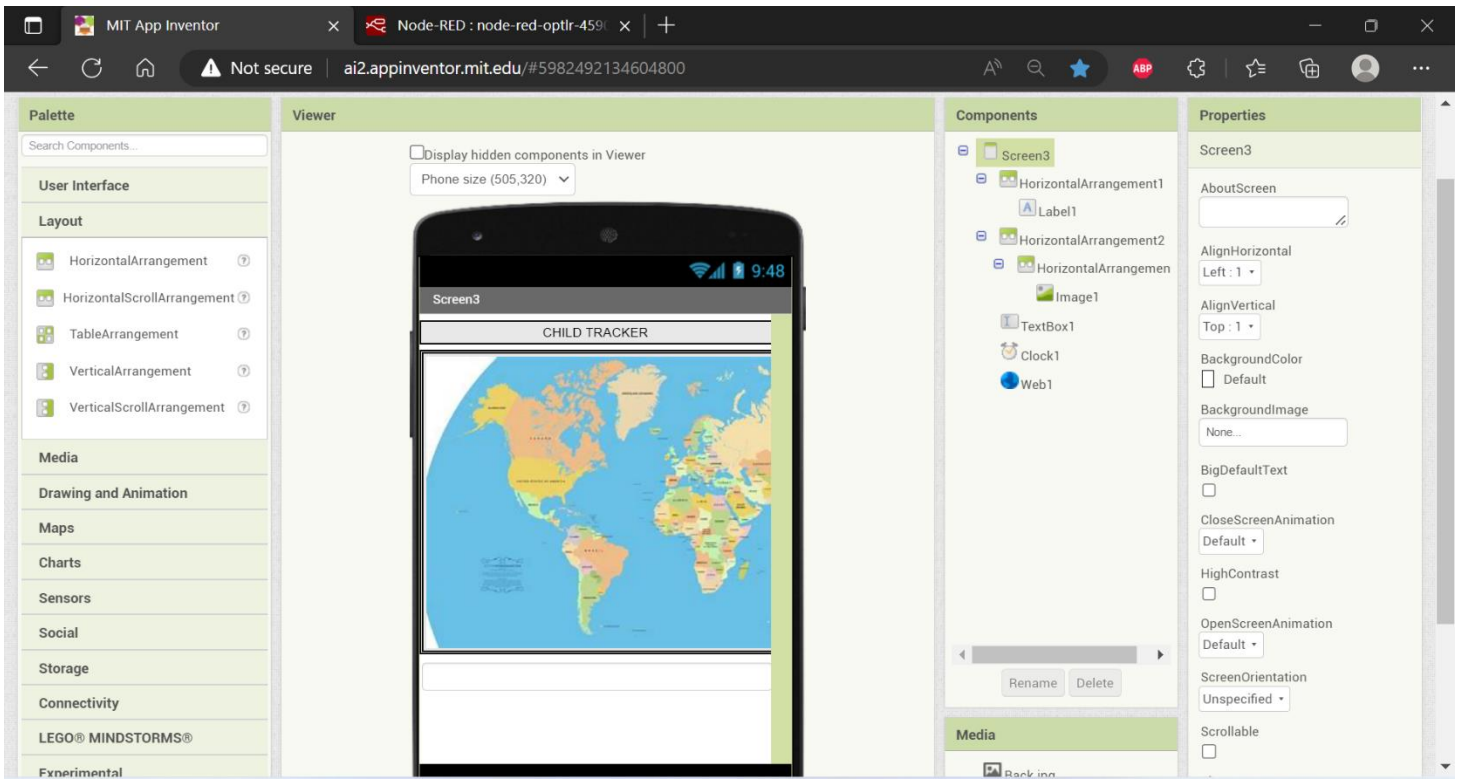
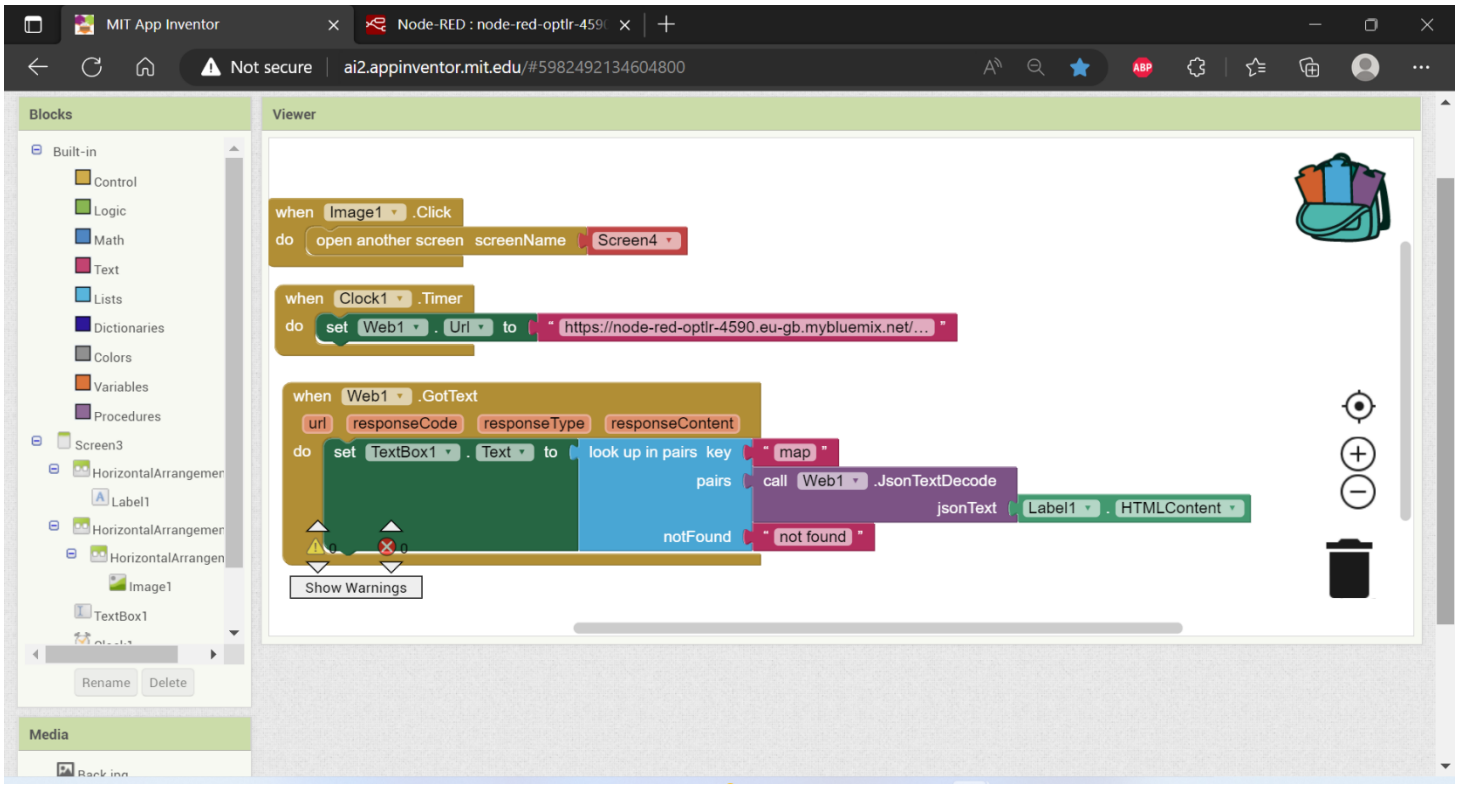
ai2.appinventor.mit.edu/#5982492134604800
Blocks
Built-in
Control
Logic
Math
Text
Lists
Dictionaries
Colors
Variables
Procedures
Screen2
HorizontalArrangemer
Image1
HorizontalArrangemer
Label1
TextBox1
HorizontalArrangemer
Rename
Delete
Media
Viewer
when Button1 .Click
do if TextBox1 . Text = " ABCD " and PasswordTextBox1 . Text = " 1234 "
then open another screen screenName Screen3
else call Notifier1 .ShowAlert
notice " CHECK YOUR CREDENTIALS "
0
0
Show Warnings


MIT App Inventor
Node-RED : node-red-optlr-459
Not secure
ai2.appinventor.mit.edu/#5982492134604800
Palette
Search Components...
User Interface
Layout
HorizontalArrangement
HorizontalScrollArrangement
TableArrangement
VerticalArrangement
VerticalScrollArrangement
Media
Drawing and Animation
Maps
Charts
Sensors
Social
Storage
Connectivity
LEGO® MINDSTORMS®
Experimental
Viewer
Display hidden components in Viewer
Phone size (505,320)
9:48
Screen3
CHILD TRACKER
Components
Screen3
HorizontalArrangement1
Label1
HorizontalArrangement2
HorizontalArrangemen
Image1
TextBox1
Clock1
Web1
Rename
Delete
Media
Properties
Screen3
AboutScreen
AlignHorizontal
Left : 1
AlignVertical
Top : 1
BackgroundColor
Default
BackgroundImage
None...
BigDefaultText
CloseScreenAnimation
Default
HighContrast
OpenScreenAnimation
Default
ScreenOrientation
Unspecified
Scrollable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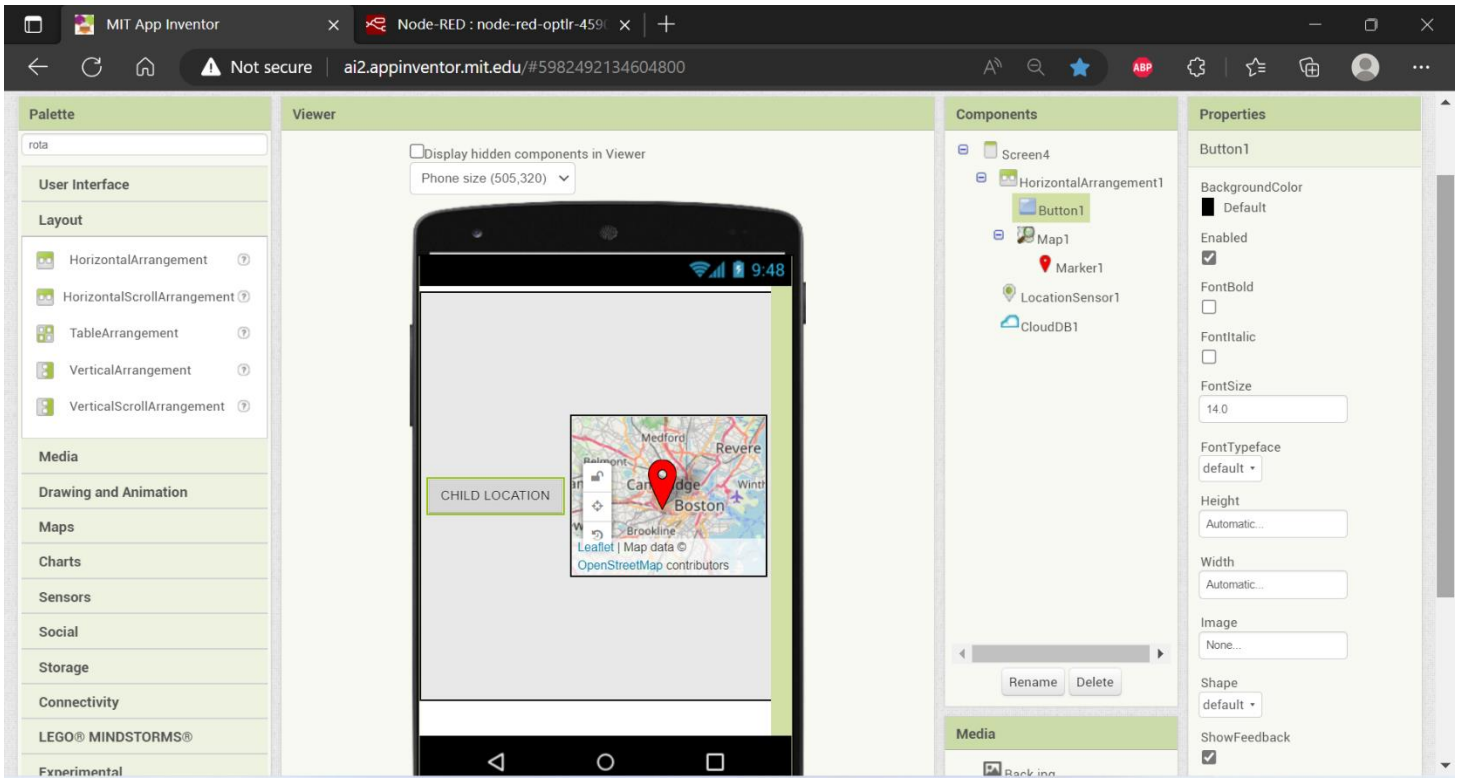
ai2.appinventor.mit.edu/#5982492134604800
Blocks
Built-in
Control
Logic
Math
Text
Lists
Dictionaries
Colors
Variables
Procedures
Screen3
Label1
TextBox1
Rename
Delete
Media
Viewer
when Image1 .Click
do open another screen screenName Screen4
when Clock1 .Timer
do set Web1 . Url to " https://node-red-optlr-4590.eu-gb.mybluemix.net/... "
when Web1 .GotText
url responseCode responseType responseContent
do set TextBox1 . Text to look up in pairs key " map "
pairs call Web1 .JsonTextDecode
jsonText Label1 . HTMLContent
notFound " not found "
Show Warnings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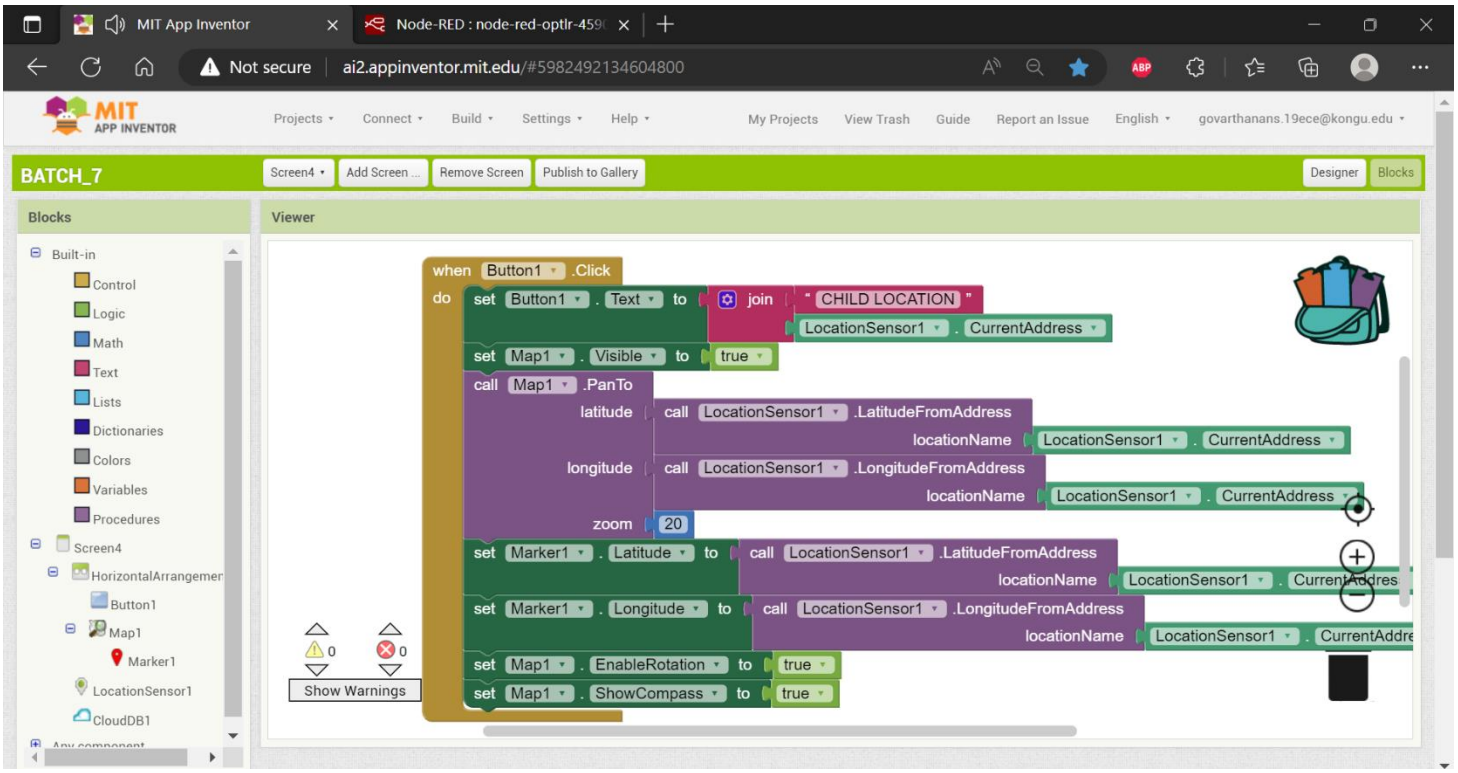
ai2.appinventor.mit.edu/#5982492134604800
Palette
rota
User Interface
Layout
HorizontalArrangement
HorizontalScrollArrangement
TableArrangement
VerticalArrangement
VerticalScrollArrangement
Media
Drawing and Animation
Maps
Charts
Sensors
Social
Storage
Connectivity
LEGO® MINDSTORMS®
Experimental
Viewer
Display hidden components in Viewer
Phone size (505,320)
9:48
CHILD LOCATION
Medford
Revere
Boston
Brookline
Leaflet | Map data ©
OpenStreetMap contributors
Components
Screen4
HorizontalArrangement1
Button1
Map1
Marker1
LocationSensor1
CloudDB1
Rename
Delete
Media
Properties
Button1
BackgroundColor
Default
Enabled
FontBold
FontItalic
FontSize
14.0
FontTypeface
default
Height
Automatic...
Width
Automatic...
Image
None...
Shape
default
ShowFeedback


MIT App Inventor
Node-RED : node-red-optlr-459
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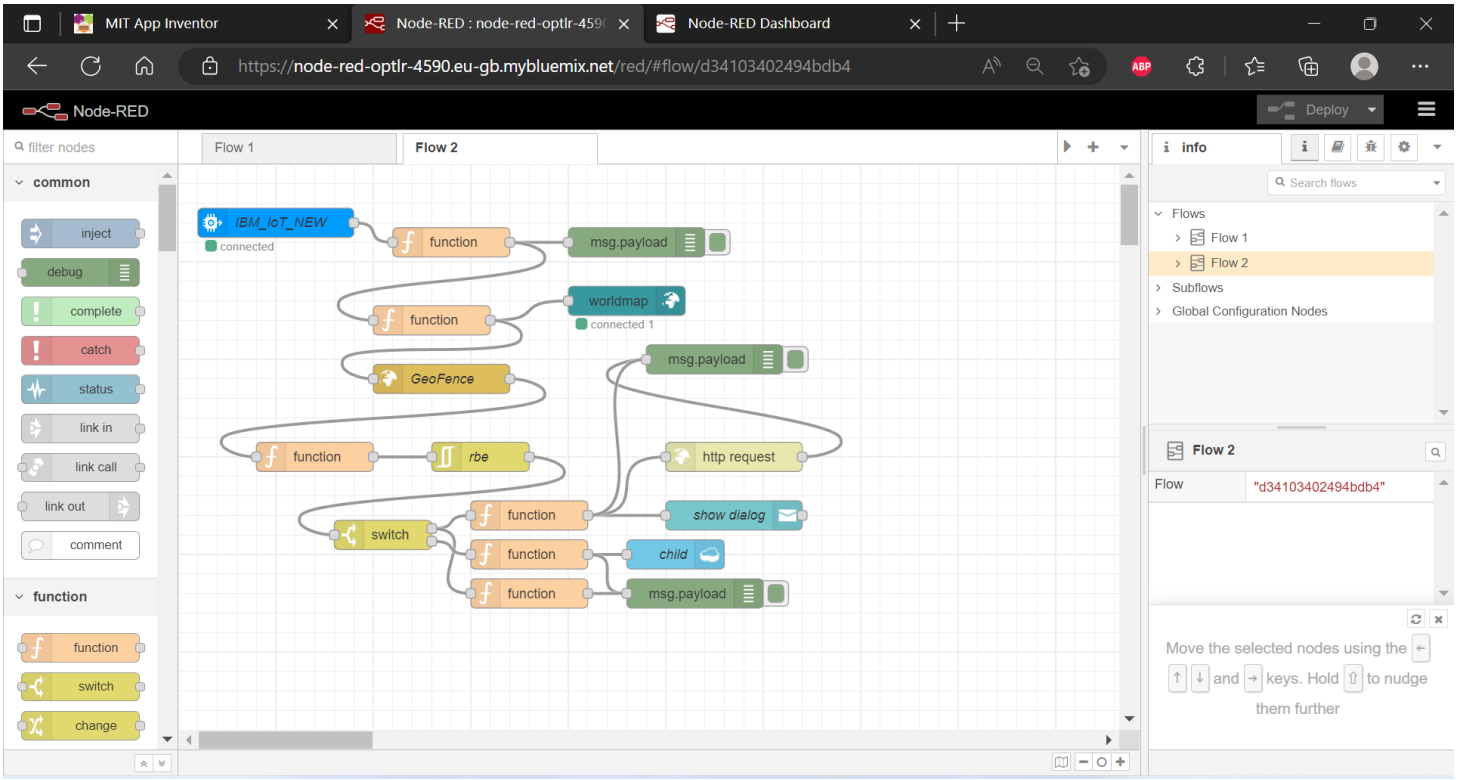
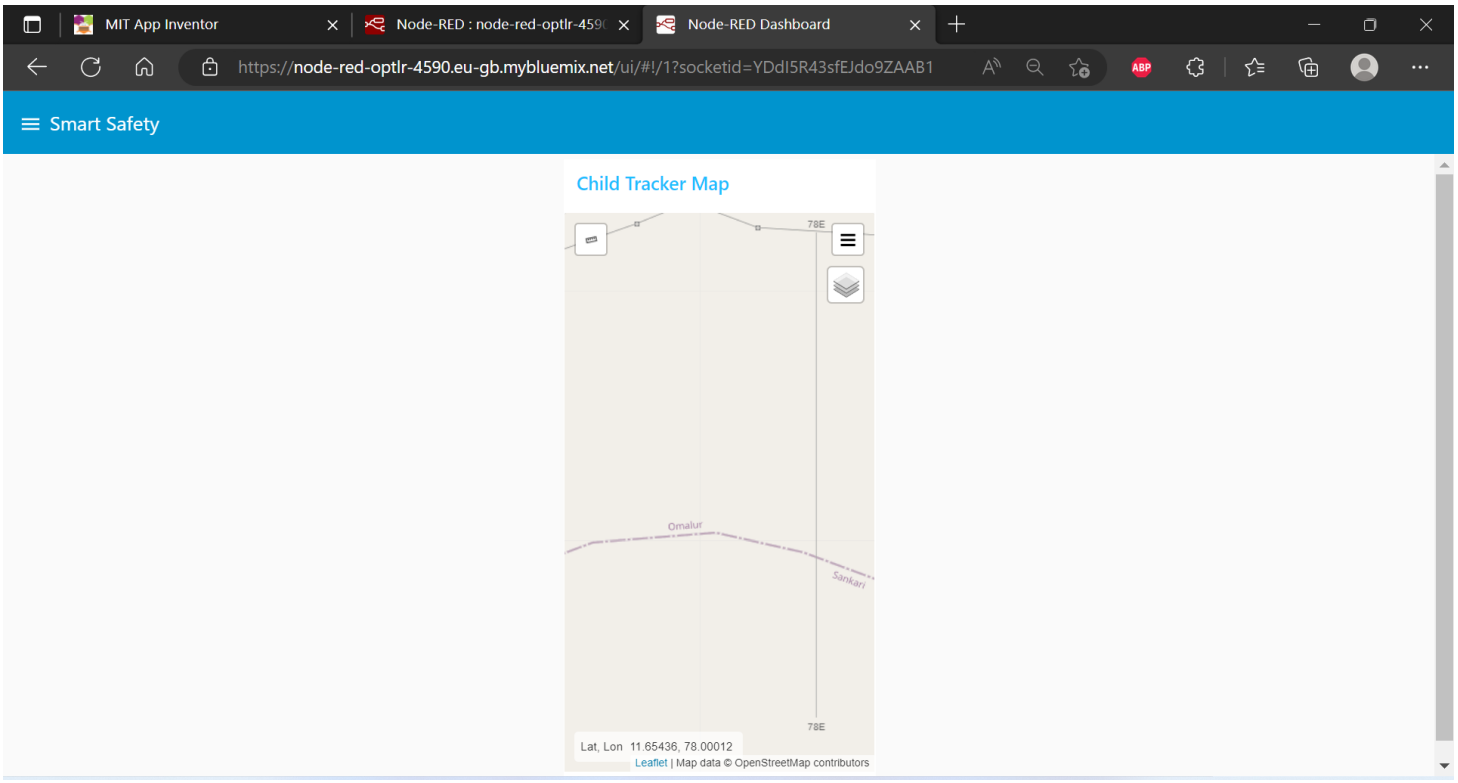
ai2.appinventor.mit.edu/#5982492134604800
MIT APP INVENTOR
Projects
Connect
Build
Settings
Help
My Projects
View Trash
Guide
Report an Issue
English
govarthanans.19ece@kongu.edu
BATCH_7
Screen4
Add Screen ...
Remove Screen
Publish to Gallery
Designer
Blocks
Blocks
Built-in
Control
Logic
Math
Text
Lists
Dictionaries
Colors
Variables
Procedures
Screen4
HorizontalArrangemer
Button1
Map1
Marker1
LocationSensor1
CloudDB1
Viewer
when Button1 .Click
do
set Button1 . Text to join " CHILD LOCATION "
LocationSensor1 . CurrentAddress
set Map1 . Visible to true
call Map1 .PanTo
latitude call LocationSensor1 .LatitudeFromAddress
locationName LocationSensor1 . CurrentAddress
longitude call LocationSensor1 .LongitudeFromAddress
locationName LocationSensor1 . CurrentAddress
zoom 20
set Marker1 . Latitude to call LocationSensor1 .LatitudeFromAddress
locationName LocationSensor1 . CurrentAddres
set Marker1 . Longitude to call LocationSensor1 .LongitudeFromAddress
locationName LocationSensor1 . CurrentAddre
set Map1 . EnableRotation to true
set Map1 . ShowCompass to true
0
0
Show Warnings


MIT App Inventor
Node-RED : node-red-optlr-459
Node-RED Dashboard
https://node-red-optlr-4590.eu-gb.mybluemix.net/red/#flow/d34103402494bdb4
Node-RED
Deploy
filter nodes
Flow 1
Flow 2
common
inject
debug
complete
catch
status
link in
link call
link out
comment
function
function
switch
change
IBM_IoT_NEW
connected
function
msg.payload
function
worldmap
connected 1
msg.payload
GeoFence
function
rbe
http request
function
show dialog
switch
function
child
function
msg.payload
info
Search flows
Flows
Flow 1
Flow 2
Subflows
Global Configuration Nodes
Flow 2
Flow
"d34103402494bdb4"
Move the selected nodes using the and keys. Hold to nudge them further



RESULT:

Hence, the Connection of Node-Red Service and MIT app With Web UI implemented successfully.