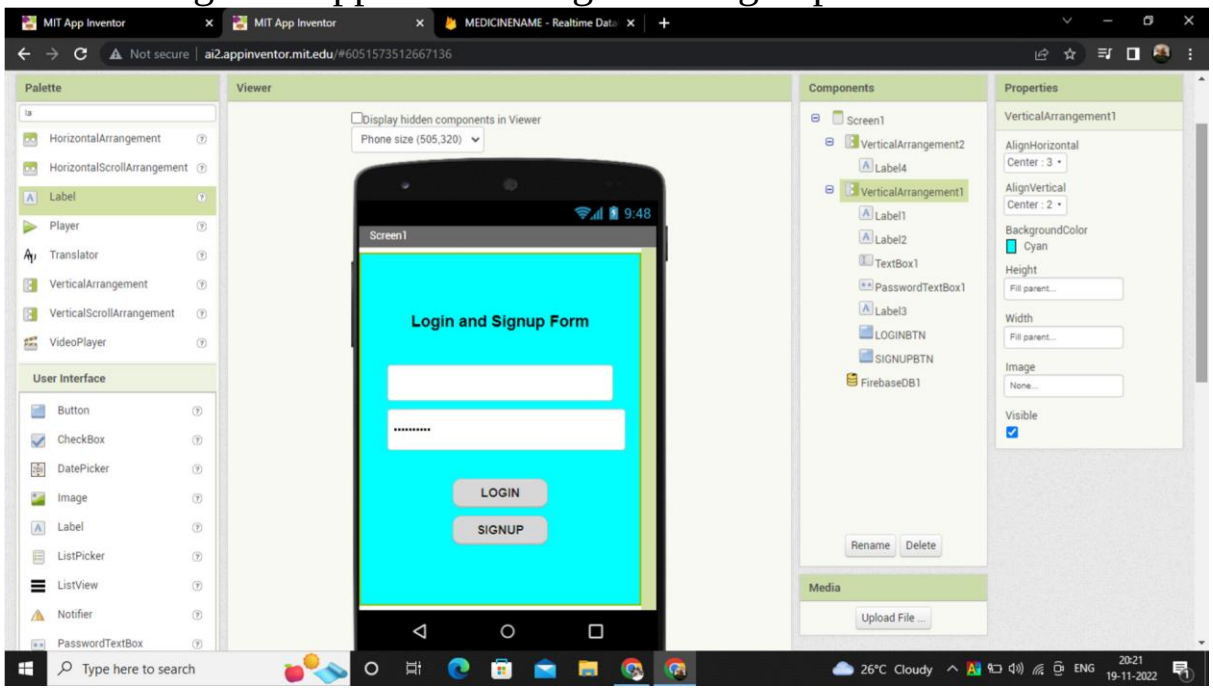
FINAL DELIVERABLES

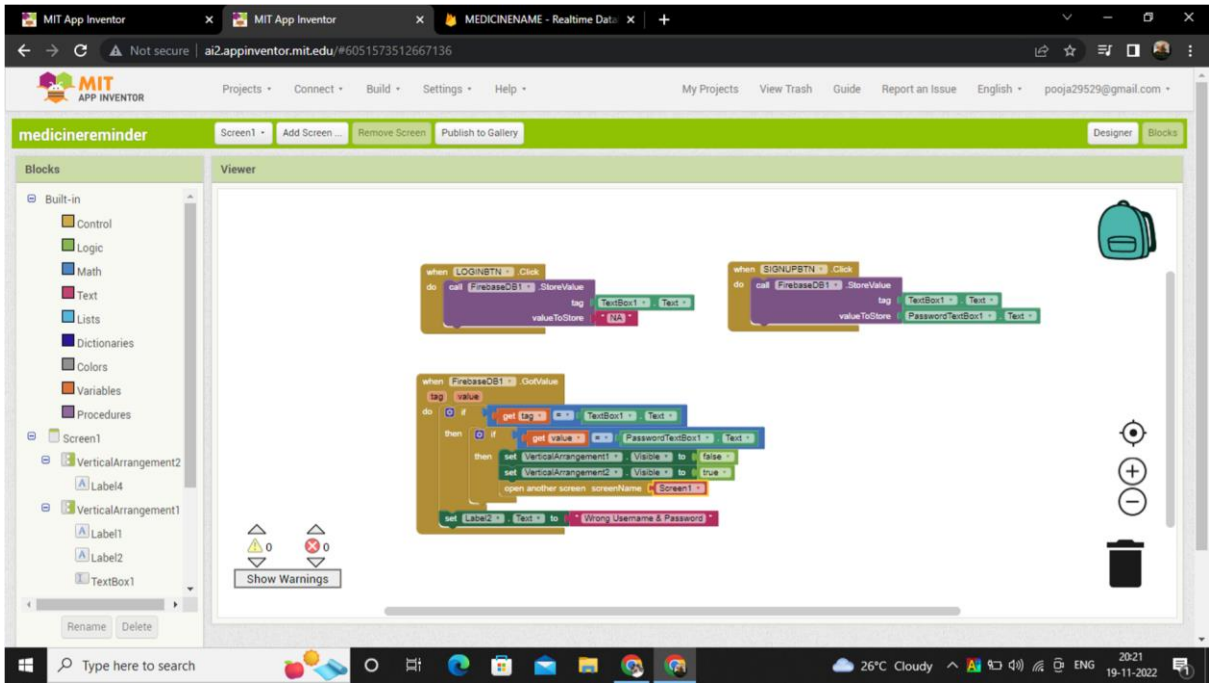
TEAM ID: PNT2022TIMID29810

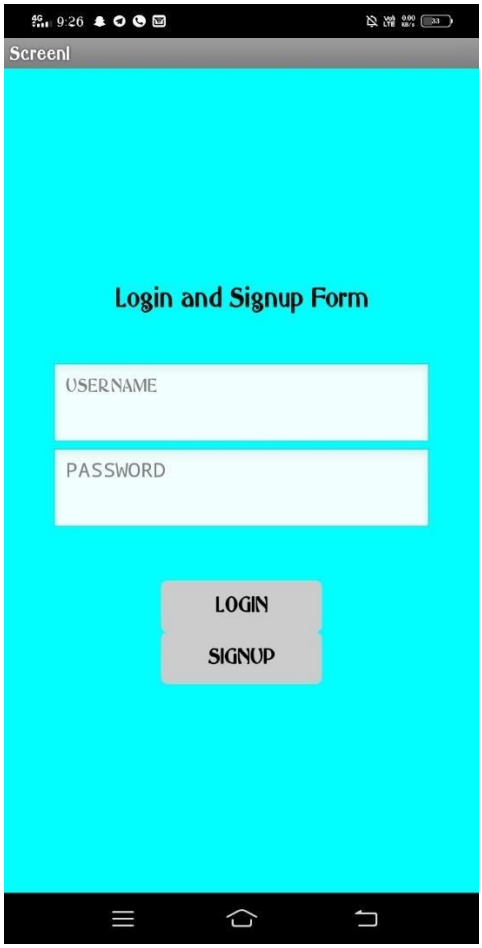
PROJECT NAME: PERSONAL ASSISTANCE FOR SENIORS WHO ARE SELF-RELIANT

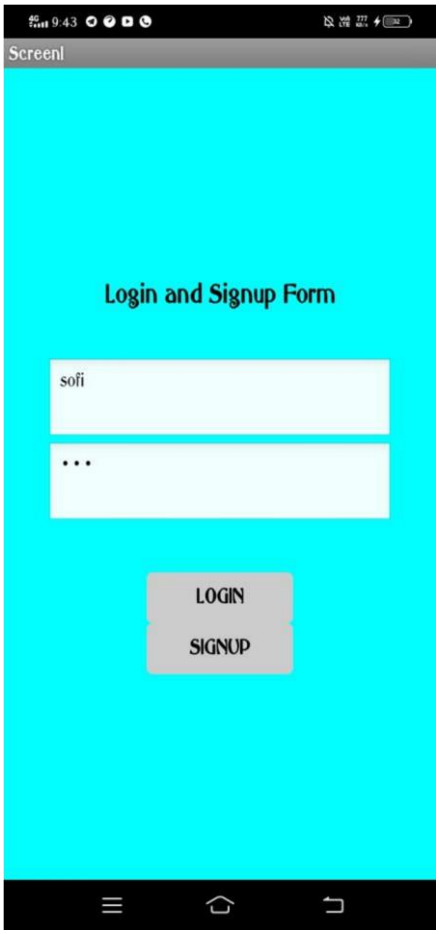
Using MIT app inventor login and sign up form is created



Blocks created

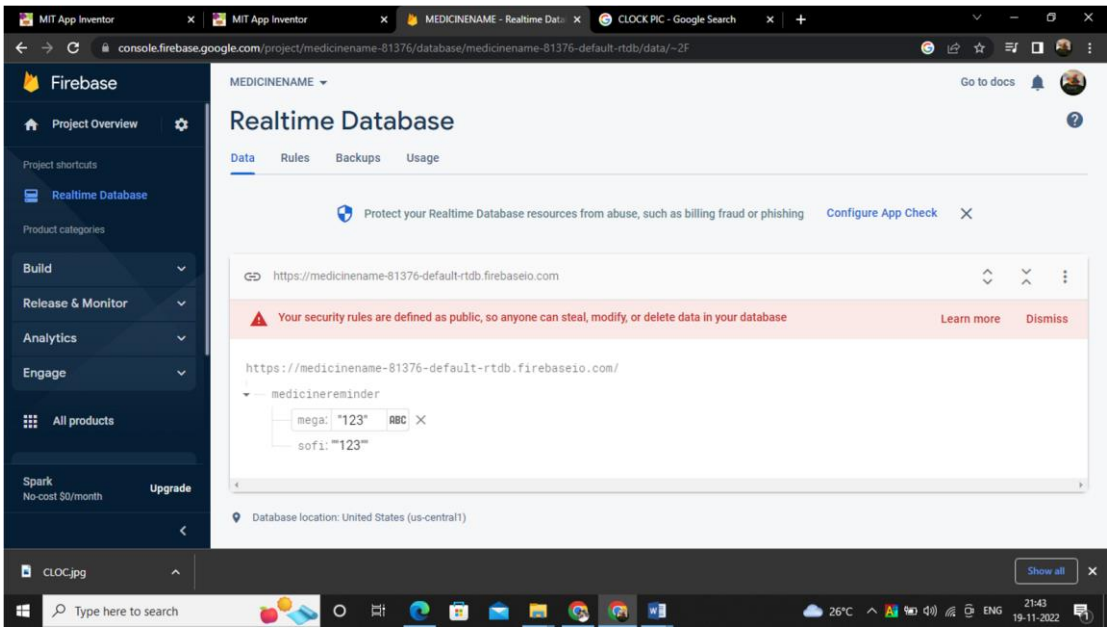




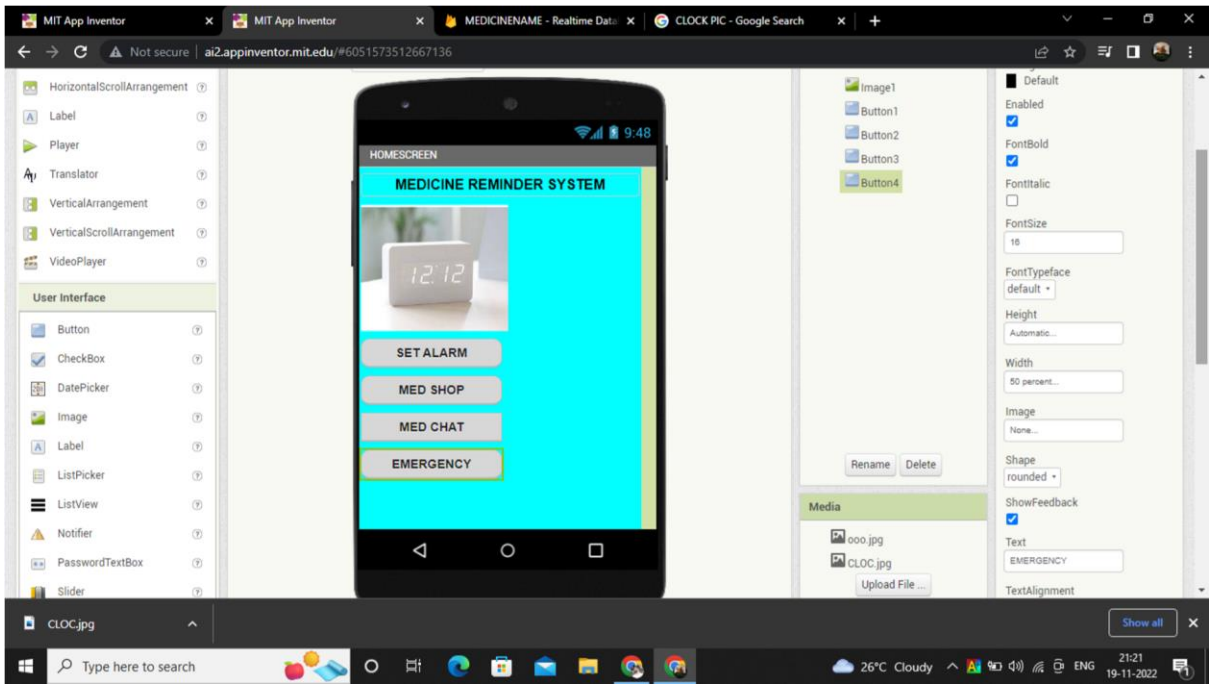


App login page is created

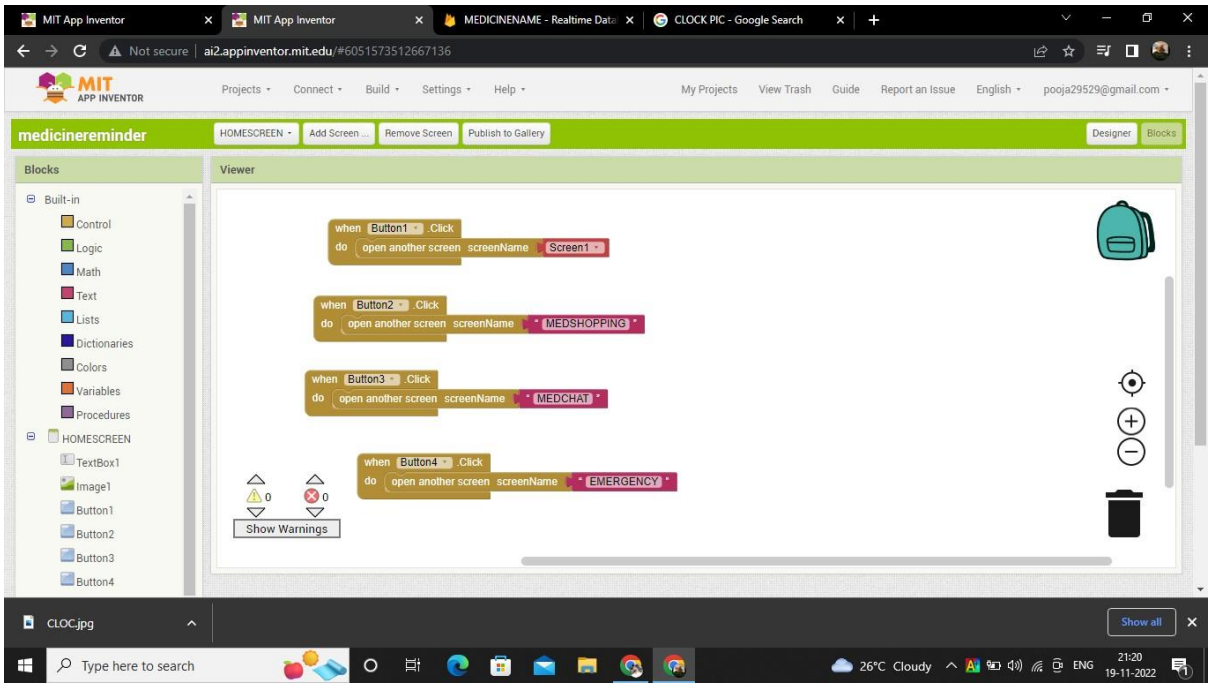
The details which we give in this page will automatically store it in the firbaase database.

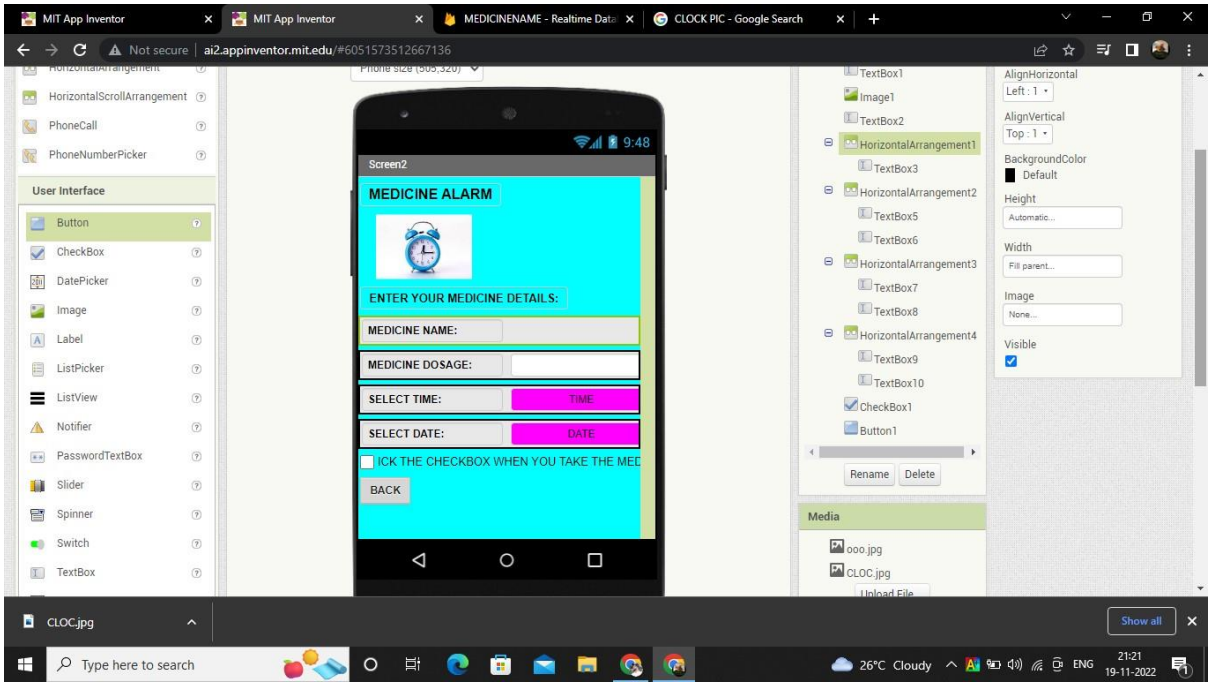


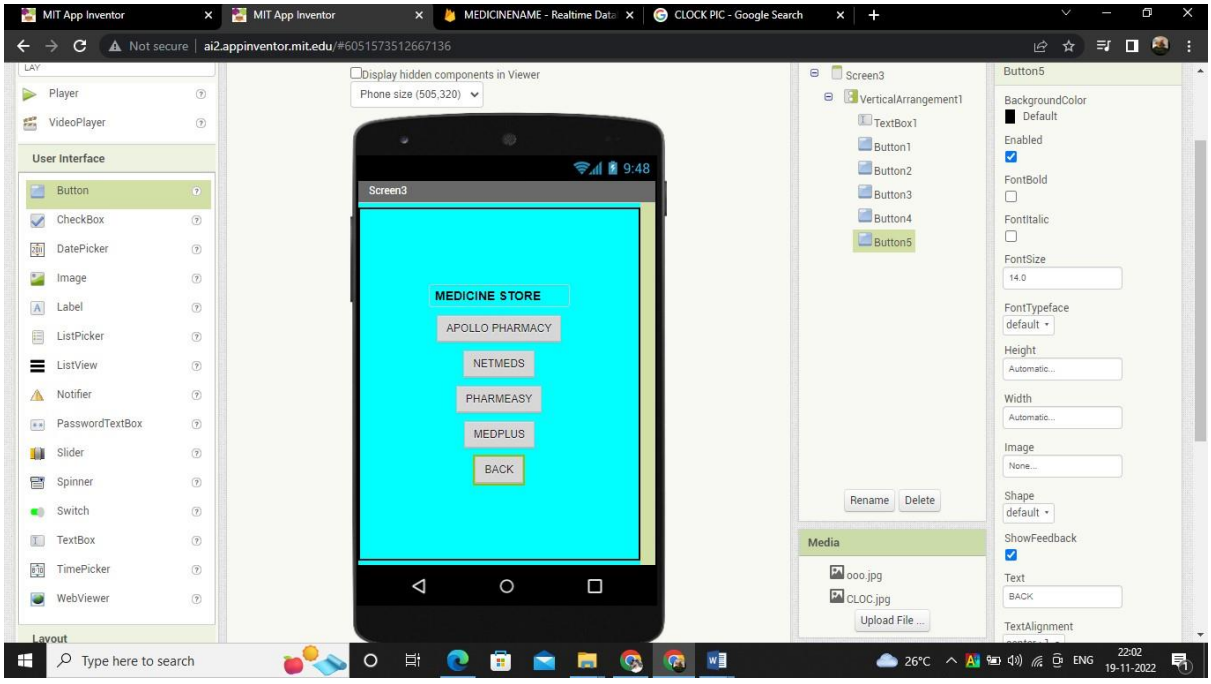
After successful login, user can be redirected to home screen.

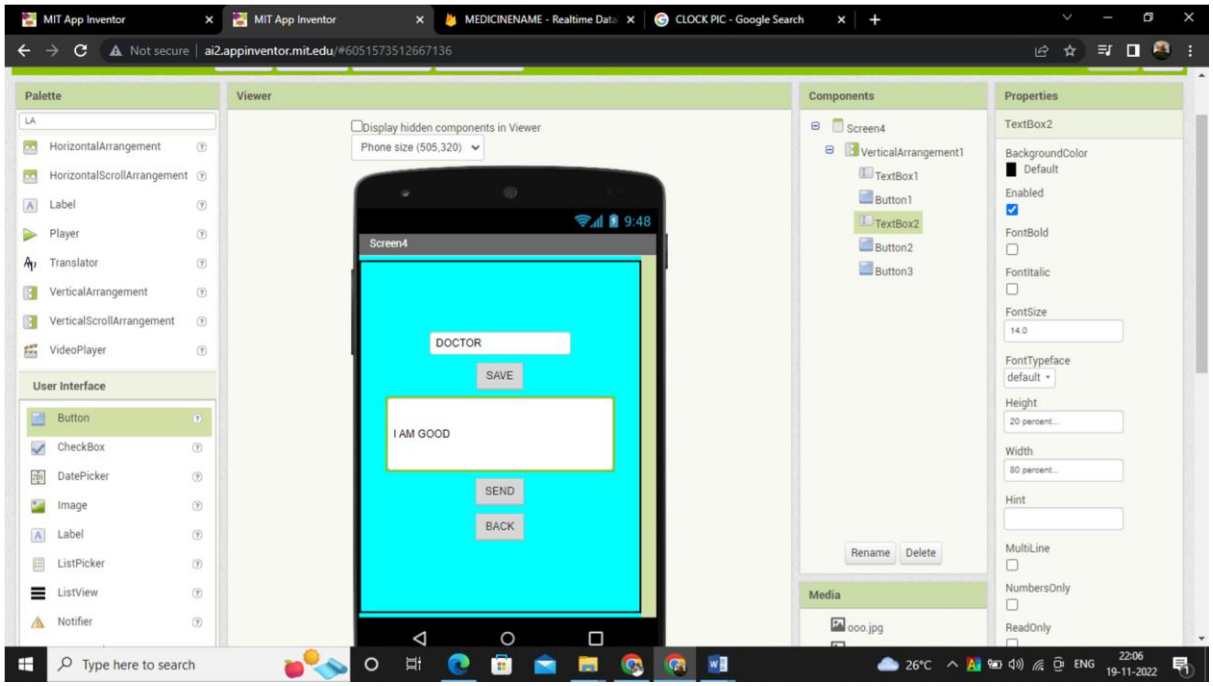


BLOCK CREATION




MIT App Inventor
MIT App Inventor
MEDICINENAME - Realtime Data
CLOCK PIC - Google Search
Not secure | ai2.appinvitor.mit.edu/#6051573512667136
HorizontalScrollArrangement
PhoneCall
PhoneNumberPicker
User Interface
Button
CheckBox
DatePicker
Image
Label
ListPicker
ListView
Notifier
PasswordTextBox
Slider
Spinner
Switch
TextBox
Screen2
MEDICINE ALARM
ENTER YOUR MEDICINE DETAILS:
MEDICINE NAME:
MEDICINE DOSAGE:
SELECT TIME:
TIME
SELECT DATE:
DATE
ICK THE CHECKBOX WHEN YOU TAKE THE MED
BACK
TextBox1
Image1
TextBox2
HorizontalArrangement1
TextBox3
HorizontalArrangement2
TextBox5
TextBox6
HorizontalArrangement3
TextBox7
TextBox8
HorizontalArrangement4
TextBox9
TextBox10
CheckBox1
Button1
Rename
Delete
Media
ooo.jpg
CLOC.jpg
AlignHorizontal
Left : 1
AlignVertical
Top : 1
BackgroundColor
Default
Height
Automatic...
Width
Fill parent...
Image
None...
Visible
CLOC.jpg
Show all
Type here to search
26°C Cloudy
ENG
21:21
19-11-2022


MIT App Inventor
MIT App Inventor
MEDICINENAME - Realtime Data
CLOCK PIC - Google Search
Not secure | ai2.appinvitor.mit.edu/#6051573512667136
Display hidden components in Viewer
Phone size (505,320)
Player
VideoPlayer
User Interface
Button
CheckBox
DatePicker
Image
Label
ListPicker
ListView
Notifier
PasswordTextBox
Slider
Spinner
Switch
TextBox
TimePicker
WebViewer
Layout
Screen3
MEDICINE STORE
APOLLO PHARMACY
NETMEDS
PHARMEASY
MEDPLUS
BACK
Screen3
VerticalArrangement1
TextBox1
Button1
Button2
Button3
Button4
Button5
Rename
Delete
Media
ooo.jpg
CLOC.jpg
Upload File ...
Button5
BackgroundColor
Default
Enabled
FontBold
FontItalic
FontSize
14.0
FontTypeface
default
Height
Automatic...
Width
Automatic...
Image
None...
Shape
default
ShowFeedback
Text
BACK
TextAlignment
Type here to search
26°C
ENG
22:02
19-11-2022


MIT App Inventor
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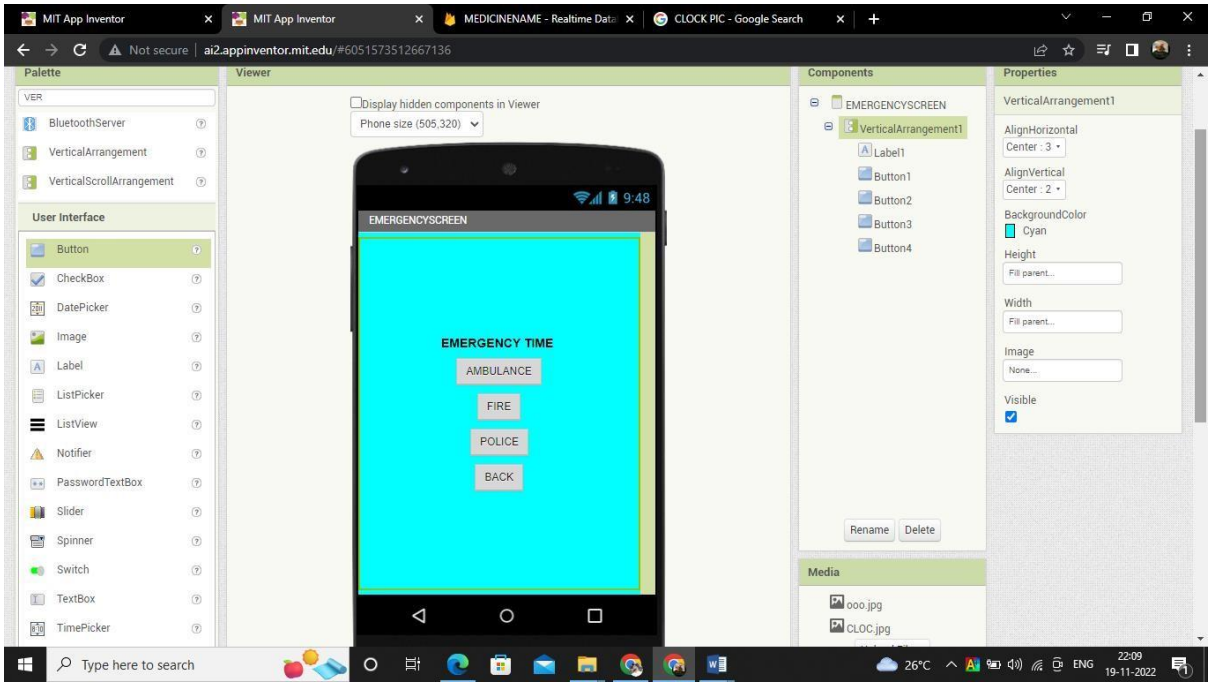
MEDICINENAME - Realtime Data
CLOCK PIC - Google Search
Not secure
ai2.appinventor.mit.edu/#6051573512667136
Palette
Viewer
Components
Properties
Display hidden components in Viewer
Phone size (505,320)
HorizontalArrangement
HorizontalScrollArrangement
Label
Player
Translator
VerticalArrangement
VerticalScrollArrangement
VideoPlayer
User Interface
Button
CheckBox
DatePicker
Image
Label
ListPicker
ListView
Notifier
Screen4
DOCTOR
SAVE
I AM GOOD
SEND
BACK
VerticalArrangement1
TextBox1
Button1
TextBox2
Button2
Button3
Rename
Delete
Media
ooo.jpg
TextBox2
BackgroundColor
Default
Enabled
FontBold
FontItalic
FontSize
14.0
FontTypeface
default
Height
20 percent...
Width
80 percent...
Hint
MultiLine
NumbersOnly
ReadOnly
Type here to search
26°C
ENG
22:06
19-11-2022


MIT App Inventor
MIT App Inventor
MEDICINENAME - Realtime Data
CLOCK PIC - Google Search
Not secure
ai2.appinventor.mit.edu/#6051573512667136
Palette
Viewer
Components
Properties
Display hidden components in Viewer
Phone size (505,320)
BluetoothServer
VerticalArrangement
VerticalScrollArrangement
User Interface
Button
CheckBox
DatePicker
Image
Label
ListPicker
ListView
Notifier
PasswordTextBox
Slider
Spinner
Switch
TextBox
TimePicker
EMERGENCYSCREEN
EMERGENCY TIME
AMBULANCE
FIRE
POLICE
BACK
VerticalArrangement1
Label1
Button1
Button2
Button3
Button4
Rename
Delete
Media
ooo.jpg
CLOC.jpg
AlignHorizontal
Center : 3
AlignVertical
Center : 2
BackgroundColor
Cyan
Height
Fill parent...
Width
Fill parent...
Image
None...
Visible
Type here to search
26°C
ENG
22:09
19-11-2022

CODE FOR SIMULATION

```
#include <WiFi.h>//library for wifi
#include <PubSubClient.h>//library for MQtt
#include <LiquidCrystal_I2C.h>
#include "DHT.h"// Library for dht11
#define DHTPIN 15     // what pin we're connected to
#define DHTTYPE DHT11   // define type of sensor DHT 11
#define LED 2
DHT dht (DHTPIN, DHTTYPE);// creating the instance by passing pin and typr of
dht connected
void callback(char* subscribetopic, byte* payload, unsigned int
payloadLength);


//-------credentials of IBM Accounts------

#define ORG "yxins0"//IBM ORGANITION ID
#define DEVICE_TYPE "b11m32deviceid"//Device type mentioned in ibm watson IOT
Platform
#define DEVICE_ID "123456"//Device ID mentioned in ibm watson IOT Platform
#define TOKEN "12345678"     //Token
String data3="";
int buzz= 13;

//-------- Customise the above values --------
char server[] = ORG ".messaging.internetofthings.ibmcloud.com";// Server Name
char publishTopic[] = "iot-2/evt/Data/fmt/json";// topic name and type of
event perform and format in which data to be send
char subscribetopic[] = "iot-2/cmd/command/fmt/String";// cmd  REPRESENT
command type AND COMMAND IS TEST OF FORMAT STRING
char authMethod[] = "token";// authentication method
char token[] = TOKEN;
char clientId[] = "d:" ORG ":" DEVICE_TYPE ":" DEVICE_ID;//client id
LiquidCrystal_I2C lcd(0x27,32,2);

//-----------------------------------------
WiFiClient wifiClient; // creating the instance for wificlient
PubSubClient client(server, 1883, callback ,wifiClient); //calling the
predefined client id by passing parameter like server id,portand
wificredential

void setup()// configureing the ESP32
{

  Serial.begin(115200);
  dht.begin();
  pinMode(buzz, OUTPUT);
  pinMode(LED,OUTPUT);
```

```
  delay(10);
  Serial.println();
  wificonnect();
  mqttconnect();
}

void loop()// Recursive Function
{
  if (!client.loop()) {
    mqttconnect();
  }

}



/*.....................................retrieving to
Cloud.............................*/

void PublishData(float temp, float humid) {
  mqttconnect();//function call for connecting to ibm

}
void mqttconnect() {
  if (!client.connected()) {
    Serial.print("Reconnecting client to ");
    Serial.println(server);
    while (!!!client.connect(clientId, authMethod, token)) {
      Serial.print(".");
      delay(500);
    }

     initManagedDevice();
     Serial.println();
  }
}
void wificonnect() //function definion for wificonnect
{
  Serial.println();
  Serial.print("Connecting to ");

  WiFi.begin("Wokwi-GUEST", "", 6);//passing the wifi credentials to establish
the connection
  while (WiFi.status() != WL_CONNECTED) {
    delay(500);
    Serial.print(".");
  }
  Serial.println("");
  Serial.println("WiFi connected");
```

```
  Serial.println("IP address: ");
  Serial.println(WiFi.localIP());
}

void initManagedDevice() {
  if (client.subscribe(subscribetopic)) {
    Serial.println((subscribetopic));
    Serial.println("subscribe to cmd OK");
  } else {
    Serial.println("subscribe to cmd FAILED");
  }
}

void callback(char* subscribetopic, byte* payload, unsigned int payloadLength)
{

  Serial.print("callback invoked for topic: ");
  Serial.println(subscribetopic);
  for (int i = 13; i < payloadLength-2; i++) {
    //Serial.print((char)payload[i]);
    data3 += (char)payload[i];
  }

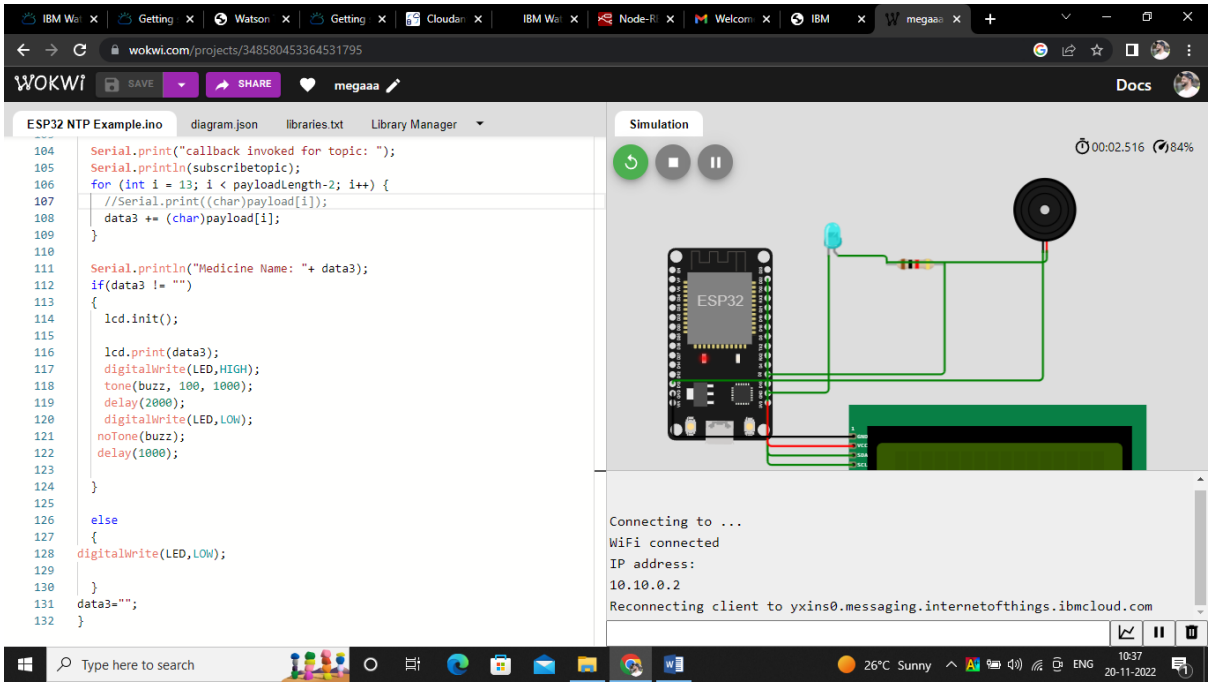
  Serial.println("Medicine Name: "+ data3);
  if(data3 != "")
  {
    lcd.init();

    lcd.print(data3);
    digitalWrite(LED,HIGH);
    tone(buzz, 100, 1000);
    delay(2000);
    digitalWrite(LED,LOW);
   noTone(buzz);
   delay(1000);

  }

  else
  {
digitalWrite(LED,LOW);

  }
data3="";
}
```

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    digitalWrite(LED,HIGH);
    tone(buzz, 100, 1000);
    delay(2000);
    digitalWrite(LED,LOW);
   noTone(buzz);
   delay(1000);

  }

  else
  {
digitalWrite(LED,LOW);

  }
data3="";
}
```