

```
/*
```

```
info@HecaWorld.com
```

```
https://hecaworld.com
```

```
(c) 2019
```

```
*/
```

```
#include <SoftwareSerial.h>
```

```
#include <ESP8266WiFi.h>
```

```
#include <Nextion.h>
```

```
#include <math.h>
```

```
String RequiredText;
```

```
//String TextFieldFile = "print TextField.txt";
```

```
String ssid;
```

```
String SSID1;
```

```
String Password1;
```

```
String SSIDTxt;
```

```
String PasswordTxt;
```

```
String Password;
```

```
int CurrentPage = 0;
```

```
String SSIDinput;
```

```
String PWinput;
```

```
String IpAddy;
```

```
SoftwareSerial nextion(4, 5); // Nextion TX to pin 2 and RX to pin 3 of Arduino
```

```
Nextion myNextion(nextion, 9600); //create a Nextion object named myNextion using the  
nextion serial port @ 9600bps
```

```
int ledPin = 16; // GPIO16
```

```
WiFiServer server(80);
```

```
void setup() {
```

```
  Serial.begin(9600);
```

```
  myNextion.init();
```

```
  delay(10);
```

```
  pinMode(ledPin, OUTPUT);
```

```
  digitalWrite(ledPin, LOW);
```

```
}
```

```
void loop() { //from another void loop
```

```
  // Check if a client has connected
```

```
WiFiinit(); //Setup the Wi-Fi Credentials
```

```
WiFiClient client = server.available();
```

```
if (!client) {
```

```
    return;
```

```
}
```

```
// Wait until the client sends some data
```

```
Serial.println("new client");
```

```
while(!client.available()){
```

```
    delay(1);
```

```
}
```

```
// Read the first line of the request
```

```
String request = client.readStringUntil('\r');
```

```
Serial.println(request);
```

```
client.flush();
```

```
// Match the request
```

```
int value = HIGH;
```

```
if (request.indexOf("/LED=ON") != -1) {
```

```
    digitalWrite(ledPin, LOW);
```

```
    value = LOW;
```

```
}
```

```
if (request.indexOf("/LED=OFF") != -1) {
```

```
    digitalWrite(ledPin, HIGH);
```

```
    value = HIGH;
```

```
}
```

```
// Set ledPin according to the request
```

```
//digitalWrite(ledPin, value);
```

```
// Return the response
```

```
client.println("HTTP/1.1 200 OK");
```

```
client.println("Content-Type: text/html");
```

```
client.println(""); // do not forget this one
```

```
client.println("<!DOCTYPE HTML>");
```

```
client.println("<html>");
```

```
client.print("<center>Led pin is now: </center>");
```

```
if(value == HIGH) {
```

```
    client.print("<center>Off</center>");
```

```
} else {
```

```
    client.print("<center>On</center>");
```

```
}
```

```
client.println("<br><br>");
client.println("<center><a href=\\\"/LED=ON\\\"><button style=\\\"FONT-SIZE: 30px; HEIGHT:
100px; WIDTH: 200px; Z-INDEX: 0; TOP: 200px;\\\">Turn On </button></a></center>");
client.println("<p><center><a href=\\\"/LED=OFF\\\"><button style=\\\"FONT-SIZE: 30px;
HEIGHT: 100px; WIDTH: 200px; Z-INDEX: 0; TOP: 200px;\\\">Turn Off </button></a><br
/></center></p>");
```

```
client.println("</html>");
```

```
delay(1);
Serial.println("Client disconnected");
Serial.println("");
```

```
}
```

```
/*Wi-Fi Setup is done here for the setup loop*/
```

```
void WiFiinit() {
```

```
  CurrentPage = 0; //This is the default/initial page
  String message = myNextion.listen(); //check for message
```

```
  // used for debugging purposed only.
  // uncomment to view every message that came through
  if(message != ""){
    Serial.println(message); //...print it out
  //   myNextion.sendCommand("get t2.txt");
```

```
  if(message == "65 0 6 1 ff ff ff"){
    myNextion.sendCommand("print t2.txt"); //Send this command to the Nextion display to
    print the content on the "enclosed field"
    delay(100); //Delay to allow time to execute command
    String message = myNextion.listen(); //check for a response from the Nextion Display
    and assign that response to a string named message1
    if(message != ""){
      SSID1 = message;
      Serial.println("SSID1` : " + SSID1);
      delay(50); //delay to execute command completely before loading next page
    }
  }
}
```

```
if(message == "65 0 4 1 ff ff ff"){
```

```

    myNextion.sendCommand("print t3.txt"); //Send this command to the Nextion display to
print the content on the "enclosed field"
    delay(100); //Delay to allow time to execute command
    String message = myNextion.listen(); //check for a response from the Nextion Display
and assign that response to a string named message1
    if(message != ""){
        Password1 = message;
        Serial.println("PASSWORD1: " + Password1);
//    myNextion.sendCommand("page 2"); //When the new message is received, go to the
first page (or load any page of choice)

}
}
}

if(message == "65 0 2 0 ff ff ff"){ // if a message is received...
myNextion.sendCommand("page 1"); //load the next page
}

```

CurrentPage = 1;

```

if(message == "65 1 4 0 ff ff ff"){ // if a message is received...
    Serial.println(message); //...print it out
    myNextion.sendCommand("page 0");

}

```

CurrentPage = 1;

```

if(message == "65 0 6 1 ff ff ff if"){ // 65 1 3 0 ff ff ff if this particular message is received...
    myNextion.sendCommand("print t2.txt"); //Send this command to the Nextion display to
print the content on the "enclosed field"
    delay(100); //Delay to allow time to execute command
    String message = myNextion.listen(); //check for a response from the Nextion Display
and assign that response to a string named message1
    if(message != ""){
        ssid = message;
        Serial.println("SSID: " + ssid);
        delay(50); //delay to execute command completely before loading next page
        myNextion.sendCommand("page 2"); //When the new message is received, go to the
first page (or load any page of choice)
    }
}
}

```

```
CurrentPage = 2;
```

```
if(message == "65 2 4 0 ff ff ff"){ // if a message is received...  
  Serial.println(message); //...print it out  
  myNextion.sendCommand("page 1");  
}
```

```
CurrentPage = 2;
```

```
if(message == "65 0 4 1 ff ff ff"){ //65 2 3 0 ff ff ff if this particular message is received...  
  myNextion.sendCommand("print t3.txt"); //Send this command to the Nextion display to  
  print the content on the "enclosed field"  
  delay(100); //Delay to allow time to execute command  
  String message = myNextion.listen(); //check for a response from the Nextion Display  
  and assign that response to a string named message1  
  if(message != ""){  
    Password = message;  
    Serial.println("PASSWORD`: " + Password);
```

```
// WiFi.begin(ssid, Password); //start the Wi-Fi connection after setting up the credentials  
WiFi.begin(SSID1, Password1);
```

```
//=====
```

```
===  
while (WiFi.status() != WL_CONNECTED) {  
  delay(500);
```

```
// WiFiinit(); //Setup the Wi-Fi Credentials
```

```
// WiFi.begin(ssid, Password);
```

```
Serial.print("Connecting: ");  
// Serial.println(ssid);  
Serial.println(SSID1);  
}
```

```
// myNextion.sendCommand("page 0"); //When the new message is received, go to the first  
page (or load any page of choice)
```

```
//=====
```

```
Serial.println("");  
Serial.println("WiFi connected");
```

```

// Start the server
server.begin();
Serial.println("Server started");

// Print the IP address
Serial.print("Use this URL to connect: ");
Serial.print("http://");
Serial.print(WiFi.localIP());
Serial.println("/");

String url = ("Server started at http://" + WiFi.localIP().toString() + "/");
Serial.println(url);
// myNextion.setTextComponent("g0", url);
// myNextion.setTextComponent("t4", url);

//=====
===
myNextion.sendCommand("page 0"); //return to specified page i.e., page0 after connecting
the Wi-Fi

//=====
===
delay(500);
// myNextion.setTextComponent("IPTxt", String("Connect with: http:// " + WiFi.localIP()));
myNextion.setTextComponent("IPTxt", url);
myNextion.setTextComponent("g0", url);
myNextion.setTextComponent("b0", "Connected");
myNextion.setTextComponent("t4", "Connected to: " + SSID1);
delay(100);

//=====

if(message == "65 1 4 0 ff ff ff"){ // if a message is received...
  Serial.println(message); //...print it out
  myNextion.sendCommand("page 0");

  }
  }
  }
}

```