يونس خميس  
Create esp32 code and connection for  
  
-the esp32 is access point  
-show distance measured form jsn-sr04t in nice html and css web page  
-give me the connection for jsn-sr04t  
-display the distance in previous mentioned LCD  
  
Here is a sample code that should work for your requirements. Make sure you have the necessary libraries installed and that your ESP32 and sensor are connected properly.  
  
scss  
Copy code  
#include <WiFi.h>  
#include <WebServer.h>  
#include <Adafruit\_ILI[9225](tel:9225).h>  
  
// Replace with your network credentials  
const char\* ssid = "Your\_SSID";  
const char\* password = "Your\_PASSWORD";  
  
WebServer server(80);  
  
// Define LCD pins  
#define TFT\_CS 15  
#define TFT\_RST -1  
#define TFT\_DC 2  
#define TFT\_MOSI 23  
#define TFT\_CLK 18  
  
Adafruit\_ILI[9225](tel:9225) tft = Adafruit\_ILI[9225](tel:9225)(TFT\_CS, TFT\_DC, TFT\_RST);  
  
// Define sensor pins  
#define TRIGGER\_PIN 13  
#define ECHO\_PIN 12  
  
void setup() {  
  [Serial.begin](http://Serial.begin)([115200](tel:115200));  
  
  // Initialize LCD  
  [tft.begin](http://tft.begin)();  
  [tft.setRotation](http://tft.setRotation)(1);  
  
  // Initialize sensor  
  pinMode(TRIGGER\_PIN, OUTPUT);  
  pinMode(ECHO\_PIN, INPUT);  
  
  // Connect to Wi-Fi network  
  [WiFi.mode](http://WiFi.mode)(WIFI\_AP);  
  [WiFi.softAP](http://WiFi.softAP)(ssid, password);  
  
  // Print ESP32 IP address  
  [Serial.println](http://Serial.println)("");  
  [Serial.println](http://Serial.println)("WiFi connected");  
  [Serial.print](http://Serial.print)("AP IP address: ");  
  [Serial.println](http://Serial.println)([WiFi.softAPIP](http://WiFi.softAPIP)());  
  
  // Handle root URL  
  [server.on](http://server.on)("/", [](){  
    // Trigger sensor and measure distance  
    digitalWrite(TRIGGER\_PIN, LOW);  
    delayMicroseconds(2);  
    digitalWrite(TRIGGER\_PIN, HIGH);  
    delayMicroseconds(10);  
    digitalWrite(TRIGGER\_PIN, LOW);  
    float duration = pulseIn(ECHO\_PIN, HIGH);  
    float distance = duration \* [0.034](tel:0.034) / 2;  
  
    // Display distance on LCD  
    [tft.fillScreen](http://tft.fillScreen)(ILI[9225](tel:9225)\_WHITE);  
    [tft.setCursor](http://tft.setCursor)(50, 50);  
    [tft.setTextColor](http://tft.setTextColor)(ILI[9225](tel:9225)\_BLACK);  
    [tft.setTextSize](http://tft.setTextSize)(2);  
    [tft.println](http://tft.println)(String(distance) + " cm");  
  
    // Send distance to web page  
    String html = "<!DOCTYPE html><html><head><meta name='viewport' content='width=device-width, initial-scale=[1.0](tel:1.0)'><style>body { font-family: Arial, sans-serif; margin: 0; } h1 { text-align: center; margin-top: 50px; } p { text-align: center; font-size: 30px; margin-top: 50px; }</style></head><body><h1>Distance Measurement</h1><p>";  
    html += String(distance);  
    html += " cm</p></body></html>";  
    [server.send](http://server.send)([200](tel:200), "text/html", html);  
  });  
  
  // Start server  
  [server.begin](http://server.begin)();  
  [Serial.println](http://Serial.println)("Server started");  
}  
  
void loop() {  
  [server.handleClient](http://server.handleClient)();  
}  
For the connections, you will need to connect the following:  
  
For the JSN-SR04T sensor:  
  
VCC to 5V  
GND to GND  
TRIGGER to Pin 13  
ECHO to Pin 12  
For the ILI[9225](tel:9225) LCD:  
  
CS to Pin 15  
RST to -1 (not connected)  
DC to Pin 2  
MOSI to Pin 23  
CLK to Pin 18  
Please note that the connections may vary depending on the specific models of your components. Be sure to double-check the pinout diagrams for your specific models before making any connections.