```
#include <WiFi.h>
#include "DFRobotDFPlayerMini.h"
#include "SoftwareSerial.h"

//speaker pin connection
static const uint8_t PIN_MP3_RX = D1;
static const uint8_t PIN_MP3_TX = D0;
SoftwareSerial softwareSerial(PIN_MP3_RX, PIN_MP3_TX);

const char *ssid = "MAKERSPACE";
const char *password = "12345678";

WiFiServer server(80);
DFRobotDFPlayerMini player;

void setup() {
  Serial.begin(115200);
  mySerial.begin(9600, SERIAL_8N1, PIN_MP3_RX, PIN_MP3_TX); // Init DFPlayer
serial on custom pins

  pinMode(RX, INPUT);
  pinMode(TX, OUTPUT);

  Serial.println("Connecting to WiFi...");
  WiFi.begin(ssid, password);

  while (WiFi.status() != WL_CONNECTED) {
    delay(500);
    Serial.print(".");
  }

  Serial.println("\nWiFi connected.");
  Serial.println("IP Address: ");
  Serial.println(WiFi.localIP());

  server.begin();

  if (!myDFPlayer.begin(mySerial)) {
    Serial.println("DFPlayer Mini not found!");
    while (true);
  }
  Serial.println("DFPlayer Mini online.");

  myDFPlayer.volume(30);  // Set volume level (0 to 30)
}

void loop() {
  WiFiClient client = server.available();
  if (client) {
```

```
    Serial.println("New Client.");
    String currentLine = "";

    while (client.connected()) {
      if (client.available()) {
        char c = client.read();
        currentLine += c;

        if (c == '\n') {
          if (currentLine.length() == 0) break;

          // Respond with webpage
          client.println("HTTP/1.1 200 OK");
          client.println("Content-type:text/html");
          client.println();
          client.println("<html><body><h1>DFPlayer Control</h1>");
          client.println("<button
onclick=\"location.href='/play'\">Play</button>");
          client.println("<button
onclick=\"location.href='/stop'\">Stop</button>");
          client.println("</body></html>");
          client.println();
          break;
        }
      }
    }

    if (currentLine.indexOf("GET /play") >= 0) {
      myDFPlayer.play(1);  // Play track 1
      Serial.println("Play command sent.");
    } else if (currentLine.indexOf("GET /stop") >= 0) {
      myDFPlayer.stop();
      Serial.println("Stop command sent.");
    }

    client.stop();
    Serial.println("Client Disconnected.");
  }
}
```