Redireccionament



Processadors Digitals Projecte Final Ona Bonastre Martí Dídac Bassas

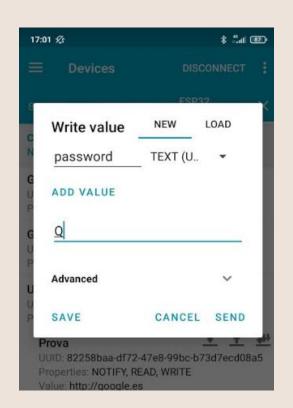
Client



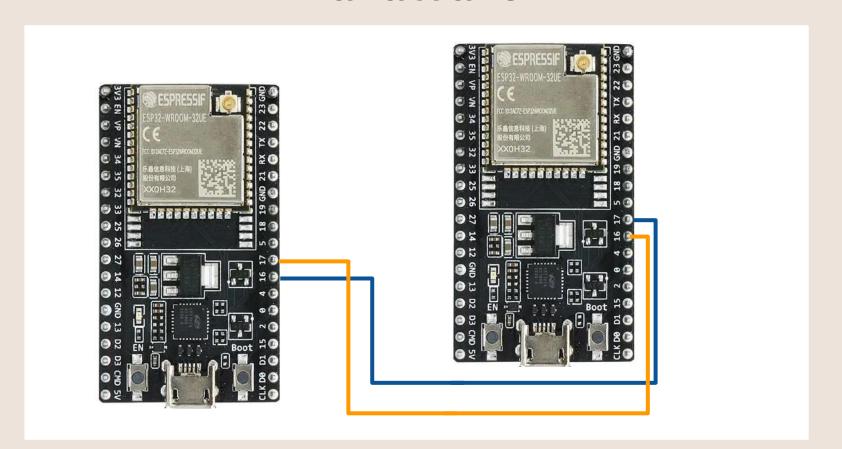
Rector



nrf Connect



Hardware

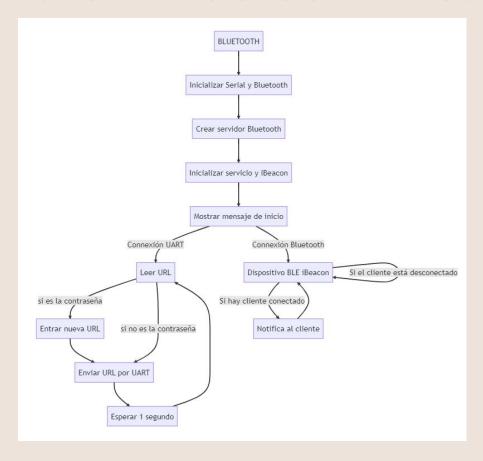


```
void setup() {
 Serial.begin(115200);
 Serial.println();
 Serial.println("Initializing...");
 Serial.flush();
//serial 2
 Serial2.begin(9600, SERIAL 8N1, 17, 16);
 BLEDevice::init(DEVICE_NAME);
 pServer = BLEDevice::createServer();
 pServer->setCallbacks(new MyServerCallbacks());
 init service();
 init_beacon();
 Serial.println("iBeacon + service defined and advertising!");
```

```
void onWrite(BLECharacteristic *pCharacteristic)
 std::string tmp;
 tmp=pCharacteristic->getValue();
 if (mode_set_url) {
   mode set url=false;
   stURL=tmp;
   Serial.print("Saved URL: ");
   Serial.println(stURL.c_str());
 else
   if (tmp=="password") {
       mode set url=true;
       Serial.println("Waiting URL to save...");
```

```
void onRead(BLECharacteristic *pCharacteristic) {
   pCharacteristic->setValue(stURL);
   pCharacteristic->notify();
}
```

```
void loop() {
    delay(2000);
    Serial2.write(stURL.c_str()); //mensaje
    Serial2.write(0); //fin mensaje
}
```



```
#include <Arduino.h>
#include <WiFi.h>
#include <WebServer.h>
```

```
std::string stURL="http://google.es";
const char* ssid = "********";
const char* password = "*******";
WebServer server(80);
```

```
void handle_root();

void read_url_task(void * parameter);

extern String head;
extern String tail;
```

```
Serial2.begin(9600, SERIAL_8N1, 17, 16);
xTaskCreate(
   read_url_task,
   "read_url_task",
   1000,
   NULL,
   1,
   NULL
);
```

```
WiFi.begin(ssid, password);
while (WiFi.status() != WL_CONNECTED) {
    delay(500);
    Serial.print(".");
Serial.println("");
Serial.println("WiFi connected.");
Serial.println("IP address: ");
Serial.println(WiFi.localIP());
server.begin();
server.on("/", handle_root);
```

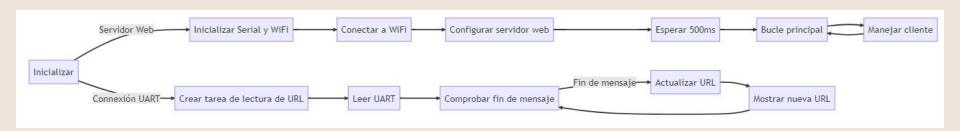
```
void read url task(void * parameter) {
 char dato;
 std::string stTMP="";
 while (1) {
   while (Serial2.available() > 0){
       dato=Serial2.read();
       if (dato==0) { //fin mensaje
         if (stTMP!=stURL) {
           Serial.print("New URL: ");
           Serial.println(stTMP.c str());
           stURL=stTMP;
         stTMP="";
        else { //mensaje
         stTMP=stTMP+dato;
   delay(500);
```

```
void handle_root() {
   String html;

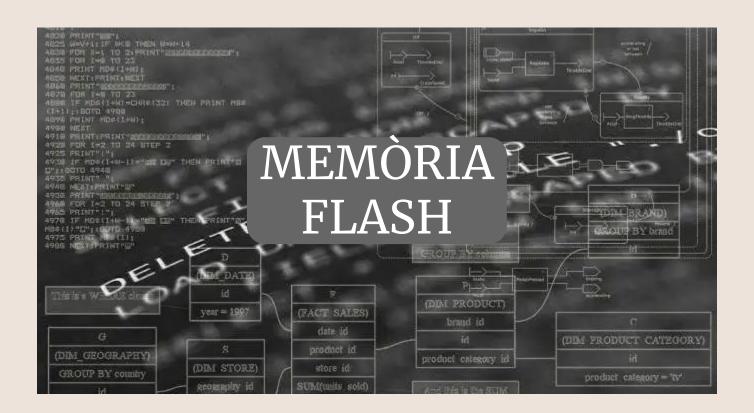
html=head+stURL.c_str()+tail;

server.send(200, "text/html", html);
}
```

```
void loop() {
   server.handleClient();
}
```



Problemes



Demostració



Si no funciona, prem aquí

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