

```

#include <Arduino.h>
#include "ESP8266WiFi.h"
#include <ESP8266HTTPClient.h>
#include <SoftwareSerial.h> // SoftwareSerial must be included because the library depends on it

/* projet Smartpoker
version :6.4
date : 02/06/2019
versoin 6.5
date : 23/06/2018
*****
Necessite :smartpoker-MEGA-V6.9_TFT_4 ou superieur pour fonctionner
*****

redacteur : slatkin
website : smartpoker.jimbdo.com/esp8266/Arduino
smartpoker.fr
this programm allow to a ESP01s to connect to a AP, and send the information (2 RFID reader or
Keypad) to the website smartpoker.fr
Trame HTTP envoyé au serveur :
http://smartpoker.livehost.fr/smartpoker/website/admin/srv/srv.php?
D=1&Em=Macaddress&Tag=xxxxxx

version :6.5
date : 09/06/2019

*/

//programme
String version_prog="version 6.5";
String date_maj="23/06/2019";
String message_editeur="Necessite :smartpoker-MEGA-V6.9_TFT_4 ou superieur pour
fonctionner";

//WiFi
const char* ssid = "xxxxxx";
const char* password = "xxxxxx";
const char* host = "smartpoker.livehost.fr";
//unsigned long delaiwatchdog = 300000; // Fréquence du watchdog - Watchdog frequency
unsigned long delaiwatchdog = 1800000; // Fréquence du watchdog - Watchdog frequency-
toutes les minutes pour les tests
unsigned long current;
unsigned long previous;
String mac_address="";

int port=80;
HTTPClient http;
String payload="";
int ret=0; // recherche d'une sous chaine dans Payload
int cas=0;

```

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/**Gestion des echanges avec l'arduino **/
char inChar;
String inputstring = ""; // a String to hold incoming data
bool stringComplete = false; // whether the string is complete
String cmdtoarduino="";
char buffer[30];

void setup()
{
  //Serial.begin(115200);
  Serial.begin(9600);
  Serial.println("Programme : ");
  Serial.println(version_prog);
  Serial.println(date_maj);
  Serial.println(message_editeur);
  Serial.println("debut de l'init Wifi");
  //connexion au reseau WiFi
  // Set WiFi to station mode and disconnect from an AP if it was previously connected
  /* Explicitly set the ESP8266 to be a WiFi-client, otherwise, it by default,
   would try to act as both a client and an access-point and could cause
   network-issues with your other WiFi-devices on your WiFi-network. */
  WiFi.mode(WIFI_STA);
  WiFi.begin(ssid, password);
  while (WiFi.status() != WL_CONNECTED)
  {
    delay(500);
    Serial.print(".");
  }
  // Fin de l'init
  delay(3000);
  IPAddress ip = WiFi.localIP();
  String ipStr = String(ip[0]) + '.' + String(ip[1]) + '.' + String(ip[2]) + '.' + String(ip[3]);
  ipStr.toCharArray(buffer, 20);
  previous=millis();

  Serial.print("Ip adress");
  Serial.println(WiFi.localIP().toString());
  Serial.print("Mac adress");
  Serial.println(WiFi.macAddress());
  fnwatchdog();
  Serial.println("Fin setup");
}

void loop()
{
  // Watchdog reccurent
  current=millis();
  if (current>=(previous+delaiwatchdog))
  {
    fnwatchdog();
  }
}

```

```

    previous=millis();

}

// lecture du port serie
while (Serial.available())
{
// get the new byte:
char inChar = (char)Serial.read();

// add it to the inputString:
    inputstring += inChar;
// if the incoming character is a newline, set a flag so the main loop can
// do something about it:
if (inChar == '\n')
{
    stringComplete = true;
    //Serial.println("Fin saisie Serial");
    decode_cmd(inputstring);

    inputstring="";
} //end if Inchar
} //endwhile serial.available
} //end loop

int decode_cmd(String cmdfromarduino)
{
    int nbcara=0;
    bool controle_format=false;
    bool envoi_payload=false;
    String payload2="";

    bool debug=true;

    /*structure : cmd=xx?yyyyyy
    tag= :mot clé de longueur fixe , 4 caracteres
    xxx : est un commande, on peut la laisser au format string, mais 3 caracteres uniquement
    cela correspond aux codes de la table Tcontroles
    &data= : mot clé , c'est un separateur sur un caractere
    yyyyy : données variables liées à la commande
    */

    /* Parametrage du Moniteur Serie :
    * 115200 baud
    * Nouvelle ligne
    * important ; le rajout de /n en fin de ligne evite de creer une boucle sur le port COM
    */

    Serial.println("debug : decode_cmd");
    Serial.print ("debug : cmdfromarduino : ");

```

```
Serial.println(cmdfromarduino);
```

```
/*controle du format de la trame*/
```

```
nbcар = cmdfromarduino.length()-1; //j'enleve le caractere /n du compteur
```

```
if (debug)
```

```
{
```

```
  //Serial.print ("Nb car : ");
```

```
  //Serial.println(nbcар);
```

```
}
```

```
if (nbcар <=5) //if faut rajouter le caractere /n dans
```

```
{
```

```
  Serial.println("Nombre de caracteres insuffisant");
```

```
  controle_format=false;
```

```
}
```

```
if (cmdfromarduino.startsWith("cmd=25?"))
```

```
{
```

```
  Serial.println(WiFi.macAddress());
```

```
}
```

```
if (cmdfromarduino.startsWith("cmd=26?"))
```

```
{
```

```
  Serial.println(WiFi.localIP().toString());
```

```
}
```

```
/*recherche cmd=, en premiere position */
```

```
if (cmdfromarduino.startsWith("Tag="))
```

```
{
```

```
  Serial.println("mot clé tag OK");
```

```
  controle_format=true;
```

```
  cmdfromarduino.trim();
```

```
  String url = "/smartpoker/website/admin/srv/srv.php?D=0&Em=";
```

```
  url += WiFi.macAddress();
```

```
  url += "&";
```

```
  url += cmdfromarduino;
```

```
  Serial.print("connecting to ");
```

```
  Serial.println(host);
```

```
  Serial.print("Requesting URL: ");
```

```
  Serial.println(url);
```

```
  http.begin(host,port,url);
```

```
  int httpCode = http.GET();
```

```
  if (httpCode)
```

```
  {
```

```
    if (httpCode == 200) {
```

```
      payload = http.getString();
```

```
      //Serial.println(payload);
```

```
      //int debut = payload.indexOf("Payload :");
```

```
      //Serial.println(payload.substring(debut,payload.length()));
```

```
    }
```

```
  }
```

```
  http.end();
```

```
  /* WiFi.disconnect();*/
```

```

    /* Analyse du payload */
  } // end starwith=Tag

  /* envoi du Payload vers l'arduino*/
  if (envoi_payload=true)
  {
    Serial.println(payload2); //envoi vers l'arduino
    envoi_payload=false;
  } //end if envoi_payload
} //end decode_cmd

int fnwatchdog()
{
  Serial.println("Envoi d'une trame watchdog....");
  String url = "/smarpoker/website/watchdog/watchdog.php?mac=";
  url += WiFi.macAddress();
  url += "&ip=";
  url += WiFi.localIP().toString();

  Serial.print("connecting to ");
  Serial.println(host);
  Serial.print("Requesting URL: ");
  Serial.println(url);

  http.begin(host,port,url);
  int httpCode = http.GET();
  if (httpCode)
  {
    if (httpCode == 200) {
      payload = http.getString();
      Serial.println(payload);
      Serial.println("Fin payload");
    }
    else
    {
      Serial.println("cmd=40");    // Watchdog KO
    }
  }
  http.end();
}

```