

```
//3.3 to EN and ground IO 0 for programing mode
```

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

```
WiFiServer server(80); //Starts on port 80
```

```
String html_setup = R"=====(
```

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<meta name='viewport' content='width=device-width, initial-scale=1.0' /> //Basic  
HTML setup for screen size
```

```
<meta charset='utf-8'>
```

```
<script>
```

```
function refresh(refreshPeriod)
```

```
{
```

```
    setTimeout('location.reload(true)', refreshPeriod); //Refresh
```

```
setup
```

```
{
```

```
    window.onload = refresh(50);
```

```
</script>
```

```
<style>
```

```
body {font-size:140%;background-color: #80ffff; }
```

```
#main {display: table; margin: auto; padding: 0 10px 0 10px; } //Various CSS
```

```
styling
```

```
table, th, td {border: 1px solid black;border-collapse: collapse;} //Creating
```

```
table sytle and background color
```

```
table.center {margin-left: auto;margin-right: auto;}
```

```
</style>
```

```
<title>Website</title>
```

```
//Title of page
```

```
</head>
```

```
<body>
```

```
<table style="height: 284px;" width="710">
```

```
<tbody>
```

```
<tr style="height: 216px;">
```

```
)=====";
```

```
String html_end = R"=====(
```

```
</tr>
```

```
</tbody>
```

```
</table>
```

```
</body>
```

```
</html>
```

```
)=====";
```

```
String header = "HTTP/1.1 200 OK\r\nContent-Type: text/html\r\n\r\n";
```

```
char ssid[] = "WIFI 2.0"; // your network SSID (name)
```

```
char pass[] = "f9da55c1aa"; // your network password
```

```
String pos0 = "";
```

```
String pos1 = "";
```

```

String pos2 = ""; //variables for infomation storage
String pos3 = "";
String pos4 = "";
String request = "";

void setup()
{
  Serial.begin(9600); //initialize serial communication
  Serial.setTimeout(1000);
  Serial.println();
  Serial.println("Serial started at 9600");
  Serial.print(F("Connecting to "));
  Serial.println(ssid);
  WiFi.begin(ssid, pass); //initialize wifi communication
  while (WiFi.status() != WL_CONNECTED) {
    Serial.print(".");
    delay(500);
  }
  Serial.println("");
  Serial.println(F("[CONNECTED]"));
  Serial.print("[IP ");
  Serial.print(WiFi.localIP());
  Serial.println("]");
  server.begin();
  Serial.println("Server started");
}

void loop()
{
  WiFiClient client = server.available();
  if (!client) { return; } // Check if a client has connected
// Serial.println("update pos:");
  request = Serial.readStringUntil('#'); // Read the first line of the request
// Serial.println(request);
  if(request.indexOf("pos0") >= 0 ){ //basic check for pos based on info in
the serial line
    request.remove(0,4); //remove the first four characters to
obtain the name of card
    pos0=request; //store name
  }else if(request.indexOf("pos1") >= 0 ){
    request.remove(0,4);
    pos1=request;
    Serial.println(pos1);
  }else if(request.indexOf("pos2") >= 0 ){
    request.remove(0,4);
    pos2=request;
  }
}

```

```
}else if(request.indexOf("pos3") >= 0 ){
    request.remove(0,4);
    pos3=request;
}else if(request.indexOf("pos4") >= 0 ){
    request.remove(0,4);
    pos4=request;
}else{
    delay(5);
}

client.flush();
client.print( html_setup);          //filling the tables in the website
client.print("<td style=\"width: 135px; height: 216px;text-align:
center;\">"+pos0+"</td>");
client.print("<td style=\"width: 135px; height: 216px;text-align:
center;\">"+pos1+"</td>");
client.print("<td style=\"width: 135px; height: 216px;text-align:
center;\">"+pos2+"</td>");
client.print("<td style=\"width: 135px; height: 216px;text-align:
center;\">"+pos3+"</td>");
client.print("<td style=\"width: 135px; height: 216px;text-align:
center;\">"+pos4+"</td>");
client.print( html_end);

delay(5);
}
```