

```

#include <Arduino.h> // incluir biblioteca
#include <ESP8266WiFi.h> // incluir biblioteca
#include <NTPClient.h> // incluir biblioteca
#include <WiFiUdp.h> // incluir biblioteca
#ifdef ESP32 // direstiva de identificação de undefined <<Se o ESP for o 32 então>>
    #include <WiFi.h> // incluir biblioteca
    #include <AsyncTCP.h> // incluir biblioteca
#else // <<Senão, ESP é 8266>>
    #include <ESP8266WiFi.h> // incluir biblioteca
    #include <ESPAsyncTCP.h> // incluir biblioteca
#endif // <<Fim da condição>>
#include <ESPAsyncWebServer.h> // incluir biblioteca
#include <Stepper.h> // incluir biblioteca

#define IN1 14 // Define uma constante, incluindo o nome e o valor
#define IN2 12 // Define uma constante, incluindo o nome e o valor
#define IN3 13 // Define uma constante, incluindo o nome e o valor
#define IN4 15 // Define uma constante, incluindo o nome e o valor

#define Buzzer 2 // Define uma constante, incluindo o nome e o valor

AsyncWebServer server(80); // criar um objeto AsyncWebServer na porta 80

// REPLACE WITH YOUR NETWORK CREDENTIALS
const char* ssid = "nome wifi"; // nome do wifi
const char* password = "senha do wifi"; // senha do wifi

const char* PARAM_INPUT_1 = "input1"; // entrada de dados do HTML
const char* PARAM_INPUT_2 = "input2"; // entrada de dados do HTML

const char* PARAM_INPUT_3 = "input3"; // entrada de dados do HTML

```

```
const char* PARAM_INPUT_4 = "input4";// entrada de dados do HTML
```

```
const char* PARAM_INPUT_5 = "input5"; // entrada de dados do HTML
```

```
const char* PARAM_INPUT_6 = "input6"; // entrada de dados do HTML
```

```
const char index_html[] PROGMEM = R"rawliteral( // Cria uma variavel, para agir como página web
// <<Código cria 2 botões o "User" e a "Senha", se as informações baterem o usuário acessa a página
de controle de horários>>)
```

```
<!DOCTYPE html>
```

```
<html>
```

```
  <head>
```

```
    <title>Projeto TCC Fecap</title>
```

```
    <link rel="preconnect" href="https://fonts.googleapis.com">
```

```
    <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
```

```
    <link href="https://fonts.googleapis.com/css2?family=Lato&display=swap" rel="stylesheet">
```

```
  <style>
```

```
    *{
```

```
      font-family: 'Lato', sans-serif;
```

```
    }
```

```
  body{
```

```
    background-color:hsl(123, 53%, 28%);
```

```
  }
```

```
  .login-div{
```

```
    margin: 100px auto;
```

```
    width: 350px;
```

```
    background-color: rgb(255, 255, 255);
```

```
    padding: 45px;
```

```
border-radius: 10%;  
}
```

```
.logo{  
  width: 130px;  
  height: 130px;  
  border-radius: 50%;  
  margin:0 auto;  
  margin-bottom: 4px;  
}
```

```
.logo img {  
  width: 100%;  
}
```

```
.tittle, .sub-tittle{  
text-align: center;  
color:#505050;  
}
```

```
.tittle{  
  font-weight:bolder;  
  font-size: 25px;  
}
```

```
.sub-tittle{  
  font-size: 15px;  
}
```

```
.form{  
  width: 100%;
```

```
    margin-top: 30px;
}
```

```
.form input{
    font-size: 15px;
    padding: 10px 20px 10px 5px;
    border: none;
    outline: none;
    background: none;
}
```

```
.username, .senha{
    display: block;
    border-radius: 30px;
    border: 1px solid rgba(0,0,0,0.2);
    padding: 10px;
    margin: 10px 0;
}
```

```
.form svg{
    height: 20px;
    margin-bottom: -5px;
    margin-left: 10px;
    margin-right: 5px;
}
```

```
.opcoes {
    display: flex;
    flex-direction: row;
    justify-content: space-between;
```

```
padding: 5px 0px;
margin-bottom: 25px;
}
```

```
button.Logar-se{
width: 100%;
padding: 12px 10px;
border: none;
font-size: 15px;
border-radius: 30px;
background-color:hsl(123, 53%, 28%) ;
color: white;
margin-bottom: 5px;
}
```

```
button.Logar-se:hover{
background-color:hsl(123, 35%, 24%) ;
}
```

</style>

<meta name="viewport" content="width=device-width, initial-scale=1">

</head>

<body>

<div class="login-div">

<div class="logo">

<img

src="

YXGRobEUljkBwRNS0eHxI//aAAwDAQACEQMRAD8AvGiiigCiiigCiiigCiiivDNgZOWHOgPRrFKGo9PIVfqB  
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7be03wLcvhilT0Q6cEe8fPEfKEst38JYk/HKmrKpFDAh8qLcZRRRWj0hRRRQHmlvVx1mo2UfZGs8x+Sxr9  
WPypIpe0lesvbqfsjEduv7o6x8fvOB+7UZmXRDFRRRVNHkilDoT+QlurE8opesi/wCnJuAPI5z504Up9K09  
XuLfUB7qnqbj/pOdmPgr4PxqPk5z0p8DbRWAazVOGUUUUAUUUUUAUUUBz3UCylySKGRgQynkQdiD  
VX33QO8tj+u0yXI3wCwVgD9k8fsSL5/LbNWvSN6Uekfq9v1EbYmmBGfuJyZvAn3R8T2VmVHHGjGs0ug  
oQajqOorLHJcJFBGD174CqBvkZTd9gTgHBFcOqa1bw2xstP4mVyDPOwwOuPsqvML547RvckyUepWXq  
S2URumUkNM8MI/KNzly52XOOzkorh0qDS1njZ7i5TgdWKTRLg4OcHgyQKyeN3yrfWy1+iOlerWkMOP  
aC5f9pvab6nFTdclhqEUy8cMiSL3qwPzxyrrroj6EUkkkZooooaMVx6td9TBLKfsRu3yBNdtKPpQvOr06bvf  
hQfEjP90GozM5ZYtmr0U2nV6fGx5yM7n58I+iinOo3o9Z9TawRdqRlp8woz9c1l0WxIRyxSM0UUUVTYUU  
UUBy6hdrDE8r+6iMx8gM/OuPo1ZtFboJPzrZkl/bcl2+ROPICvGrjrZlrf7PEJZf2UOVX96QL5hHFTAqdTO7  
M0UUVTQVz3toksbxSDiR1KsO8EYNdFFAL/RW4cl1tMczW5CEn7af8OT4rsf1lap+obWrZlZLqFSZlgQ6jnJ  
Gd2TxYe8viMfaNSdvOrqroQysAVYciCMgiojK00N9FFFFU0FFFFFAFRcuHwzSmZ4EeU49ttxEY5Y4s8  
PwxUpWKEaT3PKoAMAYHhWi8sY5V4ZY0de51DD611UULQj6j6O4uLrbCV7SbsKEIT4EzyB4A48K5F6TX  
1geHVI0th5C4hA+bDYfMKfOrCrw6AjBGQeYPbUrg5PDS1jp7eRw6RrMFynHBKsi9uOY8GB3U+dSNJmp  
+j+Bn660d7Sb70R9n+HlwPAECucaXraeyl5byD7zrg/RD/ADNLGea+peQ6XNwkal5GVEUZLMQAPMmq6  
1K8fV544bZMWUMoeSZgRxfZUeIJAHpfJwOchH0FmuGD6pePOAcIJPZT/L6AHxp0srRikEcSqiKMBVGA  
KbkaiPR6L1Z0iiiiqdgooooArVNIFUsxwoBJPcBvW2uCYdY/B9hCC/i3NV+GzH93xoDzpcBw0rjEkhyQfsqNI  
T4Dn+sWPbUhWaxQGAKKKAKKKAKioo+ocgfmZGyP8AluTuP2HO/gxP3gBK1rkjDAhgCCMEHtoRmyiu  
e3RIHCTkDkTzx3HvI7+2uihTFZpB6cdOZLkDYyO0fMYdi3FtksANvAUu/wBbFz+jw/N/xrOZHCXaMOLpsu  
Ciqf8A62Ln9Hh+b/jR/Wxc/o8Pzf8AGmZE+Jw+S4KKp/8ArYuf0eH5v+NH9bFz+jw/N/xpmQ+Jw+S36KT+  
g/SqS7illuEjiSngMgnHLiYksdgARXBrPpQt4yVt0acj7WeFPgSCT8seNW0b/WhlzNj/AEVUMnpXuM7QRA  
eJc/hTJ0M6YT3XWyTxxRW8S5Zxxc+eNzjYZJ+HfUzIzHtEJOkpDFVFP6V5+Jurgi4Mnh4i+cZ2zg88V4/rXuf  
7CH+/+NMjY8Th8lvmiofovq3rVpFcEAFwcgcgQxUgZ8RSBqXpQnSaVI4YiISOqk8eSASMnB7cVbRuWNG  
KTfUtiiqg/rXuf7CH+/8AjQnpYuM728JHcC4+u9TMjHxOHYw9WaVuiPTGG+BVQY5VGWjJB25cSke8PKR  
TRWjtGSKrRomc+6vvHI4eJ8vrXqGIKAo/+e0k+JO9ekTG55nn/wCd1bKGgoooooAooooAooooAoo  
rTczBEZ25KpY+QGAAoTp7edbf3DdivwD9wBf5g166DaJfD3BjnYrGsbMSGCnOVAGT5n5VAzzF2Z25uxY  
+ZJJ/nXRaaRcTLxQ28sqg4yiMwz3ZA57iuPU+OpXPnVlqp6N9PJwJZSe4SJ/pqt+I2nxW93LBAWKR8lyxB  
OeEE7gDtOKY/Rt0dmS+Es9vJEkcsGdGUZOFAyRzwxPwpO1a766eWX78jt8Cxl+mKr2OmK04J5adnb0  
V0+Ke5SO5kEcWGLNxBeQOAC22c4qwbfoLpTsEjuWdjyVZ4yTtnYAd1VzpOg3N0GNtCZApAYgqME7j3i  
KdvR50Uube7M1zAUvIn4SShyxwMDHj+zxURcFbJwu+oudLbli1haM3q0UhL5OTJJtnJAGVXAAHeCe6o  
zo/okt5MIYQM4yzHki/eP4dtRzSLiWbdmJYnxO5+tWf6fSNDc8uszHt28OGx8M5+IFqzEEsTEp7HZbeim2  
C/Iz5mbtK8Cj4AqT9aiOntxFZWyabak+17cpJBYgnIDEY3Yj5KB21ZmsailvDJPIfYRST49wHiTgDzr541O/ee  
Z55TI5GLHw7gPADAHIWpUj0doyYcaitX7E10B0L1u6UOMxR+3J3ED3V/eP0DUv3MPA7oeasy/Ikf5VKaF  
OnntFZbdkUOcsSgJOBgbnsHd4moy6uDI7yNjdmZsDAYxJO3ZuayeRuOVJblsejjVAmkyuf+A03+ESfzaqiy  
eZ59tMmjap1enX0Od3eAD94sG/upS3Rs1izuMVwiw/R70Nt7u3ea5ViesKpwsV2AGeXPcn5VAdPtBhs7  
lYoHYq0YYhiCVJJGMjsOM71x6d0qvllxDBOUjGcAKnacncrnmajpJZJ5MsXllc+LMx8uZppRZSg4KKWvly+i  
1GOox8PIJIW8uHH8ytXnSN6NuijWqNNOMTSADh/s158J/WJ3PkBTzW4rQ9/Z4OENTNFFFaO4UUUUUA  
UUUUUAUUUUUAUUUBilv0hXnVafcHOCycA/flX+RNMLcGr6XFcJ1dwgdMg8JJG45HYiozMO3FpHzfV6ej  
Oz6vt4e9+KQ/vE4/ugVt/oHp/wCjL/E/+qmC1tljRY0HCiKFUDsAGAPIWYxo82BgZJWyM6X3nU2VxIOYiY  
Dzl4R9SK+eAK+k9Tsl7iMxTrxtjK5lzzggjke8CoYdBNP/AEZf4n/1Ukmy4+C8RqioNC6VXVmjr27Kqs3Eco  
CScAcz4AVJ/wBZGof2kf8A21qzf6Cad+ir/E/+qsf0D079FX+J/wDVTkzksDFSpSKOe2kKGfgPVFyvGB7IbY8  
PhzFeb07kicSQyNG45MpiPltzHhX0Tp2jQQRmKGNVjJJK7kEnnnizmo+46GWDnLWkWF1Rw/4cVMgFZJ



bplK6n0ku7hOruJ2kTIPCQo3HI+yBmu7oDofrd2qsMxR+3J3EDkv7x+matn+g2n/oqfNvxqQ0nQ7e2DC3i  
WMMQWxnfHlmauV9Sx7NLMnN2Y/o5afolv/2o/wAKpf0h2Kw38qRqqIQjKqgADKgbAbDcGr9qF1Pox  
aXD9ZPCrvgDJLchnA2PjVas742DnjSPnriOMdmxx5Zx/M/OvdtbmR0jX3nZUHmxCj+dXx/QbT/0VPm341  
7tuh1jG6yR2yK6MGU5bYjcHc99ZyM8y7HLq0dKdGrMAD1S3274o/wrstNNhi/Mwxx558CKv+EV1is1uj  
3KKXQKKKKpoKKKKAKKKKAKKKKA/9k=" alt=""/>

</div>

<div class="tittle">Projeto TCC Fecap</div>

<div class="sub-tittle">Login Admin</div>

<div class="form">

<div class="username">

<form id = "form\_id">

<svg class="svg-icon" viewBox="0 0 20 20">

<path d="M12.075,10.812c1.358-0.853,2.242-2.507,2.242-4.037c0-2.181-1.795-4.618-  
4.198-4.618S5.921,4.594,5.921,6.775c0,1.53,0.884,3.185,2.242,4.037c-3.222,0.865-5.6,3.807-  
5.6,7.298c0,0.23,0.189,0.42,0.42,0.42h14.273c0.23,0,0.42-0.189,0.42-  
0.42C17.676,14.619,15.297,11.677,12.075,10.812 M6.761,6.775c0-2.162,1.773-3.778,3.358-  
3.778s3.359,1.616,3.359,3.778c0,2.162-1.774,3.778-3.359,3.778S6.761,8.937,6.761,6.775  
M3.415,17.69c0.218-3.51,3.142-6.297,6.704-  
6.297c3.562,0,6.486,2.787,6.705,6.297H3.415z"></path>

</svg>

<input type="text" placeholder="Username" name = "input1" id = "USERdata">

</div>

<div class="senha">

<svg class="svg-icon" viewBox="0 0 20 20">

<path d="M17.308,7.564h-1.993c0-2.929-2.385-5.314-5.314-  
5.314S4.686,4.635,4.686,7.564H2.693c-0.244,0-0.443,0.2-  
0.443,0.443v9.3c0,0.243,0.199,0.442,0.443,0.442h14.615c0.243,0,0.442-0.199,0.442-0.442v-  
9.3C17.75,7.764,17.551,7.564,17.308,7.564  
M10,3.136c2.442,0,4.43,1.986,4.43,4.428H5.571C5.571,5.122,7.558,3.136,10,3.136  
M16.865,16.864H3.136V8.45h13.729V16.864z M10,10.664c-0.854,0-1.55,0.696-  
1.55,1.551c0,0.699,0.467,1.292,1.107,1.485v0.95c0,0.243,0.2,0.442,0.443,0.442s0.443-0.199,0.443-  
0.442V13.7c0.64-0.193,1.106-0.786,1.106-1.485C11.55,11.36,10.854,10.664,10,10.664  
M10,12.878c-0.366,0-0.664-0.298-0.664-0.663c0-0.366,0.298-0.665,0.664-  
0.665c0.365,0,0.664,0.299,0.664,0.665C10.664,12.58,10.365,12.878,10,12.878"></path>

</svg>

<input type="password" placeholder="Senha" name = "input2" id = "SENHAdata">

</div>

```

<div class="opcoes">

</div>

    <button type = "submit" onclick="Login()" class="Logar-se">Logar</button>


    <script>

    const Login = () =>{

    USER = document.getElementById("USERdata").value;

    SENHA = document.getElementById("SENHAdata").value;

    if (USER == "Gustavo" && SENHA == "guga3108" || USER == "TestUser" && SENHA ==
"TestSenha"){

        alert("Usuario correto!")

        document.getElementById("form_id").action = "/get"

        document.getElementById("form_id").submit();

    }

    else{

        alert("Usuario ou Senha incorretos!")

    }

    }

    </script>

    </form>

</div>

</div>

</body>

</html>)<rawliteral";

```

```

void notFound(AsyncWebServerRequest *request) { // Se a rede não for encontrada

```

```

    request->send(404, "text/plain", "Not found"); // Error de Rede 404!

}

```

```

WiFiUDP ntpUDP;

```

```
NTPClient timeClient(ntpUDP, "pool.ntp.org"); // Solicitaremos o horário de pool.ntp.org
```

```
int currentHour; // define uma variável do tipo inteira
```

```
int currentMinute; // define uma variável do tipo inteira
```

```
String SaveUSER; // define uma variável do tipo String
```

```
String SaveSENHA; // define uma variável do tipo String
```

```
int H1; // define uma variável do tipo inteira
```

```
int H2; // define uma variável do tipo inteira
```

```
int H3; // define uma variável do tipo inteira
```

```
int H4; // define uma variável do tipo inteira
```

```
String SaveH1; // define uma variável do tipo String
```

```
String SaveH2; // define uma variável do tipo String
```

```
String SaveH3; // define uma variável do tipo String
```

```
String SaveH4; // define uma variável do tipo String
```

```
bool Debounce = true; // define uma variável do tipo booleana
```

```
bool Turned = true; // define uma variável do tipo booleana
```

```
const int stepsPerRevolution = 512; // define uma constante do tipo inteira
```

```
Stepper myStepper(stepsPerRevolution, IN1, IN3, IN2, IN4); // Inicialize uma instância da biblioteca  
AccelStepper chamada stepper. Controlando o motor de passo com quatro fios e os pinos de  
entrada. A ordem dos pinos é IN1, IN3, IN2, IN4
```

```
void setup() {
```

```
  Serial.begin(115200); // define a taxa de comunicação de bits por segundo
```

```
pinMode(buzzer,OUTPUT); // define o pino do "buzzer" como OUTPUT

myStepper.setSpeed(500); // Define a velocidade em passos por segundo.

WiFi.mode(WIFI_STA); // define o modo de conexão como "WIFI_STA"

WiFi.begin(ssid, password); // iniciar a conexão com nome e senha da rede

if (WiFi.waitForConnectResult() != WL_CONNECTED) { // se a conexão com o Wi-Fi falhar

    Serial.println("WiFi Failed!"); // printa na tela a mensagem <<Printa "Wifi Failed!"

    return; // retorna a condição da variável

}

Serial.println(); // printa na tela

Serial.print("IP Address: "); // printa na tela

Serial.println(WiFi.localIP()); // printa na tela
```

```
server.on("/", HTTP_GET, [](AsyncWebServerRequest *request){ // <<O nome da página é
exatamente o primeiro parâmetro, por exemplo: nessa linha o nome da página é "/">>

    request->send_P(200, "text/html", index_html); // Executa a String "index_html" como text/html
no endereço web

});
```

```
server.on("/get", HTTP_GET, [] (AsyncWebServerRequest *request) { // <<O nome da página é
exatamente o primeiro parâmetro, por exemplo: nessa linha o nome da página é "/get">>
```

```
String USER; // define uma variável do tipo String

String SENHA; // define uma variável do tipo String
```

```
USER = request->getParam(PARAM_INPUT_1)->value(); // <<Solicita o parâmetro
"PARAM_INPUT1", atribuindo o valor a variável "USER">>
```

```
SENHA = request->getParam(PARAM_INPUT_2)->value(); // <<Solicita o parâmetro
"PARAM_INPUT2", atribuindo o valor a variável "SENHA">>
```

```
SaveUSER = USER; // <<Atribuí o valor da variável "User" na variável "SaveUSER">>
```

```
SaveSENHA = SENHA; // <<Atribuí o valor da variável "SENHA" na variável "SaveSenha">>
```

```
Serial.println("Usuario: " + USER); // printa na tela a mensagem
```

```
Serial.println("Senha: " + SENHA); // printa na tela a mensagem
```

```
Serial.println(""); // printa na tela a mensagem
```

```
request->send(200,"text/html","<!DOCTYPE html><html>" // Executa o código HTML como  
text/html no endereço web
```

```
// <<Código cria 4 botões que recebem as variaveis "H1", "H2", "H3" e "H4", Onde os valores podem  
ser alterados e enviados para o ESP. Cria uma divisão que mostra o nome do "USER">>
```

```
"<head>"
```

```
"<link rel='preconnect' href='https://fonts.googleapis.com'>"
```

```
"<link rel='preconnect' href='https://fonts.gstatic.com' crossorigin>"
```

```
"<link href='https://fonts.googleapis.com/css2?family=Lato&display=swap' rel='stylesheet'>"
```

```
"<title>Projeto TCC Fecap</title>"
```

```
"<style>"
```

```
" *{"
```

```
" font-family: 'Lato', sans-serif;"
```

```
"}"
```

```
"body{"
```

```
" background-color:hsl(123, 53%, 28%);"
```

```
"}"
```

```
".svg-icon{"
```

```
" height: 20px;"
```

```
" margin-bottom: -5px;"
```

```
" margin-left: 10px;"
```

```
" margin-right: 5px;"
```

```
"}"
```

```
".Time{ "
```

```
" display: block;"
```

```
" border-radius: 30px;"
```

```
" border: 1px solid rgba(0,0,0,0.2);"
```

```
" padding: 10px;"
```

```
" margin: 10px 0;"
}"
".user{"
  " background-color:white;"
  " display: block;"
  " border-radius: 30px;"
  " border: 1px solid rgba(0,0,0,0.2);"
  " padding: 5px;"
  " position: relative;"
  " width: 200px;"
  " height: 20px;"
  " margin: 10px 0;"
}"
".user input{"
  " font-size: 15px;"
  " padding: 10px 20px 10px 5px;"
  " border: none;"
  " outline: none;"
  " background: none;"
}"
".BackSub{"
  " margin: -50px auto;"
  " position:fixed;"
  " width: 350px;"
  " background-color: rgb(255, 255, 255);"
  " padding: 45px;"
  " border-radius: 10%;"
}"
".forms{"
  " text-align: center;"
  " margin: 100px auto;"
```

```
" width: 450px;"
" padding: 20px;"
" border-radius: 10%;"
"}"

".tittle, .sub-tittle{"
"text-align: center;"
"color:#505050;"
"}"

".tittle{"
" font-weight:bolder;"
" font-size: 25px;"
"}"

"button.Enviar{"
" width: 100%;"
" padding: 12px 10px;"
" border: none;"
" font-size: 15px;"
" border-radius: 30px;"
" background-color:hsl(123, 53%, 28%) ;"
" color: white;"
" margin-bottom: 5px;"
"}"

"button.Enviar:hover{"
" background-color:hsl(123, 35%, 24%) ;"
"}"

"</style>"

"</head>"

"<body>"

  "<div class='user'>"

    " <svg class='svg-icon' viewBox='0 0 20 20'>"
```

```

"      <path d='M12.075,10.812c1.358-0.853,2.242-2.507,2.242-4.037c0-2.181-1.795-4.618-
4.198-4.618S5.921,4.594,5.921,6.775c0,1.53,0.884,3.185,2.242,4.037c-3.222,0.865-5.6,3.807-
5.6,7.298c0,0.23,0.189,0.42,0.42,0.42h14.273c0.23,0,0.42-0.189,0.42-
0.42C17.676,14.619,15.297,11.677,12.075,10.812 M6.761,6.775c0-2.162,1.773-3.778,3.358-
3.778s3.359,1.616,3.359,3.778c0,2.162-1.774,3.778-3.359,3.778S6.761,8.937,6.761,6.775
M3.415,17.69c0.218-3.51,3.142-6.297,6.704-
6.297c3.562,0,6.486,2.787,6.705,6.297H3.415z'></path>"

"      </svg> Seu user &colon; "+SaveUSER+"

"    </div>"

"    <div class='forms'>"

"      <div class='BackSub'>"

"<form action = /set>"

" <div class='tittle'>Projeto TCC Fecap</div>"

" <div class='sub-tittle'>Controle dos Horarios</div>"

" <p></p>"

" <center>"

" <svg class='svg-icon' viewBox='0 0 20 20'>"

"    <path d='M10.25,2.375c-4.212,0-7.625,3.413-7.625,7.625s3.413,7.625,7.625,7.625s7.625-
3.413,7.625-7.625S14.462,2.375,10.25,2.375M10.651,16.811v-0.403c0-0.221-0.181-0.401-0.401-
0.401s-0.401,0.181-0.401,0.401v0.403c-3.443-0.201-6.208-2.966-6.409-6.409h0.404c0.22,0,0.401-
0.181,0.401-
0.401S4.063,9.599,3.843,9.599H3.439C3.64,6.155,6.405,3.391,9.849,3.19v0.403c0,0.22,0.181,0.401,
0.401,0.401s0.401-0.181,0.401-0.401V3.19c3.443,0.201,6.208,2.965,6.409,6.409h-0.404c-0.22,0-
0.4,0.181-0.4,0.401s0.181,0.401,0.4,0.401h0.404C16.859,13.845,14.095,16.609,10.651,16.811
M12.662,12.412c-0.156,0.156-0.409,0.159-0.568,0l-2.127-
2.129C9.986,10.302,9.849,10.192,9.849,10V5.184c0-0.221,0.181-0.401,0.401-
0.401s0.401,0.181,0.401,0.401v4.651l2.011,2.008C12.818,12.001,12.818,12.256,12.662,12.412'></p>
ath>"

"  </svg>"

"1&#186 Horario <input type='time' name = 'input3' class='Time' value = '"+SaveH1+"'>"

"<p></p>"

"<svg class='svg-icon' viewBox='0 0 20 20'>"

"  <path d='M10.25,2.375c-4.212,0-7.625,3.413-7.625,7.625s3.413,7.625,7.625,7.625s7.625-
3.413,7.625-7.625S14.462,2.375,10.25,2.375M10.651,16.811v-0.403c0-0.221-0.181-0.401-0.401-
0.401s-0.401,0.181-0.401,0.401v0.403c-3.443-0.201-6.208-2.966-6.409-6.409h0.404c0.22,0,0.401-
0.181,0.401-
0.401S4.063,9.599,3.843,9.599H3.439C3.64,6.155,6.405,3.391,9.849,3.19v0.403c0,0.22,0.181,0.401,
0.401,0.401s0.401-0.181,0.401-0.401V3.19c3.443,0.201,6.208,2.965,6.409,6.409h-0.404c-0.22,0-
0.4,0.181-0.4,0.401s0.181,0.401,0.4,0.401h0.404C16.859,13.845,14.095,16.609,10.651,16.811

```



M12.662,12.412c-0.156,0.156-0.409,0.159-0.568,0l-2.127-  
2.129C9.986,10.302,9.849,10.192,9.849,10V5.184c0-0.221,0.181-0.401,0.401-  
0.401s0.401,0.181,0.401,0.401v4.651l2.011,2.008C12.818,12.001,12.818,12.256,12.662,12.412'></p>

"</svg>"

"2&#186 Horario <input type='time' name = 'input4' class='Time' value = ''+SaveH2+'''>"

"<p></p>"

"<svg class='svg-icon' viewBox='0 0 20 20'>"

" <path d='M10.25,2.375c-4.212,0-7.625,3.413-7.625,7.625s3.413,7.625,7.625,7.625s7.625-  
3.413,7.625-7.625S14.462,2.375,10.25,2.375M10.651,16.811v-0.403c0-0.221-0.181-0.401-0.401-  
0.401s-0.401,0.181-0.401,0.401v0.403c-3.443-0.201-6.208-2.966-6.409-6.409h0.404c0.22,0,0.401-  
0.181,0.401-  
0.401S4.063,9.599,3.843,9.599H3.439C3.64,6.155,6.405,3.391,9.849,3.19v0.403c0,0.22,0.181,0.401,  
0.401,0.401s0.401-0.181,0.401-0.401V3.19c3.443,0.201,6.208,2.965,6.409,6.409h-0.404c-0.22,0-  
0.4,0.181-0.4,0.401s0.181,0.401,0.4,0.401h0.404C16.859,13.845,14.095,16.609,10.651,16.811  
M12.662,12.412c-0.156,0.156-0.409,0.159-0.568,0l-2.127-  
2.129C9.986,10.302,9.849,10.192,9.849,10V5.184c0-0.221,0.181-0.401,0.401-  
0.401s0.401,0.181,0.401,0.401v4.651l2.011,2.008C12.818,12.001,12.818,12.256,12.662,12.412'></p>  
ath>"

"</svg>"

"3&#186 Horario <input type='time' name = 'input5' class='Time' value = ''+SaveH3+'''>"

"<p></p>"

"<svg class='svg-icon' viewBox='0 0 20 20'>"

"<path d='M10.25,2.375c-4.212,0-7.625,3.413-7.625,7.625s3.413,7.625,7.625,7.625s7.625-  
3.413,7.625-7.625S14.462,2.375,10.25,2.375M10.651,16.811v-0.403c0-0.221-0.181-0.401-0.401-  
0.401s-0.401,0.181-0.401,0.401v0.403c-3.443-0.201-6.208-2.966-6.409-6.409h0.404c0.22,0,0.401-  
0.181,0.401-  
0.401S4.063,9.599,3.843,9.599H3.439C3.64,6.155,6.405,3.391,9.849,3.19v0.403c0,0.22,0.181,0.401,  
0.401,0.401s0.401-0.181,0.401-0.401V3.19c3.443,0.201,6.208,2.965,6.409,6.409h-0.404c-0.22,0-  
0.4,0.181-0.4,0.401s0.181,0.401,0.4,0.401h0.404C16.859,13.845,14.095,16.609,10.651,16.811  
M12.662,12.412c-0.156,0.156-0.409,0.159-0.568,0l-2.127-  
2.129C9.986,10.302,9.849,10.192,9.849,10V5.184c0-0.221,0.181-0.401,0.401-  
0.401s0.401,0.181,0.401,0.401v4.651l2.011,2.008C12.818,12.001,12.818,12.256,12.662,12.412'></p>  
ath>"

"</svg>"

"4&#186 Horario <input type='time' name = 'input6' class='Time' value = ''+SaveH4+'''>"

"<p></p>"

"</center>"

"<button value='Submit' class='Enviar'>Enviar</button>"

```
"</form>"
"</div>"
"</div>"
"</div>"
"</div>"
"</body>"
"</html>");
});
```

server.on("/set", HTTP\_GET, [] (AsyncWebServerRequest \*request) { <<O nome da página é exatamente o primeiro parâmetro, por exemplo: nessa linha o nome da página é "/set">>

```
String PARAM_3 = request->getParam(PARAM_INPUT_3)->value();// solicita um valor do html,
salvando ele na String
```

```
String PARAM_4 = request->getParam(PARAM_INPUT_4)->value();// solicita um valor do html,
salvando ele na String
```

```
String PARAM_5 = request->getParam(PARAM_INPUT_5)->value();// solicita um valor do html,
salvando ele na String
```

```
String PARAM_6 = request->getParam(PARAM_INPUT_6)->value();// solicita um valor do html,
salvando ele na String
```

```
String PARAM_3_HOR = PARAM_3.substring(0, 2);// retorna a parte da string entre os índices
inicial e final
```

```
String PARAM_3_MIN = PARAM_3.substring(3, 5);// retorna a parte da string entre os índices
inicial e final
```

```
String PARAM_4_HOR = PARAM_4.substring(0, 2);// retorna a parte da string entre os índices
inicial e final
```

```
String PARAM_4_MIN = PARAM_4.substring(3, 5);// retorna a parte da string entre os índices
inicial e final
```

```
String PARAM_5_HOR = PARAM_5.substring(0, 2);// retorna a parte da string entre os índices
inicial e final
```

```
String PARAM_5_MIN = PARAM_5.substring(3, 5);// retorna a parte da string entre os índices
inicial e final
```

```
String PARAM_6_HOR = PARAM_6.substring(0, 2);// retorna a parte da string entre os índices
inicial e final
```

String PARAM\_6\_MIN = PARAM\_6.substring(3, 5); // retorna a parte da string entre os índices inicial e final

PARAM\_3 = PARAM\_3\_HOR + PARAM\_3\_MIN; // salva os dois índices em uma variável

PARAM\_4 = PARAM\_4\_HOR + PARAM\_4\_MIN; // salva os dois índices em uma variável

PARAM\_5 = PARAM\_5\_HOR + PARAM\_5\_MIN; // salva os dois índices em uma variável

PARAM\_6 = PARAM\_6\_HOR + PARAM\_6\_MIN; // salva os dois índices em uma variável

H1 = PARAM\_3.toInt(); // transforma em inteiro

H2 = PARAM\_4.toInt(); // transforma em inteiro

H3 = PARAM\_5.toInt(); // transforma em inteiro

H4 = PARAM\_6.toInt(); // transforma em inteiro

SaveH1 = PARAM\_3\_HOR + ":" + PARAM\_3\_MIN; // salva os dois índices em uma variável

SaveH2 = PARAM\_4\_HOR + ":" + PARAM\_4\_MIN; // salva os dois índices em uma variável

SaveH3 = PARAM\_5\_HOR + ":" + PARAM\_5\_MIN; // salva os dois índices em uma variável

SaveH4 = PARAM\_6\_HOR + ":" + PARAM\_6\_MIN; // salva os dois índices em uma variável

String USER = SaveUSER; // cria uma variável do tipo String

String SENHA = SaveSENHA; // cria uma variável do tipo String

request->send(200, "text/html", "<!DOCTYPE html><html>" // Executa o código HTML como text/html no endereço web

// <<Código cria 4 botões que recebem as variáveis "H1", "H2", "H3" e "H4", Onde os valores podem ser alterados e enviados para o ESP. Cria uma divisão que mostra o nome do "USER">>

"<head>"

"<link rel='preconnect' href='https://fonts.googleapis.com'>"

"<link rel='preconnect' href='https://fonts.gstatic.com' crossorigin>"

"<link href='https://fonts.googleapis.com/css2?family=Lato&display=swap' rel='stylesheet'>"

"<title>Projeto TCC Fecap</title>"

```
"<style>"

" *{"

" font-family: 'Lato', sans-serif;"

"}"

"body{"

" background-color:hsl(123, 53%, 28%);"

"}"

".svg-icon{"

" height: 20px;"

" margin-bottom: -5px;"

" margin-left: 10px;"

" margin-right: 5px;"

"}"

".Time{ "

" display: block;"

" border-radius: 30px;"

" border: 1px solid rgba(0,0,0,0.2);"

" padding: 10px;"

" margin: 10px 0;"

"}"

".user{"

" background-color:white;"

" display: block;"

" border-radius: 30px;"

" border: 1px solid rgba(0,0,0,0.2);"

" padding: 5px;"

" position: relative;"

" width: 200px;"

" height: 20px;"

" margin: 10px 0;"

"}"
```

```
".user input{"
" font-size: 15px;"
" padding: 10px 20px 10px 5px;"
" border: none;"
" outline: none;"
" background: none;"
"}"

".BackSub{"
" margin: -50px auto;"
" position:fixed;"
" width: 350px;"
" background-color: rgb(255, 255, 255);"
" padding: 45px;"
" border-radius: 10%;"
"}"

".forms{"
" text-align: center;"
" margin: 100px auto;"
" width: 450px;"
" padding: 20px;"
" border-radius: 10%;"
"}"

".tittle, .sub-tittle{"
"text-align: center;"
"color:#505050;"
"}"

".tittle{"
" font-weight:bolder;"
" font-size: 25px;"
"}"

"button.Envia{"
```

```

" width: 100%;"
" padding: 12px 10px;"
" border: none;"
" font-size: 15px;"
" border-radius: 30px;"
" background-color:hsl(123, 53%, 28%) ;"
" color: white;"
" margin-bottom: 5px;"
"}"

"button.Envia: hover{"
" background-color:hsl(123, 35%, 24%) ;"
"}"

"</style>"
"</head>"
"<body>"
    "<div class='user'>"
        " <svg class='svg-icon' viewBox='0 0 20 20'>"
            " <path d='M12.075,10.812c1.358-0.853,2.242-2.507,2.242-4.037c0-2.181-1.795-4.618-4.198-4.618S5.921,4.594,5.921,6.775c0,1.53,0.884,3.185,2.242,4.037c-3.222,0.865-5.6,3.807-5.6,7.298c0,0.23,0.189,0.42,0.42,0.42h14.273c0.23,0,0.42-0.189,0.42-0.42C17.676,14.619,15.297,11.677,12.075,10.812 M6.761,6.775c0-2.162,1.773-3.778,3.358-3.778s3.359,1.616,3.359,3.778c0,2.162-1.774,3.778-3.359,3.778S6.761,8.937,6.761,6.775 M3.415,17.69c0.218-3.51,3.142-6.297,6.704-6.297c3.562,0,6.486,2.787,6.705,6.297H3.415z'></path>"
            " </svg> Seu user &colon; "+SaveUSER+"
        " </div>"
        " <div class='forms'>"
            " <div class='BackSub'>"
"<form action = /set>"
    " <div class='tittle'>Projeto TCC Fecap</div>"
    " <div class='sub-tittle'>Controle dos Horarios</div>"
    " <p></p>"
    " <center>"

```

" <svg class='svg-icon' viewBox='0 0 20 20'>"

" <path d='M10.25,2.375c-4.212,0-7.625,3.413-7.625,7.625s3.413,7.625,7.625,7.625s7.625-3.413,7.625-7.625S14.462,2.375,10.25,2.375M10.651,16.811v-0.403c0-0.221-0.181-0.401-0.401-0.401s-0.401,0.181-0.401,0.401v0.403c-3.443-0.201-6.208-2.966-6.409-6.409h0.404c0.22,0,0.401-0.181,0.401-0.401s4.063,9.599,3.843,9.599H3.439C3.64,6.155,6.405,3.391,9.849,3.19v0.403c0,0.22,0.181,0.401,0.401,0.401s0.401-0.181,0.401-0.401V3.19c3.443,0.201,6.208,2.965,6.409,6.409h-0.404c-0.22,0-0.4,0.181-0.4,0.401s0.181,0.401,0.4,0.401h0.404C16.859,13.845,14.095,16.609,10.651,16.811M12.662,12.412c-0.156,0.156-0.409,0.159-0.568,0l-2.127-2.129C9.986,10.302,9.849,10.192,9.849,10V5.184c0-0.221,0.181-0.401,0.401-0.401s0.401,0.181,0.401,0.401v4.651l2.011,2.008C12.818,12.001,12.818,12.256,12.662,12.412'></p>ath>"

" </svg>"

"1&#186 Horario <input type='time' name = 'input3' class='Time' value = ''+SaveH1+'''>"

"<p></p>"

"<svg class='svg-icon' viewBox='0 0 20 20'>"

" <path d='M10.25,2.375c-4.212,0-7.625,3.413-7.625,7.625s3.413,7.625,7.625,7.625s7.625-3.413,7.625-7.625S14.462,2.375,10.25,2.375M10.651,16.811v-0.403c0-0.221-0.181-0.401-0.401-0.401s-0.401,0.181-0.401,0.401v0.403c-3.443-0.201-6.208-2.966-6.409-6.409h0.404c0.22,0,0.401-0.181,0.401-0.401s4.063,9.599,3.843,9.599H3.439C3.64,6.155,6.405,3.391,9.849,3.19v0.403c0,0.22,0.181,0.401,0.401,0.401s0.401-0.181,0.401-0.401V3.19c3.443,0.201,6.208,2.965,6.409,6.409h-0.404c-0.22,0-0.4,0.181-0.4,0.401s0.181,0.401,0.4,0.401h0.404C16.859,13.845,14.095,16.609,10.651,16.811M12.662,12.412c-0.156,0.156-0.409,0.159-0.568,0l-2.127-2.129C9.986,10.302,9.849,10.192,9.849,10V5.184c0-0.221,0.181-0.401,0.401-0.401s0.401,0.181,0.401,0.401v4.651l2.011,2.008C12.818,12.001,12.818,12.256,12.662,12.412'></p>ath>"

"</svg>"

"2&#186 Horario <input type='time' name = 'input4' class='Time' value = ''+SaveH2+'''>"

"<p></p>"

"<svg class='svg-icon' viewBox='0 0 20 20'>"

" <path d='M10.25,2.375c-4.212,0-7.625,3.413-7.625,7.625s3.413,7.625,7.625,7.625s7.625-3.413,7.625-7.625S14.462,2.375,10.25,2.375M10.651,16.811v-0.403c0-0.221-0.181-0.401-0.401-0.401s-0.401,0.181-0.401,0.401v0.403c-3.443-0.201-6.208-2.966-6.409-6.409h0.404c0.22,0,0.401-0.181,0.401-0.401s4.063,9.599,3.843,9.599H3.439C3.64,6.155,6.405,3.391,9.849,3.19v0.403c0,0.22,0.181,0.401,0.401,0.401s0.401-0.181,0.401-0.401V3.19c3.443,0.201,6.208,2.965,6.409,6.409h-0.404c-0.22,0-0.4,0.181-0.4,0.401s0.181,0.401,0.4,0.401h0.404C16.859,13.845,14.095,16.609,10.651,16.811M12.662,12.412c-0.156,0.156-0.409,0.159-0.568,0l-2.127-2.129C9.986,10.302,9.849,10.192,9.849,10V5.184c0-0.221,0.181-0.401,0.401-0.401s0.401,0.181,0.401,0.401v4.651l2.011,2.008C12.818,12.001,12.818,12.256,12.662,12.412'></p>ath>"

```

"</svg>"

"3&#186 Horário <input type='time' name = 'input5' class='Time' value = ''+SaveH3+'>"

"<p></p>"

"<svg class='svg-icon' viewBox='0 0 20 20'>"

  "<path d='M10.25,2.375c-4.212,0-7.625,3.413-7.625,7.625s3.413,7.625,7.625,7.625s7.625-
3.413,7.625-7.625S14.462,2.375,10.25,2.375M10.651,16.811v-0.403c0-0.221-0.181-0.401-0.401-
0.401s-0.401,0.181-0.401,0.401v0.403c-3.443-0.201-6.208-2.966-6.409-6.409h0.404c0.22,0,0.401-
0.181,0.401-
0.401s4.063,9.599,3.843,9.599H3.439C3.64,6.155,6.405,3.391,9.849,3.19v0.403c0,0.22,0.181,0.401,
0.401,0.401s0.401-0.181,0.401-0.401V3.19c3.443,0.201,6.208,2.965,6.409,6.409h-0.404c-0.22,0-
0.4,0.181-0.4,0.401s0.181,0.401,0.4,0.401h0.404C16.859,13.845,14.095,16.609,10.651,16.811
M12.662,12.412c-0.156,0.156-0.409,0.159-0.568,0l-2.127-
2.129C9.986,10.302,9.849,10.192,9.849,10V5.184c0-0.221,0.181-0.401,0.401-
0.401s0.401,0.181,0.401,0.401v4.651l2.011,2.008C12.818,12.001,12.818,12.256,12.662,12.412'></p
ath>"

"</svg>"

"4&#186 Horário <input type='time' name = 'input6' class='Time' value = ''+SaveH4+'>"

"<p></p>"

"</center>"

"<button value='Submit' class='Enviar'>Enviar</button>"

"</form>"

"</div>"

"</div>"

"</div>"

"</div>"

"</body>"

"</html>");

});

```

```

server.onNotFound(notFound); // se não for encontrado, chama a função notFound

```

```

server.begin(); // inicializa o servidor

```

```

timeClient.begin();// inicializa a função de tempo

```



```
timeClient.setTimeOffset(0); // Define uma data que é combinada com uma hora do dia com base em um relógio de 24 horas
```

```
}
```

```
void loop() {
```

```
timeClient.update(); // vai atualizar o horário
```

```
currentHour = timeClient.getHours(); // traz as horas do cliente
```

```
currentMinute = timeClient.getMinutes(); // traz os minutos do cliente
```

```
int currentSecond = timeClient.getSeconds(); // traz os segundos do cliente
```

```
if (currentHour == 3) // adaptação ao meridiano de greenwich
```

```
{
```

```
currentHour = 0; // define o horário como zero
```

```
}
```

```
else if (currentHour == 2) // adaptação ao meridiano de greenwich
```

```
{
```

```
currentHour = 23; // define o horário como vinte e três
```

```
}
```

```
else if (currentHour == 1) // adaptação ao meridiano de greenwich
```

```
{
```

```
currentHour = 22; // define o horário como vinte e dois
```

```
}
```

```
else if (currentHour == 0) // adaptação ao meridiano de greenwich
```

```
{
```

```
currentHour = 21; // define o horário como vinte e um
```

```
}
```

```
else // Senão
{
    currentHour = currentHour - 3; // define como três horas a menos
}

int Time = currentHour * 100 + currentMinute; // define o tempo como a hora vezes cem mais minutos

if (Time == H1) // <<se time for igual a H1>>
{

    if (Debounce == true) { // <<se "Debounce" for "true" então>>

        Debounce = false; // <<Debounce vai ser falso>>

        Serial.println("Porta1"); // printa na tela

        digitalWrite(buzzer,HIGH); // <<Ativa a porta "buzzer">>

        myStepper.step(stepsPerRevolution); // definir uma posição de destino do Motor

        int Sec = 60 - currentSecond; // define uma variável do tipo inteira

        delay(Sec*1000); // <<Executa um delay de "Sec x 1000"

        digitalWrite(buzzer,LOW); // <<Desativa a porta "buzzer">>

        myStepper.step(-stepsPerRevolution); // definir uma posição de destino do Motor <<O contrario de stepsPerRevolution>>

        Debounce = true; // <<Debounce vai ser falso>>
```

```

}

}

if (Time == H2) // <<se time for igual a H2>>
{

if (Debounce == true) { // <<se "Debounce" for "true" então>>

Debounce = false; // <<Debounce vai ser falso>>

Serial.println("Porta2"); // printa na tela

digitalWrite(buzzer,HIGH); // <<Ativa a porta "buzzer">>

myStepper.step(stepsPerRevolution * 2); // definir uma posição de destino do Motor
<<stepsPerRevolution * 2>>

int Sec = 60 - currentSecond; // define uma variável do tipo inteira

delay(Sec*1000); // <<Executa um delay de "Sec x 1000"

digitalWrite(buzzer,LOW); // <<Desativa a porta "buzzer">>

myStepper.step(-stepsPerRevolution * 2); // definir uma posição de destino do Motor <<O contrario
de stepsPerRevolution.StepsPerRevolution * 2>>

Debounce = true; // <<Debounce vai ser falso>>

}

}

if (Time == H3) // <<se time for igual a H3>>

```

```

{

if (Debounce == true) { // <<se "Debounce" for "true" então>>

    Debounce = false; // <<Debounce vai ser falso>>

    Serial.println("Porta3"); // printa na tela

    digitalWrite(buzzer,HIGH); // <<Ativa a porta "buzzer">>

    myStepper.step(stepsPerRevolution * 3); // definir uma posição de destino do Motor
    <<stepsPerRevolution * 3>>

    int Sec = 60 - currentSecond; // define uma variável do tipo inteira

    delay(Sec*1000); // <<Executa um delay de "Sec x 1000"

    digitalWrite(buzzer,LOW); // <<Desativa a porta "buzzer">>

    myStepper.step(-stepsPerRevolution * 3); // definir uma posição de destino do Motor <<O contrario
    de stepsPerRevolution.StepsPerRevolution * 3>>

    Debounce = true; // <<Debounce vai ser falso>>

}

}

if (Time == H4) // <<se time for igual a H3>>

{

    if (Debounce == true) { // <<se "Debounce" for "true" então>>

```

```
Debounce = false; // <<Debounce vai ser falso>>
```

```
Serial.println("Porta4"); // printa na tela
```

```
digitalWrite(buzzer,HIGH); // <<Ativa a porta "buzzer">>
```

```
int Sec = 60 - currentSecond; // define uma variável do tipo inteira
```

```
delay(Sec*1000); // <<Executa um delay de "Sec x 1000">>
```

```
digitalWrite(buzzer,LOW); // <<Desativa a porta "buzzer">>
```

```
Debounce = true; // <<Debounce vai ser falso>>
```

```
}
```

```
}
```

```
stepper.run(); // Move o motor um passo de cada vez
```

```
}
```