```
Login Code:
                                                        <label>Password</label>
<?php include('server.php') ?>
                                                                      <input
<!DOCTYPE html>
                                                type="password" name="password">
<html>
                                                               </div>
<head>
                                                               <div class="input-group">
       <title>Log In</title>
                                                                      <but
                                                 type="submit" class="btn btn-success"
       k rel="stylesheet"
                                                name="login_user">Login</button>
type="text/css" href="style.css">
                                                               </div>
</head>
                                                               >
<body>
                                                                      Don't have an
                                                 account? <a href="register.php">Sign
       <div class="header">
                                                 up</a>
    <h2>Log In</h2>
                                                               </div>
                                                        </form>
       <form method="post"
action="login.php">
                                                 </body>
                                                 </html>
              <?php include('errors.php');</pre>
?>
                                                 Get Status:
              <div class="input-group">
                                                 <?php
                                                   include_once('server.php');
       <label>Username</label>
                     <input type="text"</pre>
                                                   // Check connection
name="username" >
                                                   if ($conn->connect_error) {
              </div>
                                                     die("Connection failed: " . $conn-
             <div class="input-group">
                                                >connect_error);
                                                   }
```

```
padding: 8px;
date_default_timezone_set("Asia/Karachi");
  $device_name =
                                                   .table_titles {
$_GET['device_name'];
                                                   border: 1px solid #dddddd;
                                                   text-align: left;
  $sql
             = "SELECT device_status
FROM devices_status WHERE
                                                   padding: 8px;
device_name='$device_name'";
  $result
              = $conn->query($sql);
                                                   .form-inline{
  if (\$result->num rows > 0) {
                                                       width: 47%;
    while($row = $result->fetch_assoc())
                                                       height: auto;
     {
                                                       color: black;
       echo $row['device_status'];
                                                       background-color: whitesmoke;
     }
                                                       text-align: center;
  } else {
                                                       padding: 10px;
    echo "Error:" . $sql . "<br>" . $conn-
                                                     }
>error;
                                                   .submit{
  }
                                                     padding: 5px;
                                                          font-size: 13px;
  $conn->close();
                                                          color: white;
?>
                                                          background: #ADD8E6;
                                                          border: none;
Live data:
                                                          border-radius: 5px;
<!DOCTYPE html>
                                                     }
<html>
                                                   .header {
<head>
                                                          width: 45%;
<style type="text/css">
                                                     height: 15px;
.table_titles {
                                                          margin: 10px auto 0px;
 border: 1px solid #dddddd;
                                                          color: white;
 text-align: left;
```

```
background: #5F9EA0;
                                           ?>
      text-align: center;
      border: 1px solid #B0C4DE;
                                           <center>
      border-bottom: none;
                                             <a href="index.php">Go Back to
                                           Previous Page</a>
      border-radius: 10px 10px 0px 0px;
                                             <div class="header">
      padding: 20px;
                                                       <font size="5px">Data From
}
                                           Wireless Sensor Network</font>
    .table_cells_odd{
                                                 </div>
     border: 1px solid #dddddd;
                                           <form method="post" action="search.php"</pre>
                                           class="form-inline">
 text-align: left;
 padding: 8px;
                                            <div>
                                              <label>Search By Date</label>
                                              <input type="date" name="date_from"</pre>
    .table_cells_even{
                                           value="<?php echo date('Y-m-d'); ?>" />
     border: 1px solid #dddddd;
                                            <button type="submit" class="submit"
      text-align: left;
                                           name="search">Search</button>
      padding: 8px;
                                               </div>
      background-color: #dddddd;
                                           </form>
                                           <table border="0" cellspacing="0"
                                           cellpadding="4">
table {
                                           border: 1px solid #dddddd;
                                           ID
}
                                           Temperature(in
body { font-family: "Trebuchet MS",
                                           ^{\circ}C)
Courier; }
                                           Humidity(in
</style>
                                           %)
<body>
                                           LPG(in ppm)
<?php
                                           Time
$url=$_SERVER['REQUEST_URI'];
                                           Date
header("Refresh: 5; URL=$url"); // Refresh
                                           the webpage every 5 seconds
```

```
<?php
                                           else
include('connection.php');
  $s = "select * from temps";
                                           $css_class=' class="table_cells_even";
$result = mysqli_query($con,$s);
                                           $oddrow = !$oddrow;
$count = mysqli num rows($result);
$p=$count/15;
$pn=ceil($p);
$page="";
                                           echo "";
$page=$_GET['page'];
                                           echo "" .$row['id'] .
                                           "";
 if($page=="" || $page=="1")
                                           echo "" .$row['temp'] .
                                           "";
    $page1=0;
                                           echo "" .$row['humidity']
                                           . "";
    $page1=0;
                                           echo "" .$row['lpg'] .
  }
                                           "";
  else{
                                           echo "" .$row['time'] .
    $page1=($page*15)-15;
                                           "";
  }
                                           echo "" .$row['dated'] .
                                           "";
$rec=mysqli query($con,"SELECT *
FROM temps ORDER BY id DESC limit
                                           echo "";
$page1,15");
                                           }
while($row = mysqli_fetch_array($rec))
$oddrow = true;
                                           ?>
while($row = mysqli_fetch_array($rec))
                                           </center>
{
                                           <?php for($b=1; $b<=$pn; $b++)
if ($oddrow)
{
                                            ?> <a href="livedata.php?page=<?php"
$css_class='class="table_cells_odd"';
                                           echo $b; ?>" style="text-decoration:none"
                                           ><?php echo $b.""; ?></a><?php
}
```

```
}
  // Close the connection
mysqli_close($con);
  ?>
                                                   if(isset($_GET['device_status']))
</body>
</html>
                                                   {
                                                     $status = $_GET['device_status'];
Status Page:
                                                     if(\text{status}==1)
                                                     $update_status = 0;
<!DOCTYPE html>
<html lang="en">
                                                     elseif($status==0)
  <head>
              <meta charset="UTF-8"/>
                                                     $update_status = 1;
    <meta http-equiv="X-UA-Compatible"
content="IE=edge,chrome=1">
              <meta name="viewport"
                                                     $query = "UPDATE devices_status
content="width=device-width, initial-
                                                 SET device_status='$update_status'
scale=1.0">
                                                 WHERE device_name='home_sensor'";
    <title>Controlling Page</title>
                                                     $conn->query($query);
                                                   }
    <link rel="stylesheet" type="text/css"</pre>
href="css/style.css"/>
  </head>
  <body>
                                                   $get_status_sql
                                                                         = "SELECT
  <?php
                                                 device_status FROM devices_status
                                                 WHERE device_name='home_sensor'";
  include_once('server.php');
```

```
= $conn-
>query($get_status_sql);
                                                 style="text-align: center; padding: 30px;
                                                 font-size: 35px; font-family:
                                                 fantasy;">Control Sensor Data with PHP
                                                 and MySQL</h1>
  if (sresult->num\_rows > 0) {
  while($row = $result->fetch_assoc())
                                                          <div class="switch demo3">
    $current_status = $row['device_status'];
                                                             <input
                                                 onClick="location.href='<?php echo
    if($current_status == 1)
                                                 $_SERVER['PHP_SELF'];
                                                 ?>?device_status=<?php echo
                                                 $current_status; ?>" type="checkbox"
       $checked = 'checked';
                                                 value="<?php echo $current_status;?>"
                                                 <?php echo $checked;?>/>
    }
    else
       cecked = ";
                                                        <label><i></i></label>
    }
                                                                             </div>
                                                 <h4 style="text-align: center;">&copyAll
                                                 rights reserved by &nbsp<a
                                                 href="http://mte.ruet.ac.bd/"
  ?>
                                                 target="_blank">Dept. of Mechatronics
                                                 Engineering, RUET</a></h4>
                                                                      </section>
    <div class="container">
                                                      </div>
                     <section
                                                   </body>
class="main">
                                                 </html>
```

<h1

\$result

```
Server:
                                                  ?>
<?php
                                                  <!DOCTYPE html>
  $servername = "localhost";
                                                  <html>
  $username = "root";
                                                  <head>
  $password = "";
                                                    <meta charset="UTF-8"/>
  $dbname = "temperature";
                                                    <meta http-equiv="X-UA-Compatible"
  // Create connection
                                                  content="IE=edge,chrome=1">
   $conn
                                                    <meta name="viewport"
       mysqli_connect($servername,
                                                  content="width=device-width, initial-
$username,$password);
                                                  scale=1.0">
  $connection =
                                                         <title>Home</title>
mysqli_select_db($conn,$dbname);
                                                         <link rel="stylesheet"</pre>
?>
                                                  type="text/css" href="style.css">
                                                     <style type="text/css">
Index:
                                                       .table_cells_odd{
<?php
                                                        border: 1px solid #dddddd;
       session_start();
                                                   text-align: left;
                                                   padding: 8px;
       if (!isset($_SESSION['username'])) {
                                                       }
              $_SESSION['msg'] = "You
                                                       .table_cells_even{
must log in first";
                                                        border: 1px solid #dddddd;
              header('location:home.php');
                                                         text-align: left;
       }
                                                         padding: 8px;
       if (isset($_GET['logout'])) {
                                                         background-color: #dddddd;
              session_destroy();
                                                       }
       unset($_SESSION['username']);
                                                    </style>
              header("location:
home.php");
                                                  </head>
```

}

```
<body>
                                                   include_once('server2.php');
       <div class="header">
                                                   //Light_Code
              <h2>Home Page</h2>
       </div>
                                                     if(isset($_GET['light_status']))
                                                    {
  <!-- notification message -->
              <?php if
                                                     $status = $_GET['light_status'];
(isset($_SESSION['success'])): ?>
                                                     if($status==1)
              <?php endif ?>
                                                     {
                                                      $update_status = 1;
              <!-- logged in user
information -->
                                                     elseif($status==0)
              <?php if
(isset($_SESSION['username'])): ?>
                     <div class="content">
                                                      \sup_{x \in \mathbb{R}} \sup_{x \in \mathbb{R}} 0;
         Welcome <strong><?php echo
$_SESSION['username']; ?></strong>
                                                     $query = "UPDATE light_status SET
                      <a
                                                 light_status='$update_status' WHERE
href="index.php?logout='1" style="color:
                                                 name='light_sensor'";
red;">logout</a> 
                                                     $conn->query($query);
              <?php endif ?>
  </div>
<div class="content">
  Now you can
                                                  ?>
control your device status from <a
href="http://localhost/device_controll/status
                                                  <div class="content">
_page.php" target="_blank" style="color:
                                                 <button type="button" ><a
red;">here</a> to prevent auto collection of
                                                 href="index.php?light status=1"> RELAY
sensors data. If you turn it off, controller
                                                 ON</a></button>
data will not be saved to the database.
                                                 <button type="button" ><a
</div>
                                                 href="index.php?light_status=0"> RELAY
<?php
                                                 OFF</a></button><br>
```

```
$query="SELECT min(temp) as
Sensor value is : <span
id="ADCValue">0</span><br>
                                        'lowtemp' FROM temps";
                                          $res=mysqli_query($con, $query);
 LED State is : <span
id="LEDState">NA</span>
                                          $data= mysqli_fetch_array($res);
                                          $field2a= $data['lowtemp'];
  </div>
                                            $query="SELECT avg(temp) as
                                        'avgtemp' FROM temps";
<center> 
                                          $res=mysqli_query($con, $query);
cellpadding="4">
                                          $data= mysqli_fetch_array($res);
$field3a= $data['avgtemp'];
Name
Highest Value
                                                ?>
Lowest Value
                                                 Temperature 
Average
Value
                                        class="table_cells_even"><?php echo "
&nbsp&nbsp $field1a" ?>
  <?php
                                                 <?php echo "&nbsp&nbsp $field2a"</pre>
                                        ?>
require_once('connection.php');
$s = "select * from temps";
                                        class="table_cells_even"><?php echo
$result = mysqli_query($con,$s);
                                        "&nbsp&nbsp $field3a" ?>
$count = mysqli num rows($result);
                                                 echo "Total Number of Stored Data: "
                                          <?php
.$count. " ";
                                            $query="SELECT max(humidity) as
  $query="SELECT max(temp) as
                                        'highhum' FROM temps";
'hightemp' FROM temps";
                                          $res=mysqli_query($con, $query);
 $res=mysqli_query($con, $query);
                                          $data= mysqli_fetch_array($res);
 $data= mysqli_fetch_array($res);
                                          $field1b= $data["highhum"];
```

\$field1a= \$data["hightemp"];

```
$query="SELECT min(humidity) as
                                            $res=mysqli_query($con, $query);
'lowhum' FROM temps";
                                             $data= mysqli_fetch_array($res);
  $res=mysqli_query($con, $query);
                                            $field2c= $data["lowlpg"];
  $data= mysqli_fetch_array($res);
                                               $query="SELECT avg(lpg) as 'avglpg'
                                          FROM temps";
  $field2b= $data["lowhum"];
    $query="SELECT avg(humidity) as
                                             $res=mysqli_query($con, $query);
'avghum' FROM temps";
                                             $data= mysqli_fetch_array($res);
  $res=mysqli_query($con, $query);
                                             $field3c= $data["avglpg"];
  $data= mysqli_fetch_array($res);
  $field3b= $data["avghum"];
                                                   ?>
       ?> 
                                                     LPG 
Humidity 
                                                     <td
                                           class="table_cells_even"><?php echo
class="table_cells_odd"><?php echo
                                           "&nbsp&nbsp $field1c" ?>
"&nbsp&nbsp $field1b" ?>
                                           class="table_cells_even"><?php echo
            <td
class="table_cells_odd"><?php echo
                                           "&nbsp&nbsp $field2c" ?>
"&nbsp&nbsp $field2b" ?> 
                                                     <td
                                           class="table_cells_even"><?php echo
            <?php echo "&nbsp&nbsp $field3b"
                                           "&nbsp&nbsp $field3c" ?>
?>
                                                     "
  <?php
                                            </center>
    $query="SELECT max(lpg) as
                                           <center><a href="livedata.php?page=1"</pre>
'highlpg' FROM temps";
                                           style"color: blue;"> See Live Data
  $res=mysqli_query($con, $query);
                                          Here</a></center>
  $data= mysqli_fetch_array($res);
  $field1c= $data["highlpg"];
                                           <div id="header-
                                           $query="SELECT min(lpg) as 'lowlpg'
                                           rights reserved by &nbsp<a
FROM temps";
                                           href="http://mte.ruet.ac.bd/"
```

```
target="_blank">Dept. of Mechatronics
                                                      color: #222;
Engineering, RUET</a>
                                                      font-weight: 600;
   </div>
                                                      line-height: 1.3;
</body>
</html>
                                                    h2 {
CSS Codes:
                                                      margin-top: 1.3em;
html {
                                                    }
  background: #e6e9e9;
  background-image: linear-
                                                    a {
gradient(270deg, rgb(230, 233, 233) 0%,
rgb(216, 221, 221) 100%);
                                                      color: #0083e8;
  -webkit-font-smoothing: antialiased;
}
                                                    b, strong {
                                                      font-weight: 600;
body {
                                                    }
  background: #fff;
  box-shadow: 0 0 2px rgba(0, 0, 0, 0.06);
  color: #545454;
                                                    samp {
                                                      display: none;
  font-family: "Helvetica Neue", Helvetica,
Arial, sans-serif;
                                                    }
  font-size: 16px;
  line-height: 1.5;
                                                    img {
  margin: 0 auto;
                                                      animation: colorize 2s cubic-bezier(0, 0,
                                                    .78, .36) 1;
  max-width: 800px;
                                                      background: transparent;
  padding: 2em 2em 4em;
                                                      border: 10px solid rgba(0, 0, 0, 0.12);
}
                                                      border-radius: 4px;
h1, h2, h3, h4, h5, h6 {
                                                      display: block;
                                                      margin: 1.3em auto;
```

```
max-width: 95%;
                                                  <body>
}
                                                    <h1>GETTING STARTED WITH
                                                BRACKETS</h1>
@keyframes colorize {
                                                    <h2>This is your guide!</h2>
  0% {
    -webkit-filter: grayscale(100%);
                                                    <!--
    filter: grayscale(100%);
                                                       MADE WITH <3 AND
  }
                                                JAVASCRIPT
  100% {
                                                    -->
    -webkit-filter: grayscale(0%);
    filter: grayscale(0%);
                                                    >
  }
                                                       Welcome to Brackets, a modern
                                                open-source code editor that understands
}
                                                web design. It's a lightweight,
                                                       yet powerful, code editor that blends
Index HTML:
                                                visual tools into the editor so you get the
                                                right amount of help
<!DOCTYPE html>
                                                       when you want it.
<html>
                                                    <head>
                                                    <!--
    <meta charset="utf-8">
                                                       WHAT IS BRACKETS?
    <meta http-equiv="X-UA-Compatible"
content="IE=edge">
                                                    -->
    <title>GETTING STARTED WITH
                                                    >
BRACKETS</title>
                                                       <em>Brackets is a different type of
    <meta name="description"
                                                editor.</em>
content="An interactive getting started
                                                       Brackets has some unique features
guide for Brackets.">
                                                like Quick Edit, Live Preview and others
    link rel="stylesheet"
                                                that you may not find in other
href="main.css">
```

</head>

editors. Brackets is written in JavaScript, HTML and CSS. That means that most of you using Brackets

have the skills necessary to modify and extend the editor. In fact, we use Brackets every day to build

Brackets. To learn more about how to use the key features, read on.

<!--

GET STARTED WITH YOUR OWN FILES

-->

<h3>Projects in Brackets</h3>

>

In order to edit your own code using Brackets, you can just open the folder containing your files.

Brackets treats the currently open folder as a "project"; features like Code Hints, Live Preview and

Quick Edit only use files within the currently open folder.

<samp>

Once you're ready to get out of this sample project and edit your own code, you can use the dropdown

in the left sidebar to switch folders. Right now, the dropdown says "Getting Started" - that's the

folder containing the file you're looking at right now. Click on the dropdown and choose "Open Folder..."

to open your own folder.

You can also use the dropdown later to switch back to folders you've opened previously, including this

sample project.

</samp>

<!--

THE RELATIONSHIP BETWEEN HTML, CSS AND JAVASCRIPT

-->

<h3>Quick Edit for CSS and JavaScript</h3>

>

No more switching between documents and losing your context. When editing HTML, use the

<kbd>Cmd/Ctrl + E</kbd> shortcut
to open a quick inline editor that displays all
the related CSS.

Make a tweak to your CSS, hit <kbd>ESC</kbd> and you're back to editing HTML, or just leave the

CSS rules open and they'll become part of your HTML editor. If you hit <kbd>ESC</kbd> outside of

a quick inline editor, they'll all collapse. Quick Edit will also find rules defined in LESS and

SCSS files, including nested rules.

<samp>

Want to see it in action? Place your cursor on the <!-- <samp> --> tag above and press

<kbd>Cmd/Ctrl + E</kbd>. You
should see a CSS quick editor appear above,
showing the CSS rule that

applies to it. Quick Edit works in class and id attributes as well. You can use it with your

LESS and SCSS files also.

You can create new rules the same way. Click in one of the <!-- <p> --> tags above and press

<kbd>Cmd/Ctrl + E</kbd>. There
are no rules for it right now, but you can
click the New Rule

button to add a new rule for <!-- <p>-->.

</samp>

<img alt="A screenshot showing
CSS Quick Edit" src="screenshots/quickedit.png" />

>

You can use the same shortcut to edit other things as well - like functions in JavaScript,

colors, and animation timing functions - and we're adding more and more all the time.

>

For now inline editors cannot be nested, so you can only use Quick Edit while the cursor

is in a "full size" editor.

<!--

LIVE PREVIEW

-->

<h3>Preview HTML and CSS changes live in the browser</h3>

You know that "save/reload dance" we've been doing for years? The one where you make changes in

your editor, hit save, switch to the browser and then refresh to finally see the result?

With Brackets, you don't have to do that dance.

Brackets will open a live connection to your local browser and push HTML and CSS updates as you

type! You might already be doing something like this today with browserbased tools, but with Brackets

there is no need to copy and paste the final code back into the editor. Your code runs in the

browser, but lives in your editor!

<h3>Live Highlight HTML elements and CSS rules</h3>

>

Brackets makes it easy to see how your changes in HTML and CSS will affect the page. When your cursor

is on a CSS rule, Brackets will highlight all affected elements in the browser. Similarly, when editing

an HTML file, Brackets will highlight the corresponding HTML elements in the browser.

<samp>

If you have Google Chrome installed, you can try this out yourself. Click on the lightning bolt

icon in the top right corner of your Brackets window or hit <kbd>Cmd/Ctrl + Alt + P</kbd>. When

Live Preview is enabled on an HTML document, all linked CSS documents can be edited in real-time.

The icon will change from gray to gold when Brackets establishes a connection to your browser.

Now, place your cursor on the <!-- --> tag above. Notice the blue highlight that appears

around the image in Chrome. Next, use <kbd>Cmd/Ctrl + E</kbd> to open up the defined CSS rules.

Try changing the size of the border from 10px to 20px or change the background

color from "transparent" to "hotpink". If you have Brackets and your browser running side-by-side, you

will see your changes instantly reflected in your browser. Cool, right?

</samp>

Today, Brackets only supports Live Preview for HTML and CSS. However, in the current version, changes to

JavaScript files are automatically reloaded when you save. We are currently working on Live Preview

support for JavaScript. Live previews are also only possible with Google Chrome, but we hope

to bring this functionality to all major browsers in the future.

<h3>Quick View</h3>

For those of us who haven't yet memorized the color equivalents for HEX or RGB values, Brackets makes

it quick and easy to see exactly what color is being used. In either CSS or HTML, simply hover over any

color value or gradient and Brackets will display a preview of that color/gradient automatically. The

same goes for images: simply hover over the image link in the Brackets editor and it will display a

thumbnail preview of that image.

<samp>

To try out Quick View for yourself, place your cursor on the <!-- <body> --> tag at the top of this

document and press <kbd>Cmd/Ctrl + E</kbd> to open a CSS quick editor. Now simply hover over any of the

color values within the CSS. You can also see it in action on gradients by opening a CSS quick editor

on the <!-- <html> --> tag and hovering over any of the background image values. To try out the image preview, place your cursor over the screenshot image included earlier in this document.

</samp>

<h3>Need something else? Try an extension!</h3>

>

In addition to all the goodness that's built into Brackets, our large and growing community of

extension developers has built hundreds of extensions that add useful functionality. If there's

something you need that Brackets doesn't offer, more than likely someone has built an extension for

it. To browse or search the list of available extensions, choose File > Extension

Manager... and click on the "Available" tab. When you find an extension you want, just click

the "Install" button next to it.

<!--

LET US KNOW WHAT YOU THINK

-->

<h2>Get involved</h2>

Brackets is an open-source project. Web developers from around the world are contributing to build

a better code editor. Many more are building extensions that expand the capabilities of Brackets.

Let us know what you think, share your ideas or contribute directly to the project.

 $\langle ul \rangle$

Brackets.io

Brackets
Team Blog

B rackets on GitHub

Brackets Extension
Registry

Brackets Wiki

<1i>Brackets Developer Mailing List

@brackets on Twitter

Chat with Brackets developers
on IRC in href="http://webchat.freenode.net/?channels">href="http://webchat.freenode.net/?channels">href="http://webchat.freenode.net/?channels">href="http://webchat.freenode.net/?channels">href="http://webchat.freenode.net/?channels">href="http://webchat.freenode.net/?channels">href="http://webchat.freenode.net/?channels">href="http://webchat.freenode.net/?channels">href="http://webchat.freenode.net/?channels">href="http://webchat.freenode.net/?channels">href="http://webchat.freenode.net/?channels">href="http://webchat.freenode.net/?channels">href="http://webchat.freenode.net/?channels">href="http://webchat.freenode.net/?channels">http://webchat.freenode.net/?channels

]]]]]]]]]]]]]
[::::::	:::::]	
[::::::	::::::]	
::::::[[[[[[[:	:]]]]]]]::::::]	
[:::::[]:::::]	
[:::::[]:::::]	
[:::::[]:::::]	
[:::::[]:::::]	
[:::::[COI	DE THE WEB]:::::]

[:::::[http://brackets.io]:::::]
[:::::[]:::::]
[:::::[]:::::]
[:::::[]:::::]
[:::::[]:::::]

[:::::::]
[::::::::::]

-->

```
WiFi.begin(ssid, pwd);
Arduino Code:
For Fetching data into server:
#include <ESP8266HTTPClient.h>
                                                     //starting the server
#include <ESP8266WiFi.h>
                                                     server.begin();
#include <dht.h>
#define LED D4
#define MQ_PIN A0
                                                  void handleLED() {
// Setting up variables
                                                    String LEDState = "OFF";
int delay_time = 3000; // Its mean 3 seconds
wait to enter first record
                                                    String t_state =
                                                   get_device_status("light_sensor");
float get_lpg;
                                                    Serial.println(t_state);
                                                   if(t_state == "1")
//Access point credentials
                                                   {
const char* ssid
                    = "Asif";
                                                    digitalWrite(LED,HIGH); //LED ON
const char* pwd
                     = "18273645";
                                                    LEDState = "ON"; //Feedback parameter
String get_status_url =
"http://192.168.43.207/device_controll/get_s
                                                   }
tatus.php";
                                                   else
String add_data_url
"http://192.168.43.207/device_controll/add_
                                                   {
data.php";
                                                    digitalWrite(LED,LOW); //LED OFF
String light_data_url =
                                                    LEDState = "OFF"; //Feedback parameter
"http://192.168.43.207/main/get_state.php";
                                                   }}
WiFiServer server(80); // open port 80 for
server connection
                                                  void loop(){
void setup()
                                                     String device_status =
                                                   get_device_status("home_sensor");
 Serial.begin(115200); //initialise the serial
communication
                                                     delay(2000);
 delay(20);
                                                     WiFiClient client = server.available();
```

```
DHT.read11(dht_apin);
  get_temperature = DHT.temperature;
                                                      if(device_status=="1")
  get_humidity = DHT.humidity;
                                                      {
 float sensor_volt; //Define variable for
                                                       add_device_data(get_temperature,
                                                    get_humidity, get_lpg); //add sensor
sensor voltage
 float RS_gas; //Define variable for sensor
                                                      }
resistance
                                                      else
 float ratio: //Define variable for ratio
 float sensorValue = analogRead(MQ_PIN);
                                                       Serial.println("Device Status is going
//Read analog values of sensor
                                                    OFF");
 float m = -0.423; //Slope
                                                       }
 float b = 1.276; //Y-Intercept
 float R0 = 5.62; //Sensor Resistance in
                                                      delay(delay_time);
fresh air from previous code
 sensor\_volt = sensorValue*(5.0/1023.0);
//Convert analog values to voltage
                                                    }
 RS_gas = ((5.0*10.0)/sensor_volt)-10.0;
//Get value of RS in a gas
 ratio = RS_gas/R0; // Get ratio
                                                   ///This is the function that will get status of
RS_gas/RS_air
                                                    device that is On or Off
                                                    void add_device_data(float get_temperature,
 double ppm_log = (log10(ratio)-b)/m; //Get
                                                    float get_humidity,float get_lpg) // add
ppm value in linear scale according to the
                                                    sensor
the ratio value
                                                     {
 double ppm = pow(10, ppm_log);
//Convert ppm value to log scale
                                                        WiFiClient client = server.available();
 double percentage = ppm/10000; //Convert
to percentage
                                                        HTTPClient http;
 double get_lpg = ppm;
                                                        String url =
                                                    add_data_url+"?temp="+get_temperature+"
```

```
&humidity="+get_humidity+"&lpg="+get_l
pg; //add sensors
    http.begin(url);
                                                    }
    //GET method
    int httpCode = http.GET();
                                                  For controlling Actuator:
    String payload = http.getString();
                                                  #include <ESP8266WiFi.h>
    Serial.println(url);
                                                  #include <WiFiClient.h>
    Serial.println(payload);
                                                  #include <ESP8266WebServer.h>
    http.end();
                                                  #include "Asif.h" //Our HTML webpage
                                                  contents with javascripts
 }
                                                  #define MQ A0
                                                  int relay_1;
                                                  int relay_2;
String get_device_status(String
device_name)
                                                  #define LED D4 //On board LED
 {
                                                  //SSID and Password of your WiFi router
                                                  const char* ssid = "Asif";
    WiFiClient client = server.available();
                                                  const char* password = "18273645";
    HTTPClient http;
                                                  ESP8266WebServer server(80); //Server on
    String url =
                                                  port 80
get_status_url+"?device_name="+device_na
me;
                                                  void handleRoot() {
    http.begin(url);
                                                   String s = MAIN_page; //Read HTML
    int httpCode = http.GET();
                                                  contents
    String payload = http.getString();
                                                   server.send(200, "text/html", s); //Send web
    Serial.println(url);
                                                  page
    Serial.println(payload);
                                                  }
    return payload;
```

```
void handleADC() {
                                                  void setup(void){
 float MQ = analogRead(A0);
                                                   Serial.begin(115200);
 String ADCValue = String(MQ);
                                                   WiFi.begin(ssid, password); //Connect to
                                                  your WiFi router
                                                   Serial.println("");
server.send(200, "text/plane", ADCValue);
//Send ADC value only to client ajax request
}
                                                   //Onboard LED port Direction output
                                                   pinMode(LED,OUTPUT);
void handleLED() {
                                                   //pinMode(trigPin, OUTPUT);
String LEDState = "OFF";
                                                   //pinMode(echoPin, INPUT);
String t_state = server.arg("LEDstate");
                                                   // Wait for connection
//Refer xhttp.open("GET",
                                                   while (WiFi.status() !=
"setLED?LEDstate="+led, true);
                                                  WL_CONNECTED) {
Serial.println(t_state);
                                                     delay(500);
if(t_state == "1")
                                                     Serial.print(".");
                                                    }
 digitalWrite(LED,LOW); //LED ON
 LEDState = "ON"; //Feedback parameter
                                                   //If connection successful show IP address
                                                  in serial monitor
}
else
                                                   Serial.println("");
                                                   Serial.print("Connected to ");
 digitalWrite(LED,HIGH); //LED OFF
                                                   Serial.println(ssid);
 LEDState = "OFF"; //Feedback parameter
                                                   Serial.print("IP address: ");
                                                   Serial.println(WiFi.localIP()); //IP address
}
                                                  assigned to your ESP
server.send(200, "text/plane", LEDState);
//Send web page
                                                   server.on("/", handleRoot);
                                                                                 //Which
                                                  routine to handle at root location. This is
}
                                                  display page
```

```
server.on("/setLED", handleLED);
server.on("/readADC", handleADC);

server.begin();  //Start server
Serial.println("HTTP server started");
}

void loop(void){
  server.handleClient();  //Handle client requests
}
```