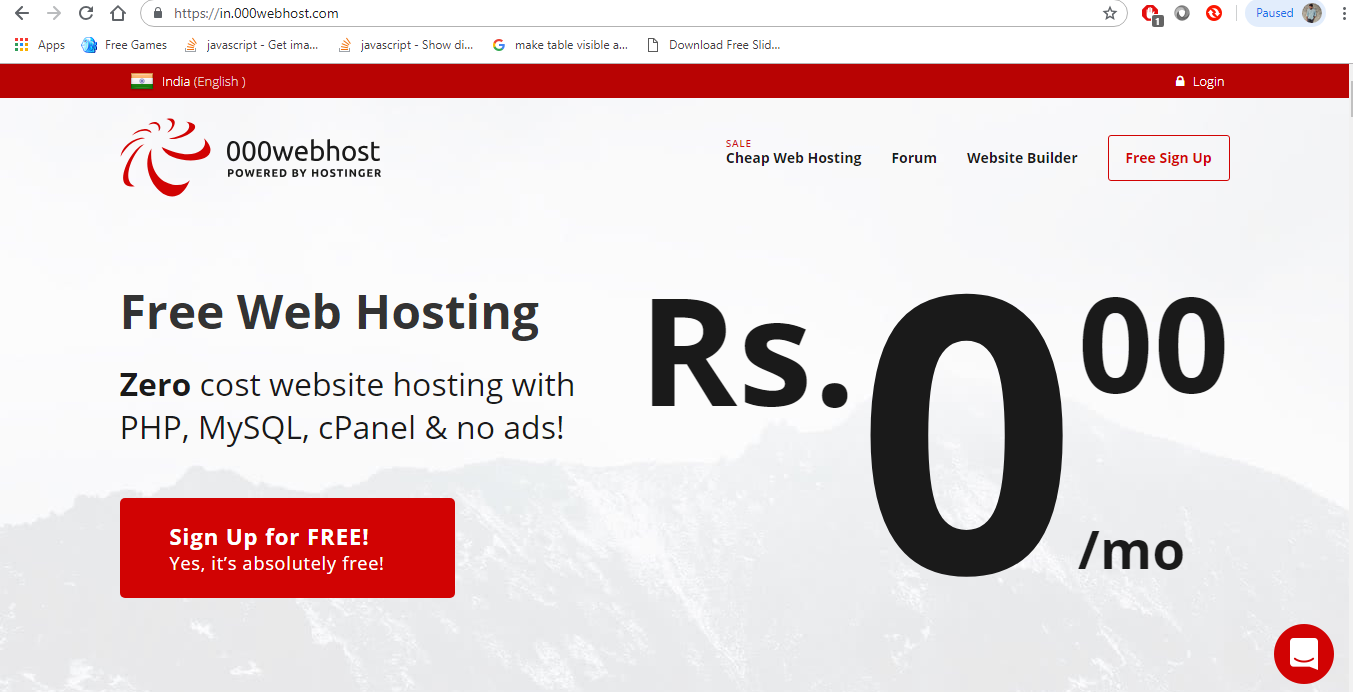
Monitor Temperature & Humidity – NodeMCU to Webserver

Step 1: Setting up the Webserver

Here we are using a online webhost called 000webhost which is a free online hosting

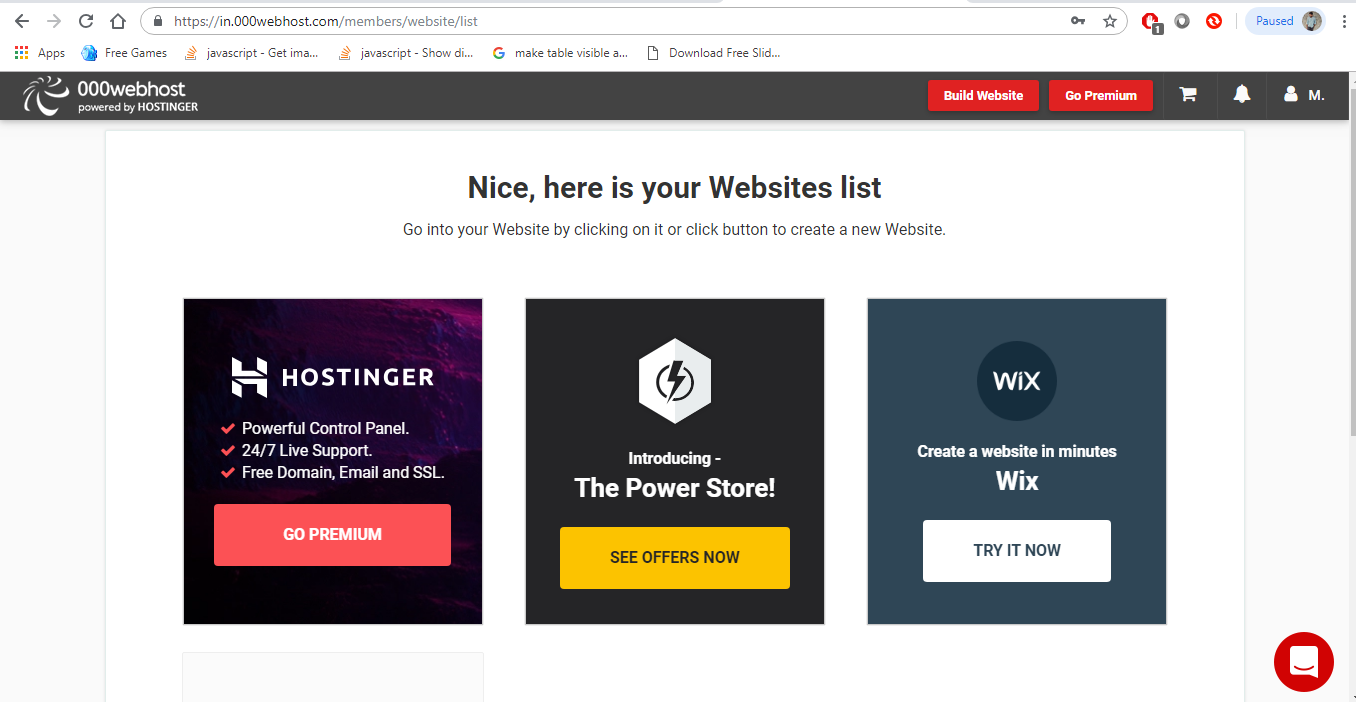
Firstly, go to <https://in.000webhost.com/>

The following page appears

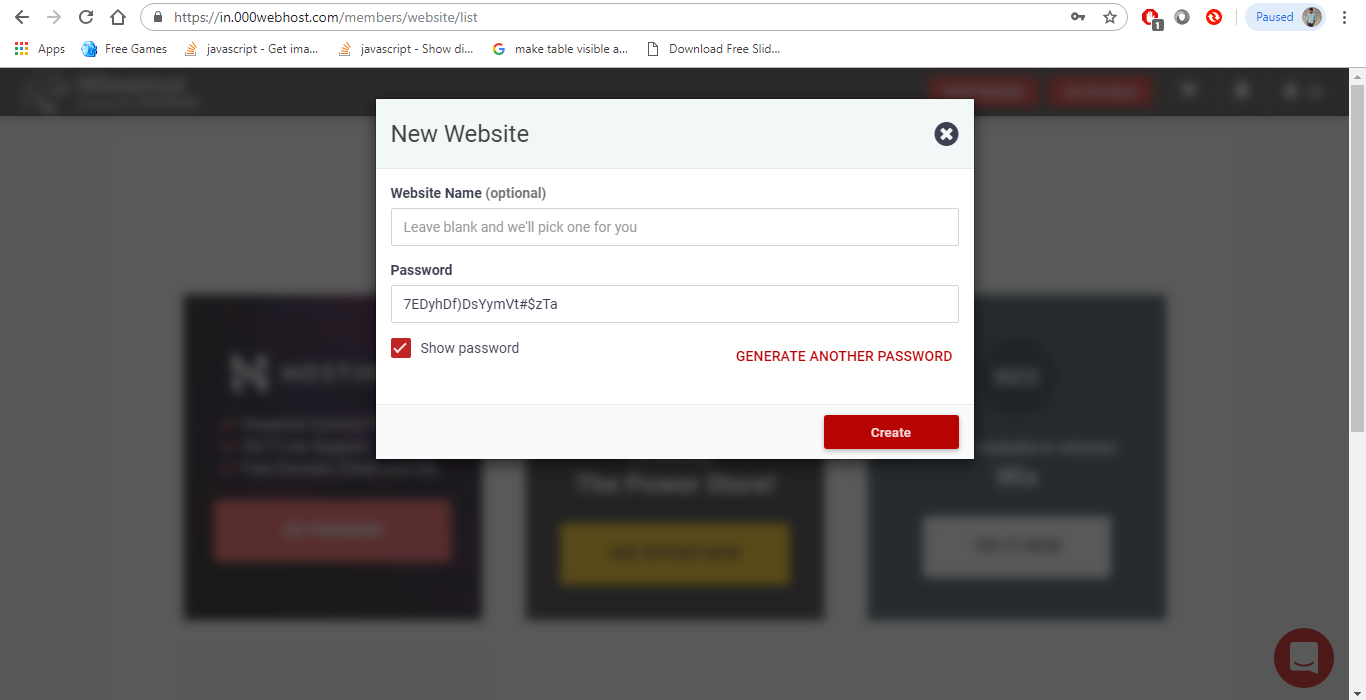


Now click on sign up and Register. once done login to the 000webhost.

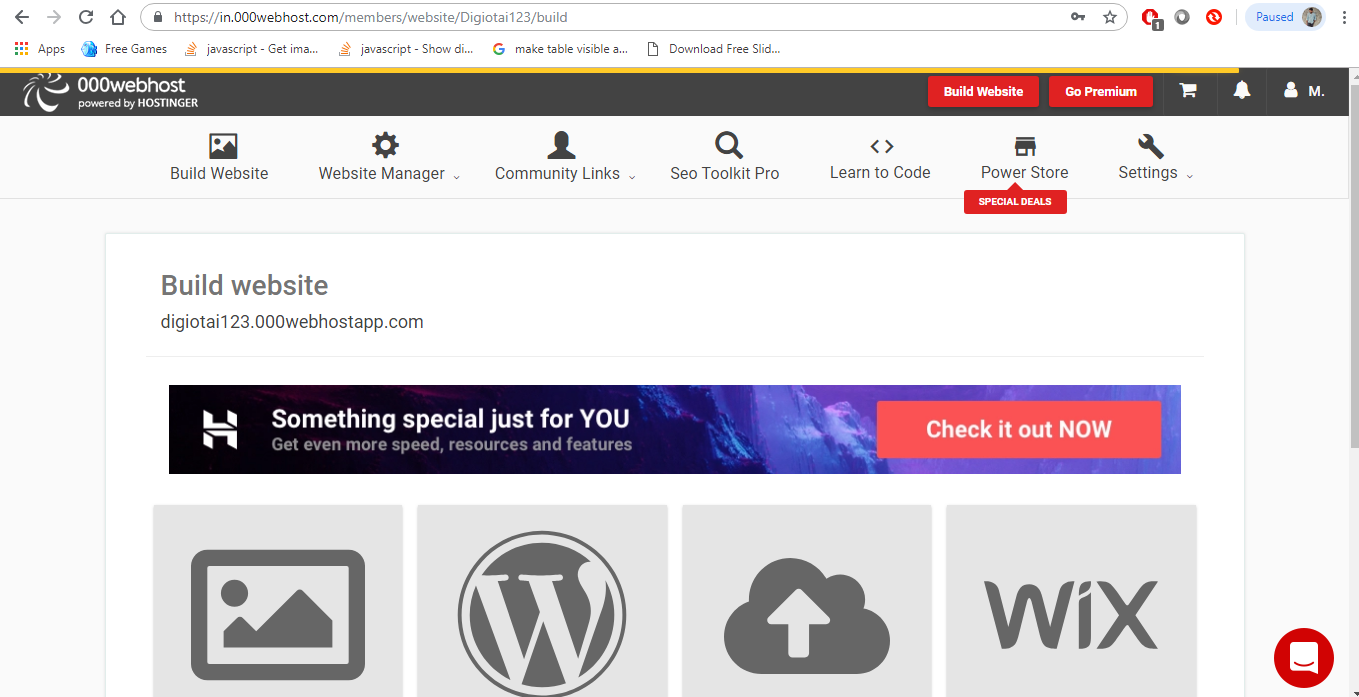
After login, the following page appears



Now click on Build Website

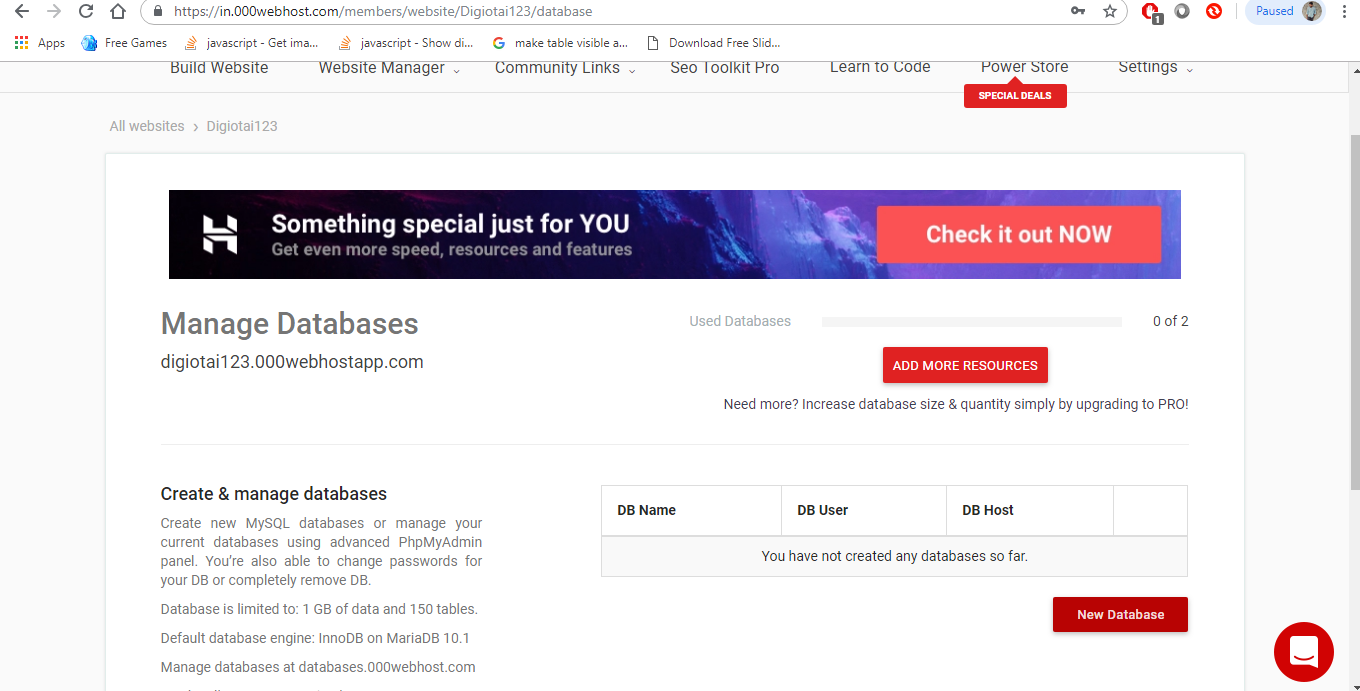


Enter the Website Name & Password & click on create, then the following tab appears

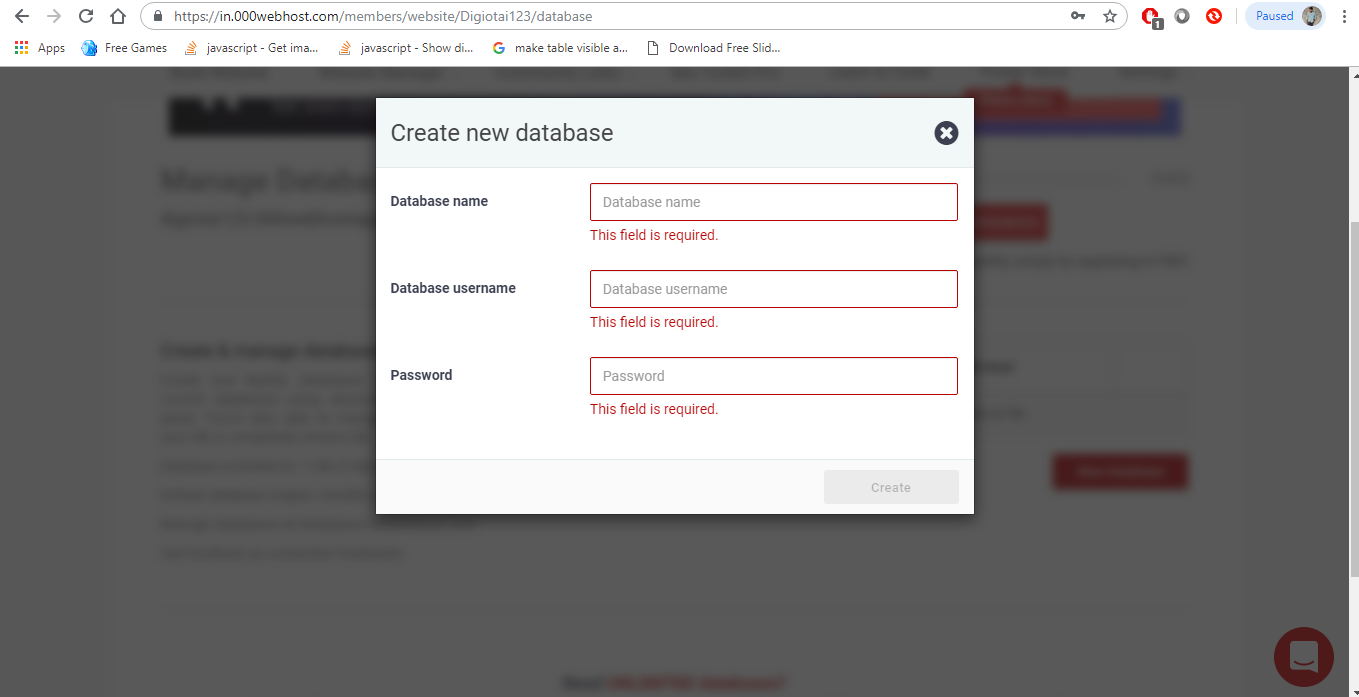


Then click on -> Website Manager -> Database Manager

After clicking on it, the following tab appears

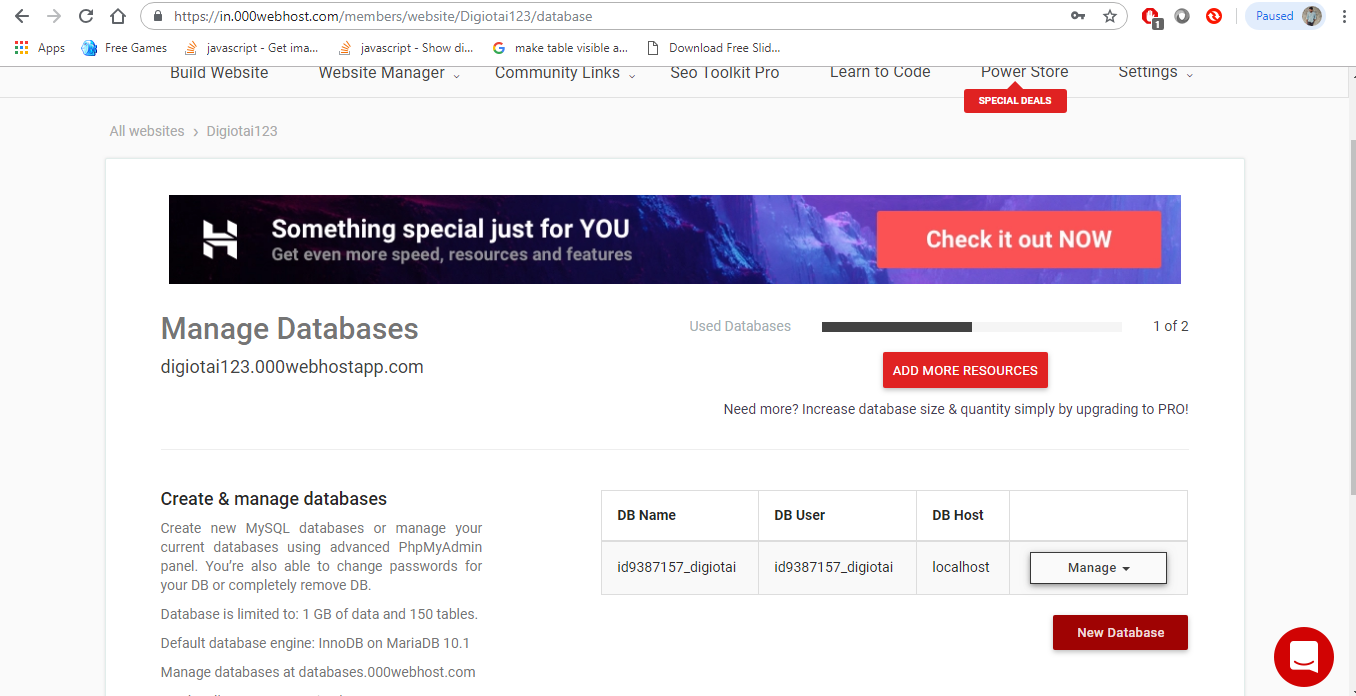


Now click on New Database

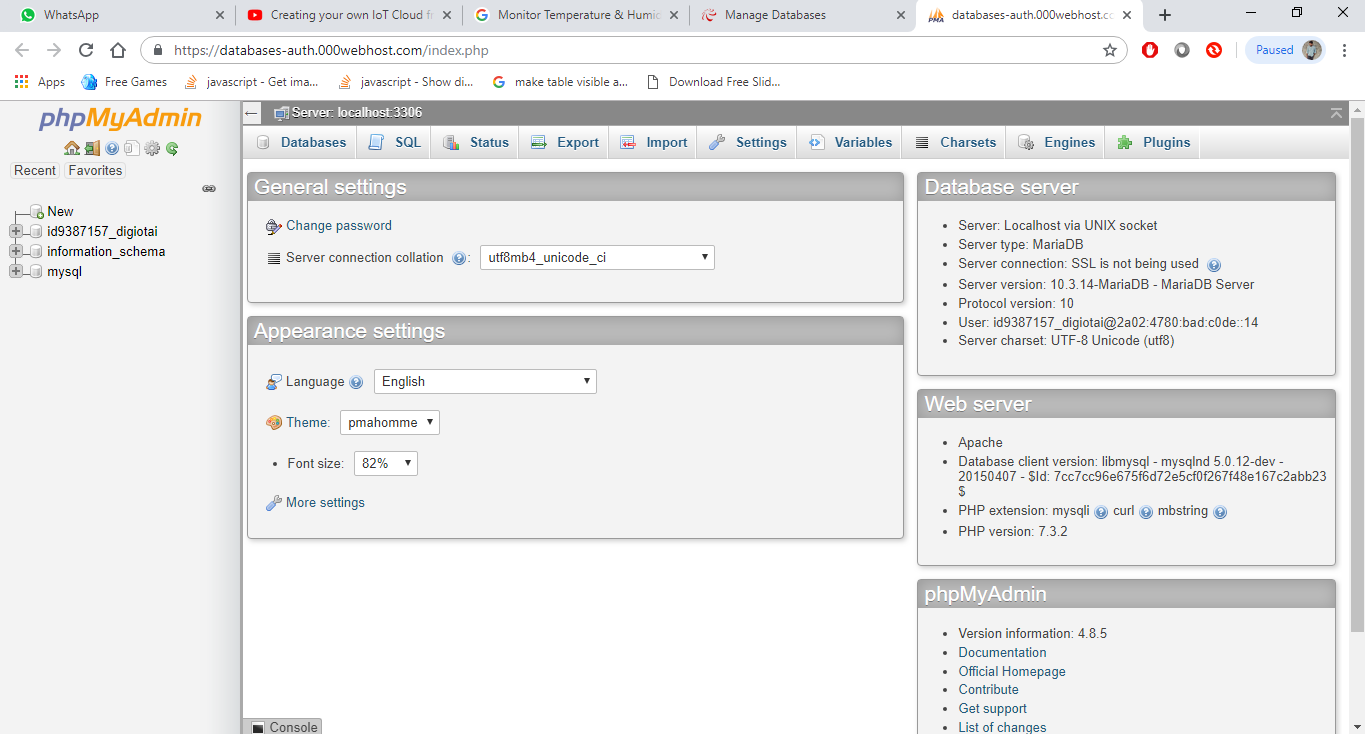


Fill the DB name, DB username, password and click on create button

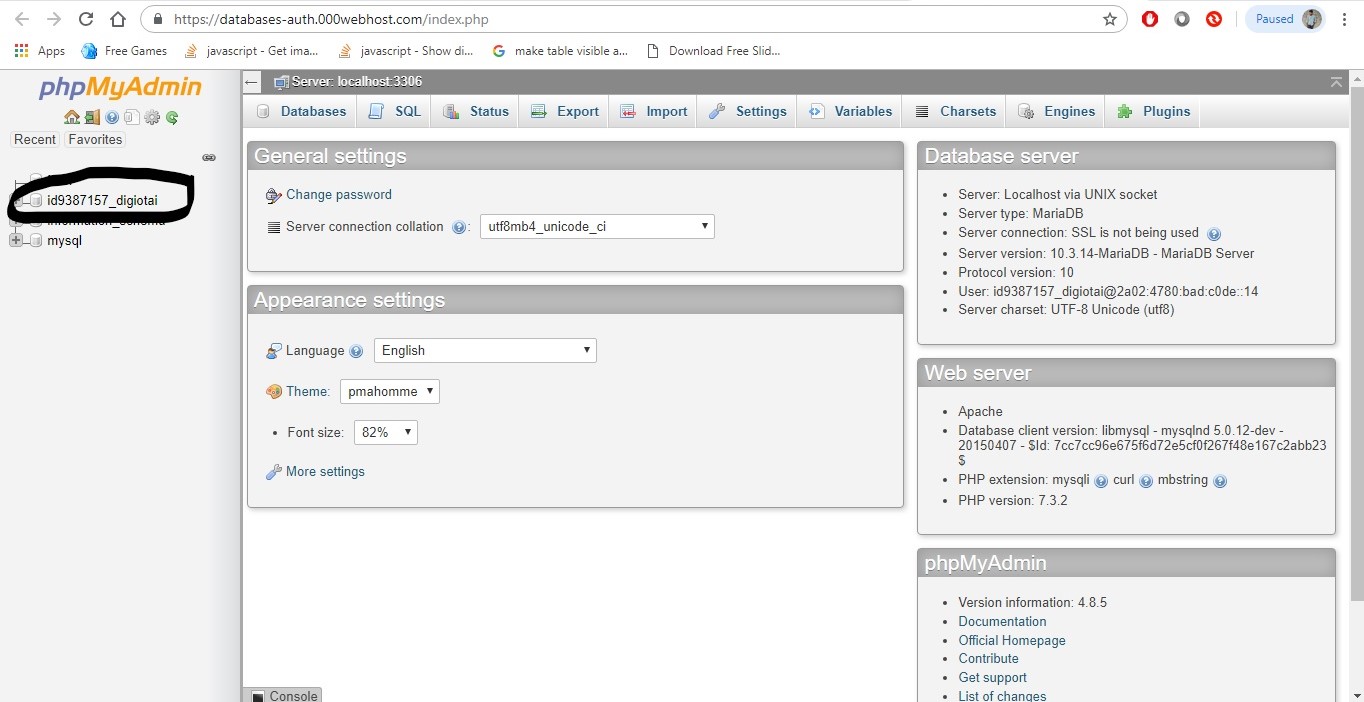
Then click on manage -> PhpMyAdmin



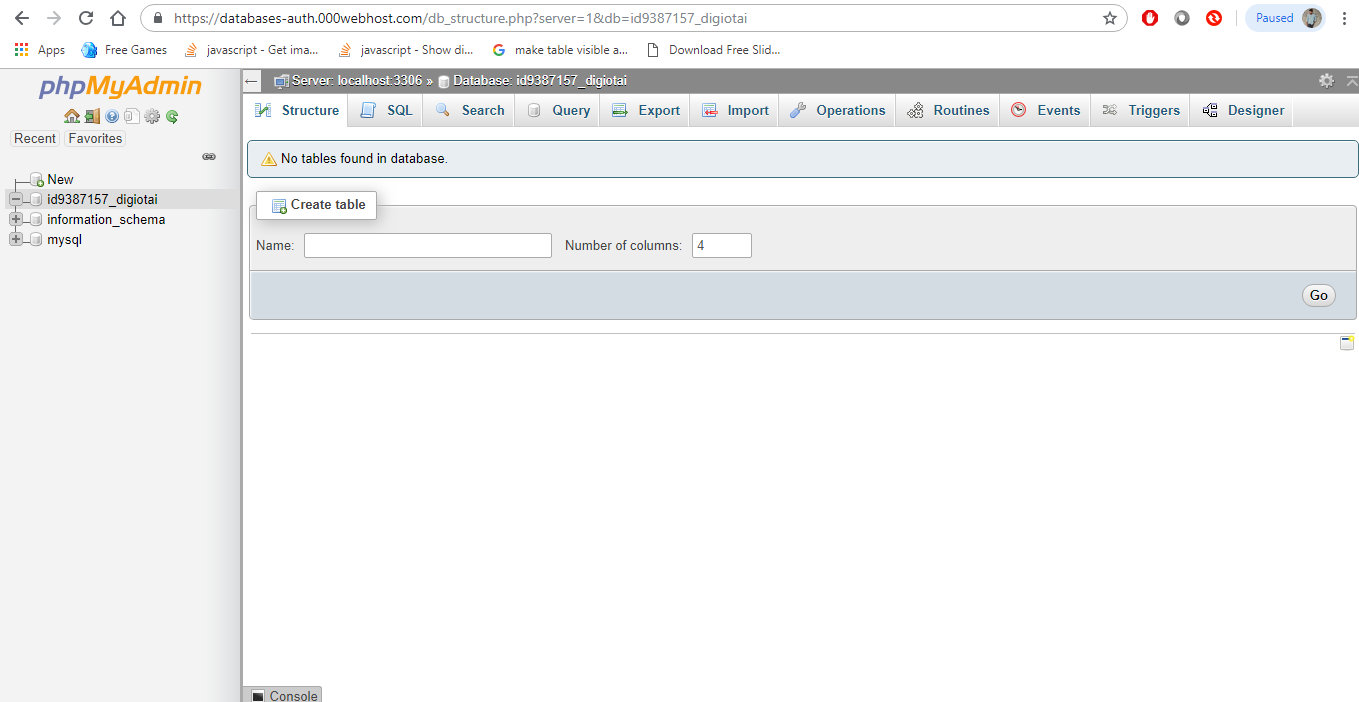
Then the following tab appears



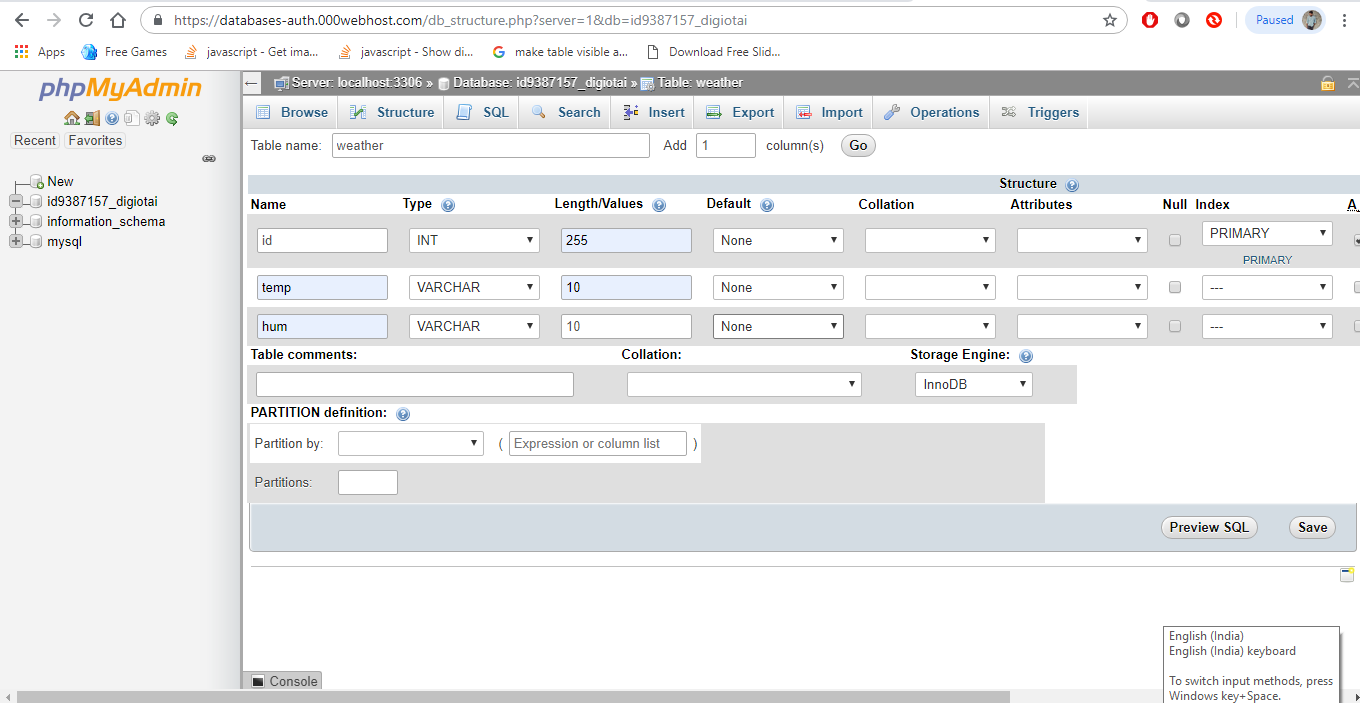
Now click on the DB name as shown in below

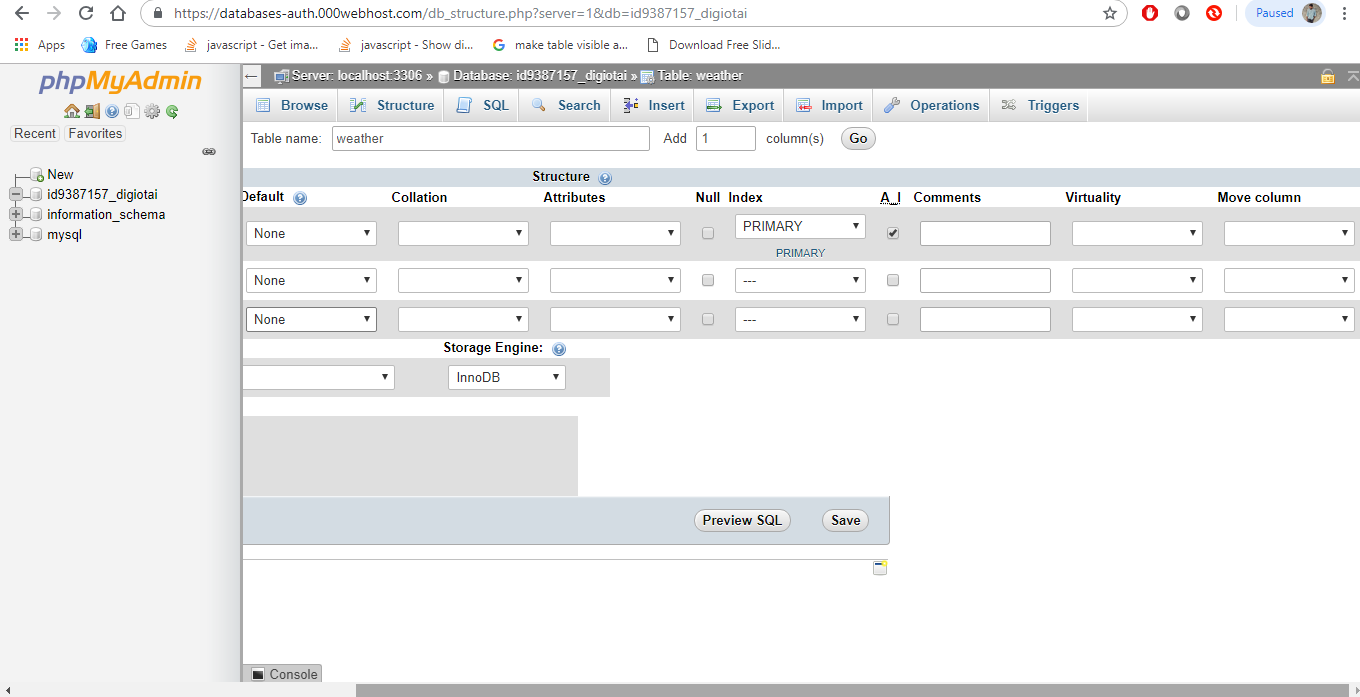


Then the following tab appears. Here we have to create a table

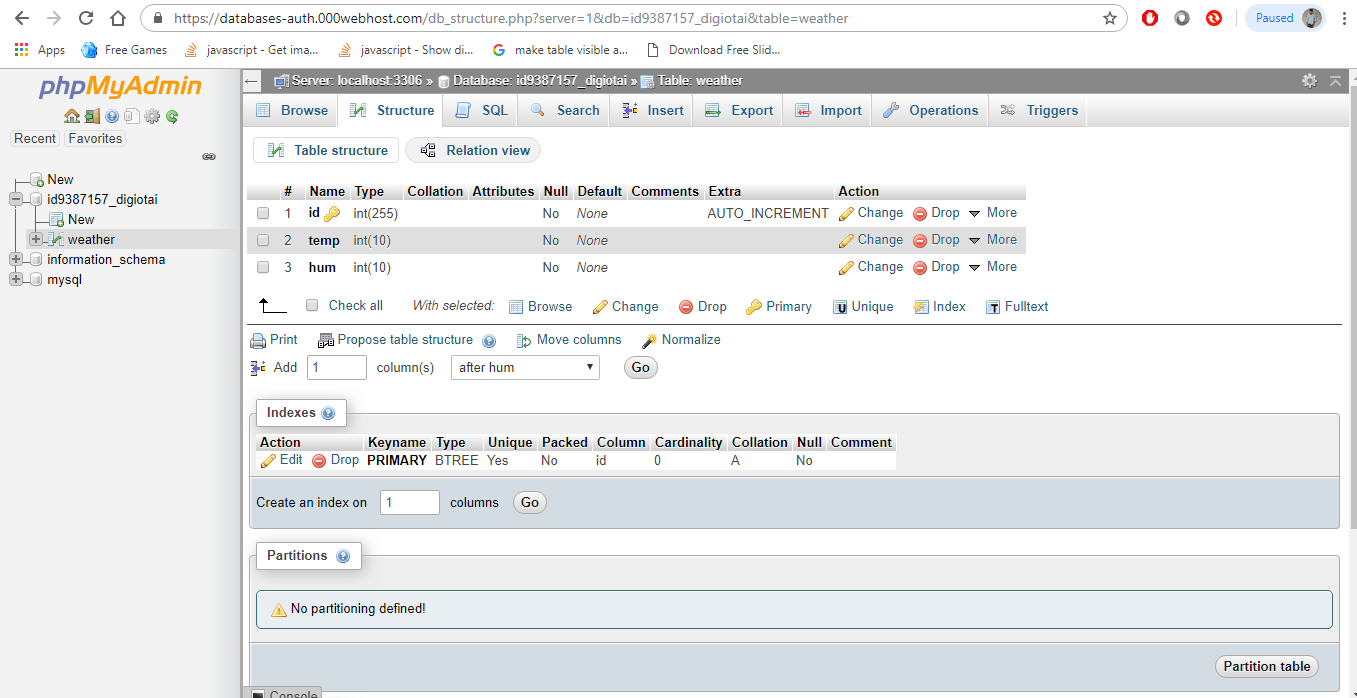


Name the table with “weather” and set the No. of columns = 3 and click on go

Then the following tab appears

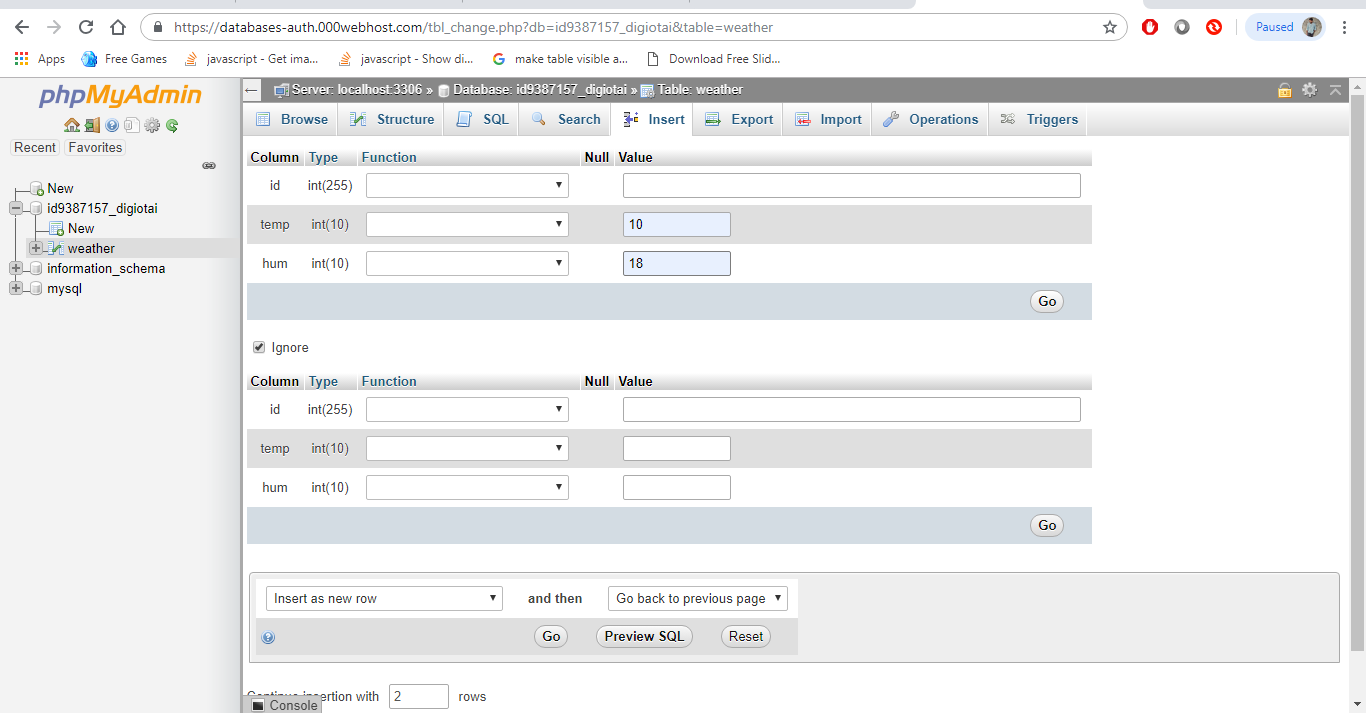


Fill the table contents as shown in above images, and don’t forget to enable the Auto increment (A\_I) for Id column. Then click on save, the following tab appears

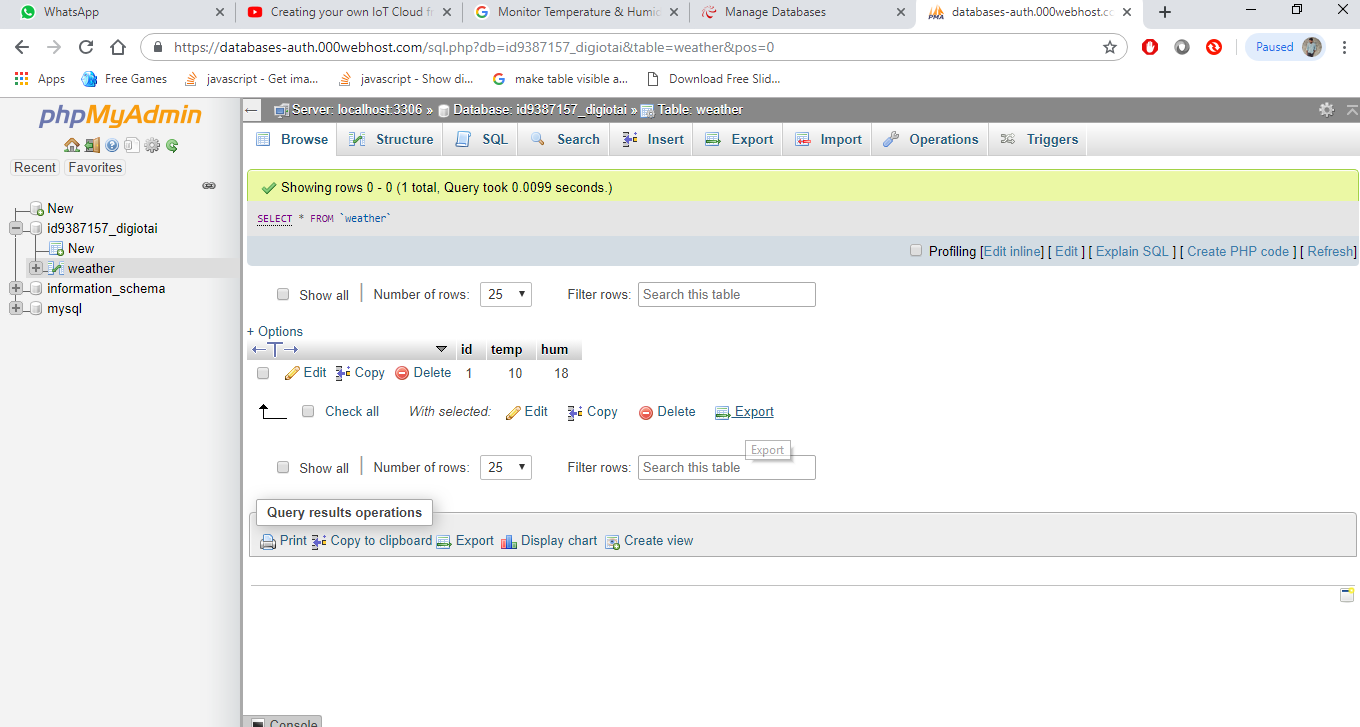


If you want to insert the data manually,

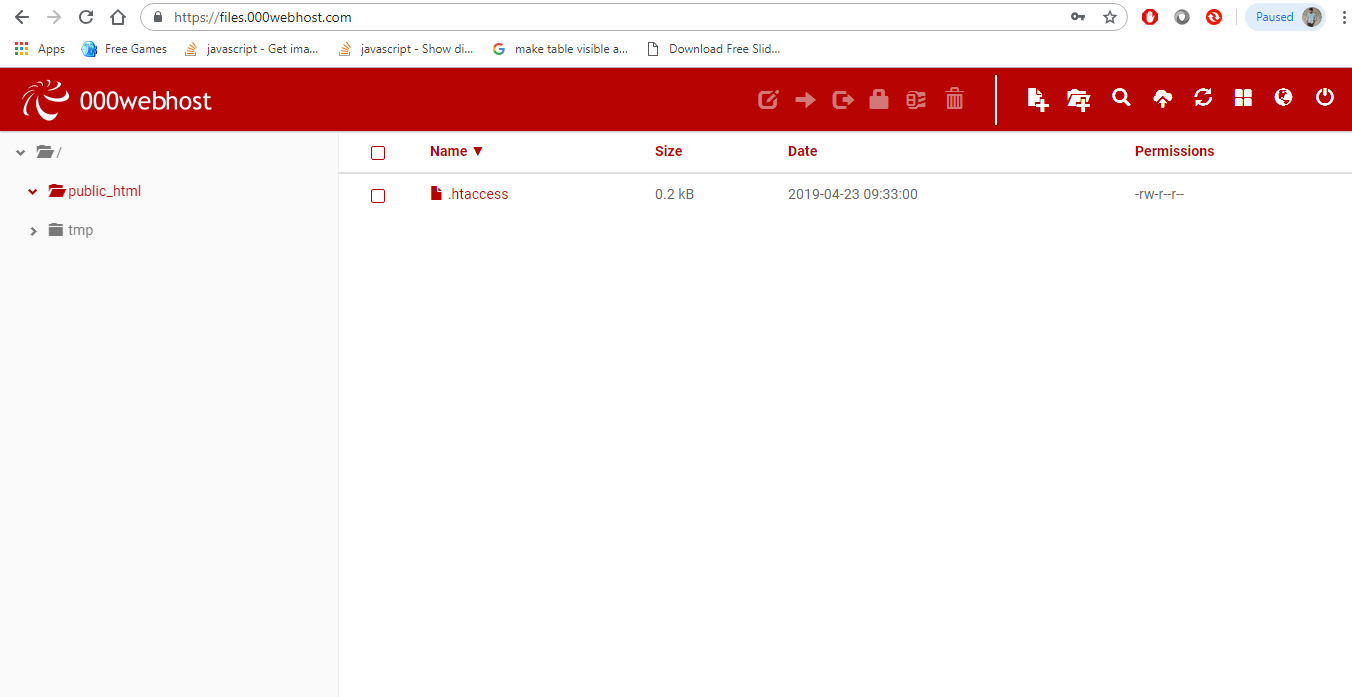
Click on insert and enter the details



You don’t want to enter the value for id as we enable the “Auto increment (A\_I)”. Then click on “Go” button and navigate through the Browse button. Here you will find the data that what you have entered.



Then navigate through website manager -> file manager -> upload files now. Then the following tab appears



Then add a new folder in public\_html and name it as “api”.

Open the api folder and again add another folder and name it as “weather”.

In “weather” add the following Php codes:

After that copy and paste this following programming code and save it as 'dbconfig.php'. Don't forget to replace your database credentials in the below code.

<?php

define('DB\_USER', "id9406126\_sensordata"); // Your database user name

define('DB\_PASSWORD', "Welcome@123"); // Your database password (mention your db password here)

define('DB\_DATABASE', "id9406126\_sensordata"); // Your database name

define('DB\_SERVER', "localhost"); // db server (Mostly will be 'local' host)

?>

Then copy and paste the below code and save it as 'db\_connect.php'.

<?php

class DB\_CONNECT {

// Constructor

function \_\_construct() {

// Trying to connect to the database

$this->connect();

}

// Destructor

function \_\_destruct() {

// Closing the connection to database

$this->close();

}

// Function to connect to the database

function connect() {

//importing dbconfig.php file which contains database credentials

$filepath = realpath (dirname(\_\_FILE\_\_));

require\_once($filepath."/dbconfig.php");

// Connecting to mysql (phpmyadmin) database

$con = mysql\_connect(DB\_SERVER, DB\_USER, DB\_PASSWORD) or die(mysql\_error());

// Selecing database

$db = mysql\_select\_db(DB\_DATABASE) or die(mysql\_error()) or die(mysql\_error());

// returing connection cursor

return $con;

}

// Function to close the database

function close() {

// Closing data base connection

mysql\_close();

}

}

?>

Copy and paste the below code and save it as 'delete.php'.

<?php

header('content-type: application/json; charset=utf-8');

header("access-control-allow-origin: \*");

//Creating Array for JSON response

$response = array();

// Check if we got the field from the user

if (isset($\_GET['id'])) {

$id = $\_GET['id'];

// Include data base connect class

$filepath = realpath (dirname(\_\_FILE\_\_));

require\_once($filepath."/db\_connect.php");

// Connecting to database

$db = new DB\_CONNECT();

// Fire SQL query to delete weather data by id

$result = mysql\_query("DELETE FROM weather WHERE id = $id");

// Check for succesfull execution of query

if (mysql\_affected\_rows() > 0) {

// successfully deleted

$response["success"] = 1;

$response["message"] = "Data successfully deleted";

// Show JSON response

echo json\_encode($response);

} else {

// no matched id found

$response["success"] = 0;

$response["message"] = "No weather data found by given id";

// Echo the failed response

echo json\_encode($response);

}

} else {

// If required parameter is missing

$response["success"] = 0;

$response["message"] = "Parameter(s) are missing. Please check the request";

// Show JSON response

echo json\_encode($response);

}

?>

After that copy and paste the below program and save it as 'insert.php'.

<?php

header("Access-Control-Allow-Origin: \*");

header("Content-Type: application/json; charset=UTF-8");

//Creating Array for JSON response

$response = array();

// Check if we got the field from the user

if (isset($\_GET['temp']) && isset($\_GET['hum'])) {

$temp = $\_GET['temp'];

$hum = $\_GET['hum'];

// Include data base connect class

$filepath = realpath (dirname(\_\_FILE\_\_));

require\_once($filepath."/db\_connect.php");

// Connecting to database

$db = new DB\_CONNECT();

// Fire SQL query to insert data in weather

$result = mysql\_query("INSERT INTO weather(temp,hum) VALUES('$temp','$hum')");

// Check for succesfull execution of query

if ($result) {

// successfully inserted

$response["success"] = 1;

$response["message"] = "Weather successfully created.";

// Show JSON response

echo json\_encode($response);

} else {

// Failed to insert data in database

$response["success"] = 0;

$response["message"] = "Something has been wrong";

// Show JSON response

echo json\_encode($response);

}

} else {

// If required parameter is missing

$response["success"] = 0;

$response["message"] = "Parameter(s) are missing. Please check the request";

// Show JSON response

echo json\_encode($response);

}

?>

Make a new file and copy and paste this program below and save it as 'read\_all.php'.

<?php

header("Access-Control-Allow-Origin: \*");

header("Content-Type: application/json; charset=UTF-8");

//Creating Array for JSON response

$response = array();

// Include data base connect class

$filepath = realpath (dirname(\_\_FILE\_\_));

require\_once($filepath."/db\_connect.php");

// Connecting to database

$db = new DB\_CONNECT();

// Fire SQL query to get all data from weather

$result = mysql\_query("SELECT \*FROM weather") or die(mysql\_error());

// Check for succesfull execution of query and no results found

if (mysql\_num\_rows($result) > 0) {

// Storing the returned array in response

$response["weather"] = array();

// While loop to store all the returned response in variable

while ($row = mysql\_fetch\_array($result)) {

// temperoary user array

$weather = array();

$weather["id"] = $row["id"];

$weather["temp"] = $row["temp"];

$weather["hum"] = $row["hum"];

// Push all the items

array\_push($response["weather"], $weather);

}

// On success

$response["success"] = 1;

// Show JSON response

echo json\_encode($response);

}

else

{

// If no data is found

$response["success"] = 0;

$response["message"] = "No data on weather found";

// Show JSON response

echo json\_encode($response);

}

?>

Save the below file as 'specific.php'.

<?php

header("Access-Control-Allow-Origin: \*");

header("Content-Type: application/json; charset=UTF-8");

//Creating Array for JSON response

$response = array();

// Include data base connect class

$filepath = realpath (dirname(\_\_FILE\_\_));

require\_once($filepath."/db\_connect.php");

// Connecting to database

$db = new DB\_CONNECT();

// Check if we got the field from the user

if (isset($\_GET["id"])) {

$id = $\_GET['id'];

// Fire SQL query to get weather data by id

$result = mysql\_query("SELECT \*FROM weather WHERE id = '$id'");

//If returned result is not empty

if (!empty($result)) {

// Check for succesfull execution of query and no results found

if (mysql\_num\_rows($result) > 0) {

// Storing the returned array in response

$result = mysql\_fetch\_array($result);

// temperoary user array

$weather = array();

$weather["id"] = $result["id"];

$weather["temp"] = $result["temp"];

$weather["hum"] = $result["hum"];

$response["success"] = 1;

$response["weather"] = array();

// Push all the items

array\_push($response["weather"], $weather);

// Show JSON response

echo json\_encode($response);

} else {

// If no data is found

$response["success"] = 0;

$response["message"] = "No data on weather found";

// Show JSON response

echo json\_encode($response);

}

} else {

// If no data is found

$response["success"] = 0;

$response["message"] = "No data on weather found";

// Show JSON response

echo json\_encode($response);

}

} else {

// If required parameter is missing

$response["success"] = 0;

$response["message"] = "Parameter(s) are missing. Please check the request";

// echoing JSON response

echo json\_encode($response);

}

?>

The copy and paste the below program and save it as 'update.php'.

<?php

header("Access-Control-Allow-Origin: \*");

header("Content-Type: application/json; charset=UTF-8");

//Creating Array for JSON response

$response = array();

// Check if we got the field from the user

if (isset($\_GET['id']) && isset($\_GET['temp'])) {

$id = $\_GET['id'];

$temp= $\_GET['temp'];

// Include data base connect class

$filepath = realpath (dirname(\_\_FILE\_\_));

require\_once($filepath."/db\_connect.php");

// Connecting to database

$db = new DB\_CONNECT();

// Fire SQL query to update weather data by id

$result = mysql\_query("UPDATE weather SET temp= '$temp' WHERE id = '$id'");

// Check for succesfull execution of query and no results found

if ($result) {

// successfully updation of temp (temperature)

$response["success"] = 1;

$response["message"] = "Weather Data successfully updated.";

// Show JSON response

echo json\_encode($response);

} else {

}

} else {

// If required parameter is missing

$response["success"] = 0;

$response["message"] = "Parameter(s) are missing. Please check the request";

// Show JSON response

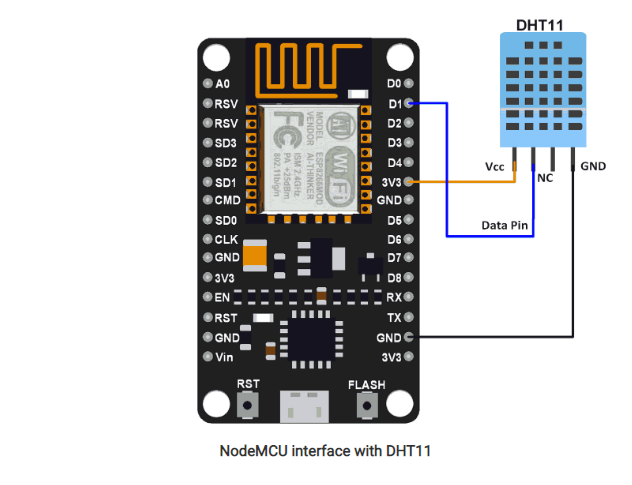
echo json\_encode($response);

}

?>

Step 2: Setting up the NodeMcu & Arduino IDE

Firstly, connect the NodeMcu & DHT11 as shown in below



In DHT11 sensor,

1st pin is VCC

2nd pin is Signal pin

3rd pin is No connection

4th pin is Ground

After all the connections are made then open the Arduino IDE tool and paste the following code:

#include <ESP8266WiFi.h>

#include "DHT.h"

#define DHTPIN D1

#define DHTTYPE DHT11

const char\* ssid = "SSID"; //enter your wifi network name

const char\* password = "Password"; //enter your wifi password

const char\* host = "Website Name"; //enter your website name

DHT dht(DHTPIN, DHTTYPE);

void setup() {

Serial.begin(115200);

delay(100);

dht.begin();

Serial.println();

Serial.println();

Serial.print("Connecting to ");

Serial.println(ssid);

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());

Serial.print("Netmask: ");

Serial.println(WiFi.subnetMask());

Serial.print("Gateway: ");

Serial.println(WiFi.gatewayIP());

}

void loop() {

float h = dht.readHumidity();

// Read temperature as Celsius (the default)

float t = dht.readTemperature();

if (isnan(h) || isnan(t)) {

Serial.println("Failed to read from DHT sensor!");

return;

}

Serial.print("connecting to ");

Serial.println(host);

WiFiClient client;

const int httpPort = 80;

if (!client.connect(host, httpPort)) {

Serial.println("connection failed");

return;

}

String url = "/api/weather/insert.php?temp=" + String(t) + "&hum="+ String(h);

Serial.print("Requesting URL: ");

Serial.println(url);

client.print(String("GET ") + url + " HTTP/1.1\r\n" +

"Host: " + host + "\r\n" +

"Connection: close\r\n\r\n");

delay(500);

while(client.available()){

String line = client.readStringUntil('\r');

Serial.print(line);

}

Serial.println();

Serial.println("closing connection");

delay(3000);

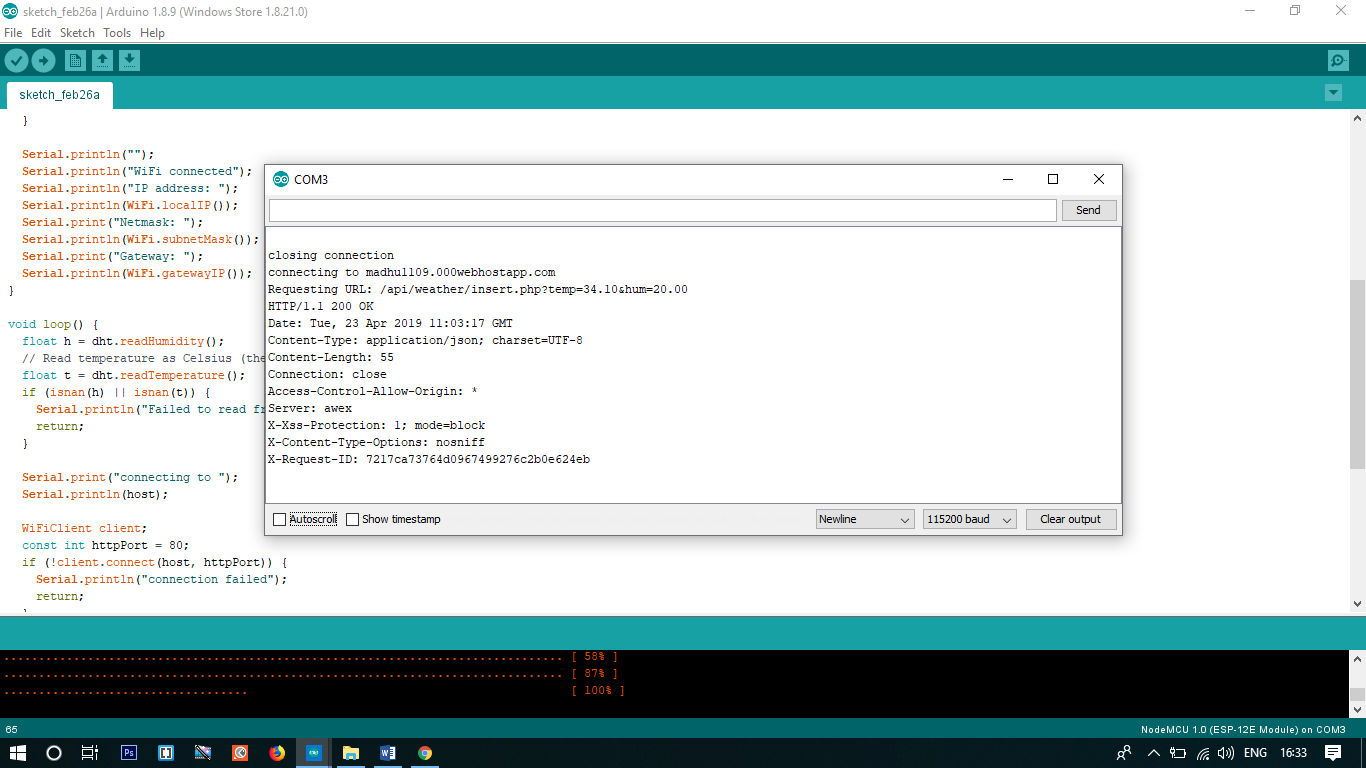
}

After copied the code to the arduino IDE.

connect your NodeMCU device to your pc using a usb data cable.

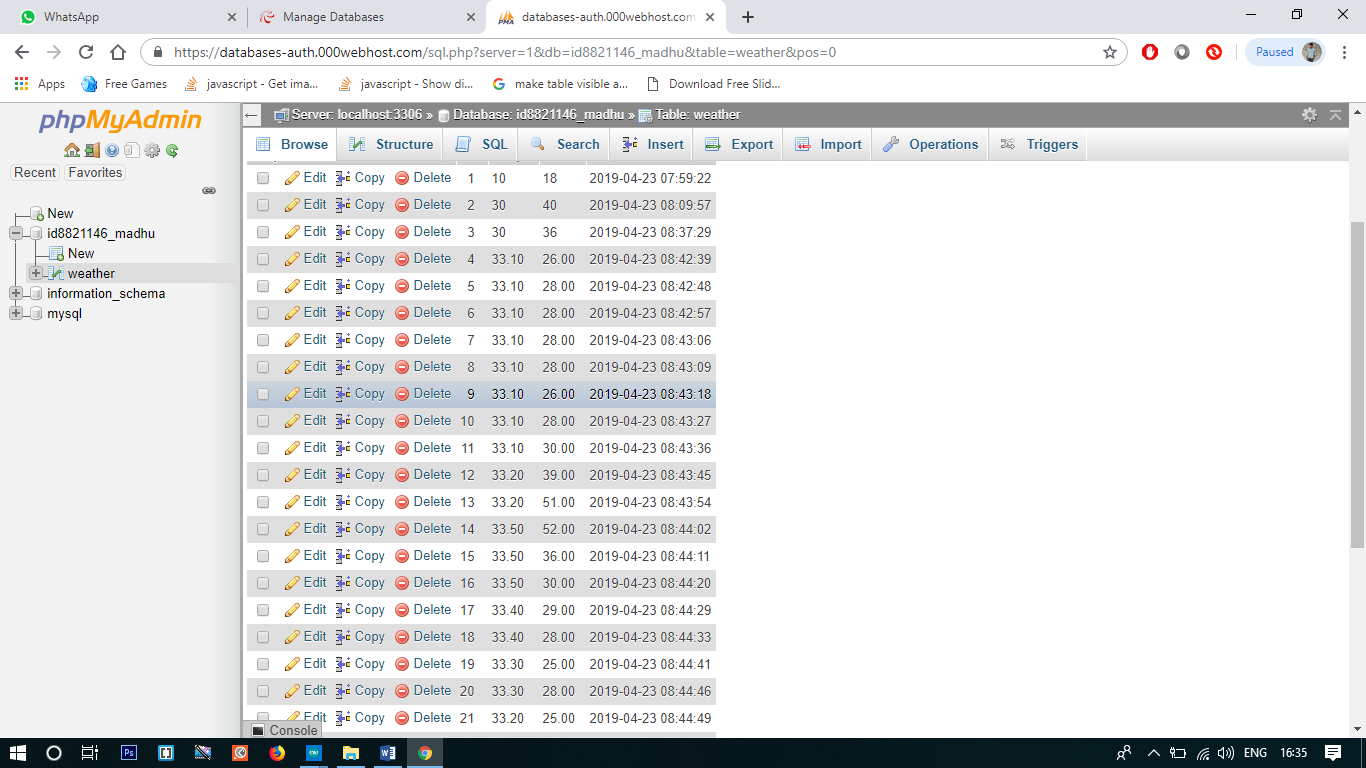
Then upload the code in to NodeMCU device.

Once the flashing completed open the serial monitor and check the results.



Finally, open the “phpMyAdmin” panel and navigate through the “Browse” option and click on it

Here we find the updates of Temperature & Humidity values.



Note: Make sure that you didn’t make any mistakes while editing the codes.

Data in a web page

First, login to the 000webhost.com site and go to file manager

Here we add a new folder called “app “and place the below code in it.

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0"/>

<meta http-equiv="Access-Control-Allow-Origin" content="\*">

<!-- If you are opening this page from local machine, uncomment belwo line -->

<script src="http://ajax.googleapis.com/ajax/libs/jquery/2.0.0/jquery.min.js"></script>

<!-- If you are opening this page from a web hosting server machine, uncomment belwo line -->

<!--

<script type="text/javascript">

document.write([

"\<script src='",

("https:" == document.location.protocol) ? "https://" : "http://",

"ajax.googleapis.com/ajax/libs/jquery/1.2.6/jquery.min.js' type='text/javascript'>\<\/script>"

].join(''));

</script>

-->

<title>ESP12E NodeMCU Temperature &amp; Humidity Sensor From PHP API</title>

<style>

.footer{

background:#64B5F6;

width:100%;

height:100px;

position:absolute;

bottom:0;

left:0;

}

.center {

height: 400px;

width: 400px;

background: #c0c5ce;

position: fixed;

box-shadow: 0 4px 8px 0 rgba(0, 0, 0, 0.2), 0 6px 20px 0 rgba(0, 0, 0, 0.19);

top: 50%;

left: 50%;

margin-top: -180px;

margin-left: -200px;

}

.form{

padding-top: 10px;

padding-right: 30px;

padding-bottom: 50px;

padding-left: 30px;

}

.ip{

background-color: #ffffff; /\* Green \*/

border: none;

color: black;

padding: 16px 32px;

text-align: center;

text-decoration: none;

display: inline-block;

font-size: 16px;

margin: 4px 2px;

-webkit-transition-duration: 0.4s; /\* Safari \*/

}

</style>

</head>

<body bgcolor="#ffffff">

<center>

<h1 style="font-family: Helvetica;color: black;">ESP12E NodeMCU Temperature &amp; Humidity Sensor From PHP API</h1>

</center>

<div class="center">

<div align="center" class="form">

<br><br>

<p style = 'line-height: 60px;font-family: Helvetica;color: #fff;font-size: 50px;' id="temperature">

<img src = 'temperature.png' height="60px" width="60px" style='vertical-align: middle' /> 00.00

</p>

<p style = 'line-height: 60px;font-family: Helvetica;color: #fff;font-size: 50px;' id="humidity">

<img src = 'humidity.png' height="60px" width="60px" style='vertical-align: middle' /> 00.00

</p>

</div>

</div>

<!-- <footer class="footer">

<center>

<h4 style="font-family: Helvetica;color: white;">&copy; 2017 | <a href="http://vsgupta.in/">Vivek Gupta</a> | <a href="http://www.iotmonk.com/">IoTMonk.com</a> </h4>

</center>

</footer>-->

</body>

<script>

window.onload = function() {

loaddata();

};

function loaddata(){

var url = "https://digiotai2345.000webhostapp.com/api/weather/read\_all.php";

$.getJSON(url, function(data) {

var val= data;

var humid=(data['weather'][(Object.keys(data['weather']).length)-1]['hum']);

var temper=(data['weather'][(Object.keys(data['weather']).length)-1]['temp']);

document.getElementById("temperature").innerHTML = "<img src = 'temperature.png' height=\"60px\" width=\"60px\" style='vertical-align: middle' /> " +temper;

document.getElementById("humidity").innerHTML = "<img src = 'humidity.png' height=\"60px\" width=\"60px\" style='vertical-align: middle' /> "+humid;

console.log(data['weather'][(Object.keys(data['weather']).length)-1]['temp']);

});

}

window.setInterval(function(){

loaddata();

}, 5000);

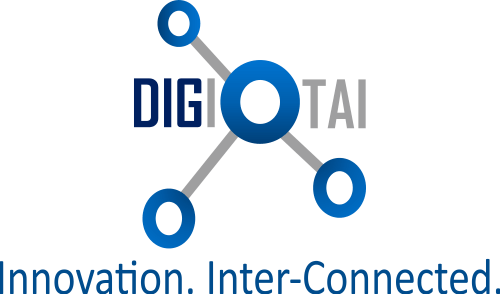
</script>

</html>

Change the URL in the above html file.

Then click on view, you will see the readings of Temperature & Humidity which is recorded at last in the Database.

Next create another file called “ui” and place the files which is given below



copy and paste the below program and save it as 'chart.php

<?php

$connection = mysqli\_connect('localhost', ‘id9406126\_sensordata', 'Welcome@123', ‘id9406126\_sensordata’);

$result = mysqli\_query($connection, "SELECT \* FROM weather");

//if($result){

//echo "connected";

//}

?>

<html>

<head>

<script type="text/javascript" src="https://www.gstatic.com/charts/loader.js"></script>

<script type="text/javascript">

google.charts.load('current', {'packages':['bar']});

google.charts.setOnLoadCallback(drawChart);

function drawChart() {

var data = google.visualization.arrayToDataTable([

['id', 'Temperarute', 'Humidity'],

<?php

if(mysqli\_num\_rows($result)> 0){

while($row = mysqli\_fetch\_array($result)){

echo "['".$row['id']."','".$row['Temperature']."',['".$row['Humidity']."']],";

}

}

?>

]);

var options = {

chart: {

title: 'Temperature & Humidity',

}

};

var chart = new google.charts.Bar(document.getElementById('columnchart\_material'));

chart.draw(data, google.charts.Bar.convertOptions(options));

}

</script>

</head>

<body>

<div id="columnchart\_material" style="width: 700px; height: 350px;"></div>

</body>

</html>

copy and paste the below program and save it as connect.php

<?php

$Temperature = filter\_input(INPUT\_POST, 'Temperature');

$Humidity = filter\_input(INPUT\_POST, 'Humidity');

if (!empty($Temperature)){

if (!empty($Humidity)){

$host = "localhost";

$dbusername = "id9406126\_sensordata ";

$dbpassword = "Welcome@143";

$dbname = "id9406126\_sensordata";

// Create connection

$conn = new mysqli ($host, $dbusername, $dbpassword, $dbname);

if (mysqli\_connect\_error()){

die('Connect Error ('. mysqli\_connect\_errno() .') '

. mysqli\_connect\_error());

}

else{

$sql = "INSERT INTO weather (temp, hum)

values ('$Temperature','$Humidity')";

if ($conn->query($sql)){

echo "New record is inserted sucessfully";

}

else{

echo "Error: ". $sql ."

". $conn->error;

}

$conn->close();

}

}

else{

echo "Humidity should not be empty";

die();

}

}

else{

echo "Temperature should not be empty";

die();

}

?>

copy and paste the below program and save it as data.php

<!DOCTYPE html>

<html>

<head>

<title>Data</title>

<style>

table {

border: 2px solid #dddddd;

width: 80%;

color: #1c1b1b;

font-family: monospace;

font-size: 20px;

text-align: center;

margin-top: 30px;

margin-left: 130px;

}

th {

background-color: #006cfb;

color: white;

}

tr:nth-child(odd) {background-color: #FFC300}

. tr {

background-color: #F74E2C;

}

.center {

display: block;

margin-left: auto;

margin-right: auto;

margin-top: 20px;

}

.chart {

margin: 100px 120px;

}

</style>

<body>

<a href="https://www.Digiotai.com" target="\_blank">

<IMG SRC="Digotai Logo Mobile.png" class="center" ALT="www.digiotai.com" WIDTH=180 HEIGHT=100>

</a>

<table>

<tr>

<th>Time</th>

<th>Temperature</th>

<th>Humidity</th>

</tr>

<?php

$conn = mysqli\_connect("localhost", "id9406126\_sensordata", "Welcome@123", "id9406126\_sensordata");

// Check connection

if ($conn->connect\_error) {

die("Connection failed: " . $conn->connect\_error);

}

$sql = "SELECT temp, hum, Time FROM weather ORDER BY id DESC LIMIT 10";

$result = $conn->query($sql);

//$date = new DateTime($mysql\_column['Time']);

//if ($result->num\_rows > 0) {

// output data of each row

while($row = $result->fetch\_assoc()) {

echo "<tr><td>" .$row["Time"] . "</td><td>" . $row["temp"] . "</td><td>"

. $row["hum"]. "</td></tr>";

}

echo "</table>";

//} else { echo "0 results"; }

$conn->close();

?>

</table>

<div class="chart">

<?php

$connection = mysqli\_connect('localhost', id9406126\_sensordata', 'Welcome@143', id9406126\_sensordata');

$result = mysqli\_query($connection, "SELECT \* FROM weather");

//if($result){

//echo "connected";

//}

?>

<html>

<head>

<script type="text/javascript" src="https://www.gstatic.com/charts/loader.js"></script>

<script type="text/javascript">

google.charts.load('current', {'packages':['bar']});

google.charts.setOnLoadCallback(drawChart);

function drawChart() {

var data = google.visualization.arrayToDataTable([

['Time', 'Temperature', 'Humidity'],

<?php

if(mysqli\_num\_rows($result)> 0){

while($row = mysqli\_fetch\_array($result)){

echo "['".$row['Time']."','".$row['Temperature']."','".$row['Humidity']."'],";

}

}

?>

]);

var options = {

chart: {

title: 'Temperature & Humidity',

}

};

var chart = new google.charts.Bar(document.getElementById('columnchart\_material'));

chart.draw(data, google.charts.Bar.convertOptions(options));

}

</script>

</head>

<body>

<div id="columnchart\_material" style="width: 500px; height: 250px;"></div>

</body>

</html>

</div>

</head>

</body>

</html>

copy and paste the below program and save it as histogramchart.php

<?php

$connection = mysqli\_connect('localhost', 'id9406126\_sensordata', 'Welcome@143', 'id9406126\_sensordata');

$result = mysqli\_query($connection, "SELECT \* FROM weather");

?>

<html>

<head>

<script type="text/javascript" src="https://www.gstatic.com/charts/loader.js"></script>

<script type="text/javascript">

google.charts.load("current", {packages:["corechart"]});

google.charts.setOnLoadCallback(drawChart);

function drawChart() {

var data = google.visualization.arrayToDataTable([

['id', 'temp', 'hum'],

<?php

if(mysqli\_num\_rows($result)> 0){

while($row = mysqli\_fetch\_array($result)){

echo "['".$row['id']."','".$row['temp']."','".$row['hum']."'],";

}

}

?>

]);

var options = {

title: 'Temperature & Humidity',

legend: { position: 'none' },

};

var chart = new google.visualization.Histogram(document.getElementById('chart\_div'));

chart.draw(data, options);

}

</script>

</head>

<body>

<div id="chart\_div" style="width: 900px; height: 500px;"></div>

</body>

</html>

copy and paste the below program and save it as index.html

<!DOCTYPE html>

<html>

<style>

input[type=text], select {

width: 150px;

padding: 12px 20px;

margin: 8px 0;

display: inline-block;

border: 1px solid #ccc;

border-radius: 4px;

box-sizing: border-box;

text-align: center;

}

input[type=submit] {

width: 200px;

background-color: #006cfb;

color: white;

padding: 14px 20px;

margin: 8px 0;

border: none;

border-radius: 4px;

cursor: pointer;

font-weight: bold;

font-size: 18px;

}

input[type=submit]:hover {

background-color: #62A1F4;

}

label {

font-weight: bold;

font-size: 20px;

text-align: center;

}

footer {

background:#006cfb;

width:100%;

height:100px;

position:absolute;

bottom:0;

left:0;

}

div {

border-radius: 5px;

background-color: #f2f2f2;

text-align: center;

width: 100%;

display: inline-block;

margin-top: 30px;

}

.center {

display: block;

margin-left: auto;

margin-right: auto;

margin-top: 10px;

}

</style>

<head>

<title>Temperature & Humidity</title>

</head>

<body bgcolor="#ffffff">

<a href="https://www.Digiotai.com" target="\_blank">

<IMG SRC="Digotai Logo Mobile.png" class="center" ALT="www.digiotai.com" WIDTH=200 HEIGHT=120>

</a>

<div>

<form method="post" action="connect.php">

<h2 style="font-family: Helvetica;color: black;">ESP12E NodeMCU Temperature &amp; Humidity Sensor From PHP API</h2>

<label for="fname">Temperature:</label>

<input required type="text" id="fname" name="Temperature" >

<br>

<br>

<label for="fname">Humidity:</label>

<input required type="text" id="fname" name="Humidity" >

<br>

<br>

<input type="submit" value="Submit">

</form>

<form action="data.php">

<input type="Submit" value="Display">

</form>

</div>

<footer class="footer">

<center>

<h2 style="font-family: Helvetica;color: white; margin-top: 50px; font-size: 20px">Copyright @ DIGIOTAI | Powered by Arc Web Solutions</h2>

</center>

</footer>

</body>

</html>

copy and paste the below program and save it as piechart.php

<?php

$connection = mysqli\_connect('localhost', 'id9406126\_sensordata', 'Welcome@143', 'id9406126\_sensordata');

$result = mysqli\_query($connection, "SELECT \* FROM weather");

?>

<html>

<head>

<script type="text/javascript" src="https://www.gstatic.com/charts/loader.js"></script>

<script type="text/javascript">

google.charts.load("current", {packages:["corechart"]});

google.charts.setOnLoadCallback(drawChart);

function drawChart() {

var data = google.visualization.arrayToDataTable([

['Temperature', 'Humidity'],

<?php

if(mysqli\_num\_rows($result)> 0){

while($row = mysqli\_fetch\_array($result)){

echo "['".$row['Temperature']."','".$row['Humidity']."'],";

}

}

?>

]);

var options = {

title: 'Temperature & Humidity',

is3D: true,

};

var chart = new google.visualization.PieChart(document.getElementById('piechart\_3d'));

chart.draw(data, options);

}

</script>

</head>

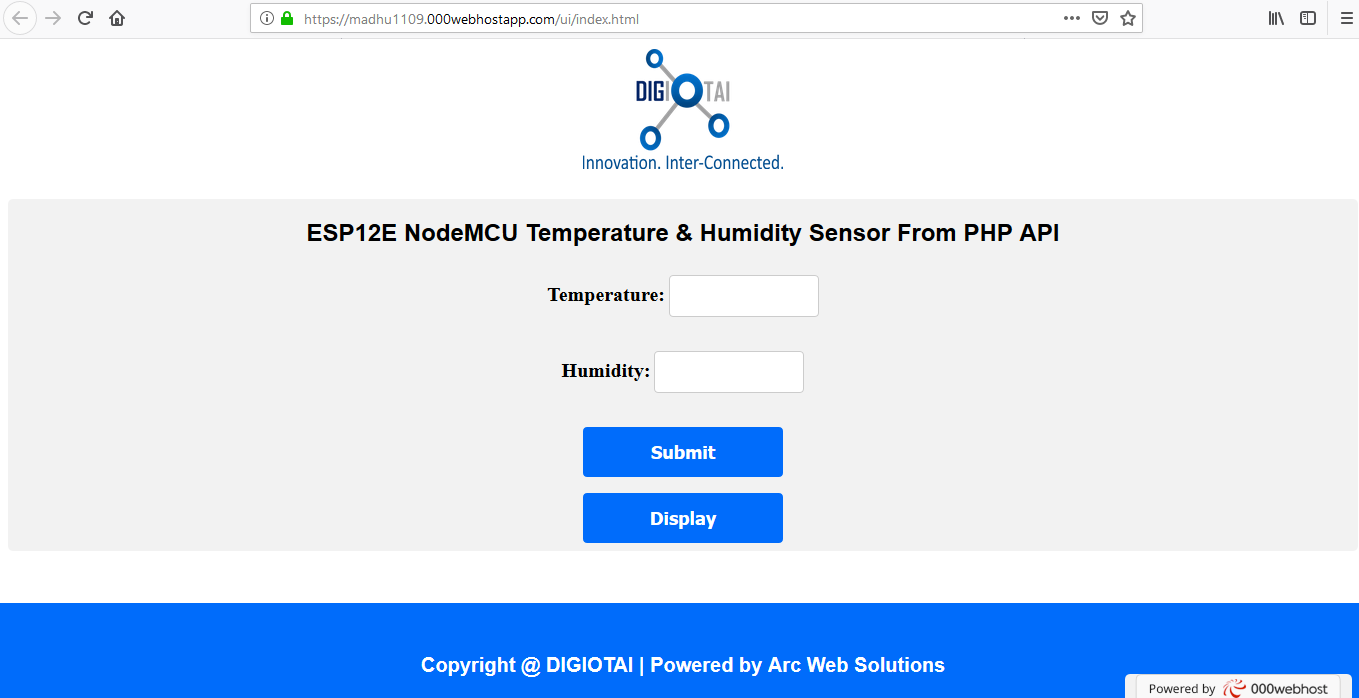
<body>

<div id="piechart\_3d" style="width: 900px; height: 500px;"></div>

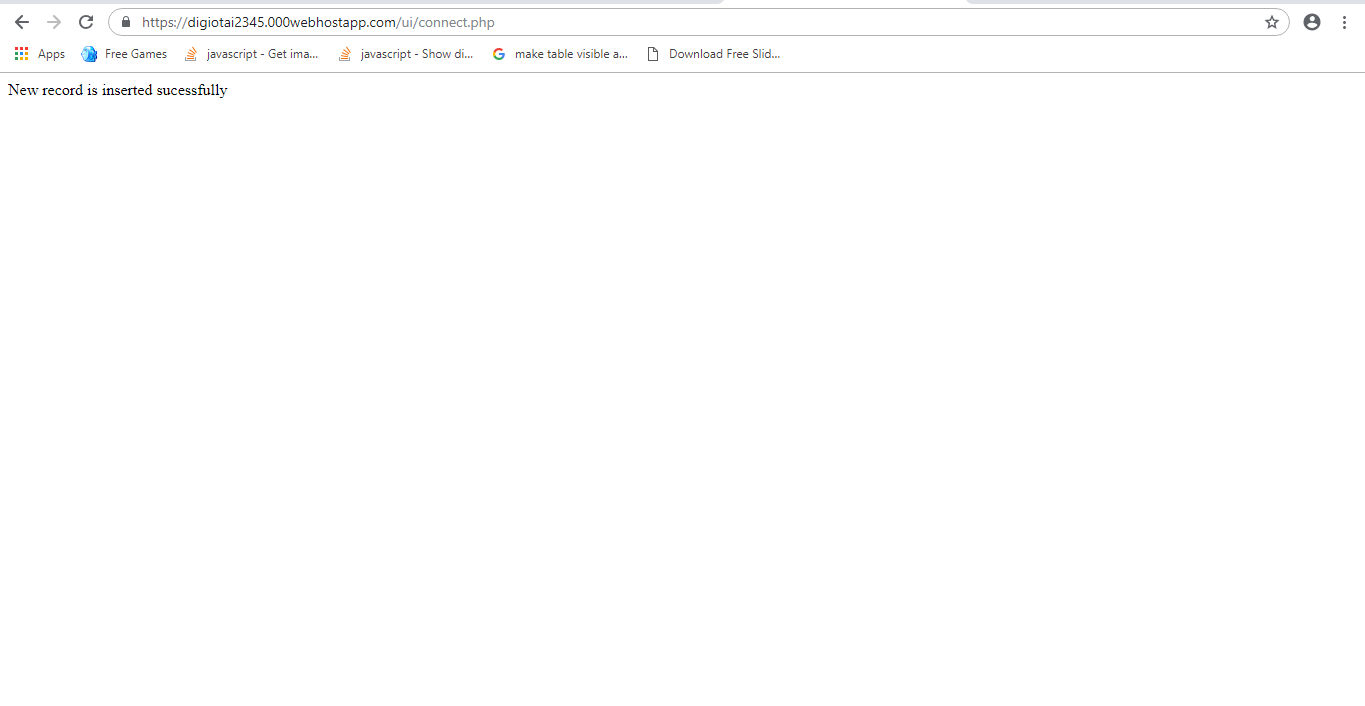
</body>

</html>

Now change the configuration in the above files and run the Html page you will get the following page.



Here submit button is used for entering the data manually. When you click on submit button after entering the values the following tab appears.



And Display button is used to Display the data present in the database as shown below

