

Certification Page

This page must be the first page of your uploaded document.

Your assignment will not be graded without this page (completed with your full name in the area provided) as the first page of your uploaded document.

I, **Ulvi Bajarani**, certify that the work I am uploading represents my own efforts, and is not copied from anyone else or any other resource (such as Internet). *Furthermore, I certify that I have not let anyone copy from my work.*

/public_html/scripts/.htaccess

HTID:5712550: DO NOT REMOVE OR MODIFY THIS LINE AND THE LINES BELOW

php_value display_errors 1

DO NOT REMOVE OR MODIFY THIS LINE AND THE LINES ABOVE

HTID:5712550:

RewriteEngine On

RewriteCond %{HTTPS} off

RewriteRule ^(.*)\$ https://%{REQUEST_URI} [L,R=301]

<Limit GET>

deny from all

</Limit>

/public_html/scripts/sync_rpi_data.php

<?php

require_once __DIR__ . '/../..../required/db_connect.php';

\$input = file_get_contents("php://input");

\$error=0; \$out_json = array(); \$out_json['success'] = 1; //assume success

\$SW1_status=0; \$LED1_status=0;

if (\$input) {

\$json = json_decode(\$input, true); //check if it json input

if (json_last_error() == JSON_ERROR_NONE) {

if (isset(\$json["username"]) && isset(\$json["password"]) && isset(\$json["SW1"])
&& isset(\$json["LED1"])) {

\$in_username = \$json["username"];

\$in_password = \$json["password"]; //if the expected fields are not null, get them

\$in_SW1 = \$json["SW1"];

\$in_LED1 = \$json["LED1"];

if (\$stmt=\$mysqli->prepare("SELECT password FROM webuser WHERE pname = ?
LIMIT 1")) {

\$stmt->bind_param('s', \$in_username);

\$stmt->execute(); \$stmt->store_result(); //store_result to get num_rows etc.

\$stmt->bind_result(\$db_password); //get the hashed password

\$stmt->fetch();

if (\$stmt->num_rows == 1) { //if user exists, verify the password

if (password_verify(\$in_password, \$db_password)) {

\$stmt->close();

if (\$stmt = \$mysqli->prepare("UPDATE device set status=?

where devname = 'SW1')) { //update SW1

\$stmt->bind_param('i', \$in_SW1); \$stmt->execute();

```

} else {$error=1;}
$stmt->close();
if (!$error && ($stmt = $mysqli->prepare("SELECT status FROM device
where devname = 'SW1'"))) { //read SW1
$stmt->execute(); $stmt->bind_result($SW1_status); $stmt->fetch();
} else {$error=2;}
$stmt->close();
if (!$error && ($stmt = $mysqli->prepare("SELECT status FROM device
where devname = 'LED1'"))) { //read LED1
$stmt->execute(); $stmt->bind_result($LED1_status); $stmt->fetch();
} else {$error=3;}
$stmt->close();
} else {$error=4;}
} else {$error=5;}
} else {$error=6;}
} else {$error=7;}
} else {$error=8;}
} else {$error=9;}
if ($error){
$out_json['success'] = 0; //flag failure
}
$out_json['SW1'] = $SW1_status; $out_json['LED1'] = $LED1_status;
$out_json['error'] = $error; //provide error (if any) number for debugging
echo json_encode($out_json); //encode the data in json format
?>

```

/public_html/.htaccess

```

# HTID:14362848: DO NOT REMOVE OR MODIFY THIS LINE AND THE LINES
BELOW

```

```

php_value display_errors 1

```

```

# DO NOT REMOVE OR MODIFY THIS LINE AND THE LINES ABOVE
HTID:14362848:

```

```

RewriteEngine On

```

```

RewriteCond %{HTTPS} off

```

```

RewriteRule ^(.*)$ https://%{REQUEST_URI} [L,R=301]

```

/public_html/quick_register.php

```

<?php
require_once __DIR__ . '/../required/db_connect.php';
$username = "ben";
$password = "*****"; //set this to ***** when done so the script does not show the
password
if ($stmt = $mysqli->prepare("INSERT INTO webuser (pname, password) VALUES
(?, ?)")) {
    $hashedPassword = password_hash($password, PASSWORD_DEFAULT);
    $stmt->bind_param('ss',$username, $hashedPassword); //ss: each s corresponds to the
type of param
    $stmt->execute(); //First & 2nd params are string type
}
?>

```

/required/db_config.php

```

<?php
define('DB_HOST', 'localhost');
define('DB_USER', 'id14019461_user');
define('DB_PASSWORD', 'Zugzwang-1990');
define('DB_DATABASE', 'id14019461_insurance');
?>

```

/required/db_connect.php

```

<?php
require_once 'db_config.php'; //tell the script that file is in this folder (not in this script)
$mysqli = new mysqli(DB_HOST, DB_USER, DB_PASSWORD, DB_DATABASE);
?>

```

SQL Code

```

create table person (pname VARCHAR(30) NOT NULL, street VARCHAR(50) NOT
NULL, city VARCHAR(50) NOT NULL, Primary Key (pname));
create table vehicle (year VARCHAR(4) NOT NULL, make VARCHAR(30) NOT
NULL, model VARCHAR(30) NOT NULL, cost INT NOT NULL, licplate
VARCHAR(7) NOT NULL, pname VARCHAR(30) NOT NULL, Primary Key
(licplate,pname));

```

```
create table accident (accnum INT NOT NULL, licplate VARCHAR(7) NOT NULL,
accdate date NOT NULL, pname VARCHAR(30) NOT NULL, Primary Key
(accnum,licplate));
insert into person values ("marisol", "zenith", "harlingen"), ("dolly", "pstreet",
"brownsville");
insert into vehicle values (2005, 'toyota', 'camry', 25000, 't123', 'marisol');
insert into vehicle values (1996, 'jeep', 'wrangler', 23000, 'm123', 'marisol');
insert into vehicle values (1997, 'suzuki', 'samurai', 25000, 'k123', 'dolly');
insert into accident values (101, 'n123', '2012/07/15', 'sunny'), (102, 'h123', '2014/04/04',
'sunny');
create table webuser (pname VARCHAR(30) NOT NULL, password VARCHAR(255)
NOT NULL, Primary Key (pname));
create table device (devnum INT NOT NULL, devtype VARCHAR(10) NOT NULL,
devname VARCHAR(10) NOT NULL, ctrl VARCHAR(10) NOT NULL, status INT
NOT NULL, Primary Key (devnum));
insert into device values (1, 'SENSOR', 'SW1', 'RPI', 0);
insert into device values (2, 'ACTUATOR', 'LED1', 'ANDROID', 0);
```

FTP Detailed Information

Here you can set preferences to manage access to your website files.

By disabling this feature you will not be able to access the Web File Manager.

FTP transfer

OFF ☒ ON

Host Name:

files.000webhost.com

Port:

21

Username:

abranhial-duress

Password:

same as your website password

Website Name

You can change the name of your website here.

abranhial-duress.000webhostapp.com

Password

Change your website password here. This is also FTP password.

Change Password

▼ /

▼ public_html

➤ tmp

Edit file

/public_html/.htaccess

```
1  
2 # HTID:14362848: DO NOT REMOVE OR MODIFY THIS LINE AND THE LINES BELOW  
3 php_value display_errors 1  
4 # DO NOT REMOVE OR MODIFY THIS LINE AND THE LINES ABOVE HTID:14362848:  
5  
6 RewriteEngine On  
7 RewriteCond %{HTTPS} off  
8 RewriteRule ^(.*)$ https://%{REQUEST_URI} [L,R=301]
```

SAVE & CLOSE SAVE

Current site | **Free**

[← Home](#)

Tools

Set Web Address

File Manager

Database Manager

Email Manager

[All websites](#) > [Abranchial-duress](#)

My Databases

+ New Database

 $\left(\frac{1}{2} \right)$

| DB Name | DB User | DB Host | |
|-----------------------|-----------------|-----------|---|
| id14019461_insuran... | id14019461_user | localhost | <div><div></div></div> <div>Creating database</div> |

Database Manager

Here you can create and manage all your databases.

- Database Space Limit: 1GB
- Database Table Limit: 100 Tables
- Manage your database at **databases.000webhost.com**
- Use localhost as a connection hostname.



pi@raspberrypi: ~

File Edit Tabs Help

```
[5]+ Stopped python p2_t8.py
pi@raspberrypi:~ $ python p2_t8.py
p2_t8.py:7: RuntimeWarning: This channel is already in use, continuing anyway. Use GPIO.setwarnings(
(False) to disable warnings.
  GPIO.setup(4,GPIO.OUT) #configure BCM Pin #4 as OUTPUT
=====Server Response at 2020-06-10 00:24:09.722242=====
++++Server request successful:
>>>> Server request failed - Error #0
=====Server Response at 2020-06-10 00:24:15.150627=====
++++Server request successful:
>>>> Server request failed - Error #0
=====Server Response at 2020-06-10 00:24:20.511137=====
++++Server request successful:
>>>> Server request failed - Error #0
=====Server Response at 2020-06-10 00:24:25.843899=====
++++Server request successful:
>>>> Server request failed - Error #0
^Z
[6]+ Stopped python p2_t8.py
pi@raspberrypi:~ $ python p2_t8.py
p2_t8.py:7: RuntimeWarning: This channel is already in use, continuing anyway. Use GPIO.setwarnings(
(False) to disable warnings.
  GPIO.setup(4,GPIO.OUT) #configure BCM Pin #4 as OUTPUT
=====Server Response at 2020-06-10 00:24:48.872106=====
++++Server request successful:
>>>> Server request failed - Error #0
pi@raspberrypi:~ $
```