Certification Page

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ı, Ulvi Bajarani	, certify that the work I am uploading represents efforts of
my team member and mine per the following task-o	contribution table, and is not copied from anyone else or
any other resource (such as Internet).	

	Tasks on the schedule for this quiz are 1, 2, 3, and 4. You may break these tasks further down into subtasks as needed.	Percent contributed	Percent contributed	Total percent
#	Subtask Description	Ulvi Bajarani	Gwendolyn Poulos	
1.1	Program Android App to interact with DB Tables in PaaS	50%	50%	100%
1.2	Test interaction between Android App and RPi through DB tables in PaaS	50%	50%	100%
1.3	Fixing Chart on the website	50%	50%	100%

The updated code of welcome.php (includes the link to the chart)

```
<?php
require once DIR . '/../required/db connect.php';
?>
<html>
  <header>
    <title>Welcome</title>
    <meta charset="UTF-8"/>
  </header>
  <body>
    <div id="header">
       <h1>Welcome</h1>
    </div>
    <div id="body">
       <div id="status"></div>
       <script type="text/javascript" src="jquery.js"></script>
       <script src="https://cdn.jsdelivr.net/npm/chart.js@2.8.0"></script>
       <script type="text/javascript">
         $(document).ready(function() {
            setInterval(function() {
              $('#status').load('DBdevice.php')
            }, 3000);
         });
       </script>
       <form id="form1" method="post" action="">
         <input type="hidden" id="out" value="1">
         <button type="submit">Logout</button>
       </form>
       <div id=check>
         <?php
            if(isset($ POST['out'])){
            $uname='ben';
            $id='10':
            date default timezone set("America/Chicago");
            $date=date("Y-m-d H:i:s");
            $stmt=$mysqli->prepare("INSERT INTO
TransactionalLogs(TimestampInfo,MessageID,DataInformation) VALUES(?,?,?)");
            $stmt->bind param('sss',$date,$id,$uname);
            $stmt->execute();
```

```
$stmt->close();
            echo "<script type='text/javascript'>alert('Logging Out')</script>";
            echo "<script> window.location.assign('index.php');</script>";
         ?>
       </div>
       <div id="chartLink"><a href="Chart.php">The link to the Timestamp
chart</div>
    </div>
  </body>
</html>
The code of data.php (to fetch the data for the chart)
<?php
require once DIR . '/../required/db connect.php';
$stmt = "SELECT MessageID, TimestampInfo FROM TransactionalLogs ORDER BY
TimestampInfo";
$result = mysqli query($mysqli,$stmt);
$data = array();
foreach ($result as $row){
  $data[] = $row;
mysqli close($mysqli);
echo json encode($data);
?>
The code of Chart.php (The chart code)
<html>
  <!--https://phppot.com/php/creating-dynamic-data-graph-using-php-and-chart-js/-->
  <div id="charts">
    <canvas id="chart1"></canvas>
  </div>
  <script src='https://cdn.jsdelivr.net/npm/chart.js@2.8.0'></script>
  <script src='jquery.js'></script>
  <script>
     $(document).ready(function (){
       showGraph();
     });
```

```
function showGraph(){
  {
     $.post('data.php',
     function(data){
       console.log(data);
       data=JSON.parse(data);
       var time=[];
       var mid=[];
       for (var i in data){
          time.push(data[i].TimestampInfo);
          mid.push(data[i].MessageID);
       var chartdata={
          labels: time,
          datasets:[{
            label: 'LED Monitoring',
            borderColor: '#F778A1',
            data: mid
          }]
       };
       var graphTarget = $("#chart1");
       var linegraph = new Chart (graphTarget,{
          type: 'bar',
          data: chartdata,
          options:{
            scales:{
               xAxes:[{
                 scaleLabel:{
                    display: true,
                    fontColor: #6C2DC7',
                    labelString: 'Time Stamp'
                 },
                 ticks: {
                    fontColor:'#6C2DC7'
               }],
               yAxes:[{
                 scaleLabel:{
                    display: true,
```

import time

The code of Projectv4.py, which is launched from an Android Phone to test.

```
import kivy
from kivy.app import App
from kivy.uix.button import Button
from kivy.uix.boxlayout import BoxLayout
from kivy.uix.label import Label
from kivy.uix.switch import Switch
from kivy.clock import Clock
from functools import partial
import requests
class BoxLayoutApp(App):
  #def init (self, **kwargs):
    #super(BoxLayoutApp,self). init (**kwargs)
  def build(self):
    self.superBox = BoxLayout(orientation ='vertical')
    self.VB1 = BoxLayout(orientation ='vertical')
    self.lbl1 = Label(text="Monitoring System")
```

```
self.VB1.add widget(self.lbl1)
localtime = time.asctime(time.localtime(time.time()))
self.lbl2 = Label(text=localtime)
self.VB1.add widget(self.lbl2)
self.HB1 = BoxLayout(orientation = 'horizontal')
self.lbl3 = Label(text="Diastolic BP < 60mmHg:")
self.HB1.add widget(self.lbl3)
self.sw1=Switch(active=False,
          disabled=True)
self.HB1.add widget(self.sw1)
#self.sw1.bind(active=switch callback1)
self.HB2 = BoxLayout(orientation ='horizontal')
self.lbl4 = Label(text="Diastolic BP > 120mmHg:")
self.HB2.add widget(self.lbl4)
self.sw2=Switch(active=False,
         disabled=True)
self.HB2.add widget(self.sw2)
#self.sw2.bind(active=switch callback2)
self.HB3 = BoxLayout(orientation = 'horizontal')
self.lbl5 = Label(text="Administering Norepinephrine:")
self.HB3.add widget(self.lbl5)
self.led1=Switch(active=False,
          disabled=False)
self.HB3.add widget(self.led1)
self.led1.bind(active=switch callback3)
self.HB4 = BoxLayout(orientation ='horizontal')
self.lbl6 = Label(text="Administering Nitroglycerin:")
self.HB4.add widget(self.lbl6)
self.led2=Switch(active=False,
          disabled=False)
self.HB4.add widget(self.led2)
self.led2.bind(active=switch callback4)
```

```
self.HB5 = BoxLayout(orientation ='horizontal')
self.lbl7 = Label(text="Alarm1")
self.HB5.add widget(self.lbl7)
self.settings5=Switch(active=False)
self.HB5.add widget(self.settings5)
self.settings5.bind(active=self.switch callback5)
self.lbl71=Label(text="On since: ")
self.HB5.add widget(self.lbl71)
self.btn5 = Button(text="acknowledge")
self.btn5.bind(on press=self.pressed2)
self.HB5.add widget(self.btn5)
self.HB6 = BoxLayout(orientation ='horizontal')
self.lbl8 = Label(text="Alarm2")
self.HB6.add widget(self.lbl8)
self.settings6=Switch(active=False)
self.HB6.add widget(self.settings6)
self.settings6.bind(active=self.switch callback6)
self.lbl81=Label(text="On since: ")
self.HB6.add widget(self.lbl81)
self.btn6 = Button(text="acknowledge")
self.btn6.bind(on press=self.pressed3)
self.HB6.add widget(self.btn6)
self.HB7 = BoxLayout(orientation ='horizontal')
self.btn7 = Button(text="Dispense Norepinephrine")
self.btn7.bind(on press=self.pressed1)
self.HB7.add widget(self.btn7)
self.btn8 = Button(text="Dispense Nitroglycerin")
self.btn8.bind(on press=self.pressed)
self.HB7.add widget(self.btn8)
self.btn9 = Button(text="Dispense Auto")
self.btn9.bind(on press=self.presseda)
self.HB7.add widget(self.btn9)
self.superBox.add widget(self.VB1)
```

```
self.superBox.add widget(self.HB1)
     self.superBox.add widget(self.HB2)
    self.superBox.add widget(self.HB3)
    self.superBox.add widget(self.HB4)
    self.superBox.add widget(self.HB5)
     self.superBox.add widget(self.HB6)
    self.superBox.add_widget(self.HB7)
    #schedule the JSONrequest function to trigger every 5 seconds to read/write
database
    event = Clock.schedule interval(partial(self.JSONrequest),5)
    return self.superBox
  def JSONrequest(self, *largs):
    if(self.sw1.active==True):
       SW1=1
    else:
       SW1=0
    if(self.sw2.active==True):
       SW2=1
    else:
       SW2=0
    if(self.led1.active==True):
       LED1=1
    else:
       LED1=0
     if(self.led2.active==True):
       LED2=1
     else:
       LED2=0
     data={'username':'Test',
'password':'Tester3','SW1':SW1,'LED1':LED1,'SW2':SW2,'LED2':LED2}
res=requests.post("https://team2project3342.online/scripts/sync android data.php",json
=data)
    print(res)
    r=res.json()
    if(SW1!=r['SW1']):
      print("Changing SW1 status to the value in the database.")
      if self.sw1.active==True:
         self.sw1.active=False
```

```
self.led1.active=False
    else:
       self.sw1.active=True
  if(SW2!=r['SW2']):
    print("Changing SW2 status to the value in the database.")
    if self.sw2.active==True:
       self.sw2.active=False
       self.led2.active=False
    else:
       self.sw2.active=True
  return
def pressed(self,instance):
  print ("you picked " + instance.text)
  self.led2.active=True
def pressed1(self,instance):
  print ("you picked " + instance.text)
  self.led1.active=True
def presseda(self,instance):
  print ("you picked " + instance.text)
  if self.sw1.active==True:
     self.led1.active=True
  else:
     self.led1.active=False
  if self.sw2.active==True:
     self.led2.active=True
  else:
     self.led2.active=False
def pressed2(self,instance):
  print ("you acknowleged Alarm1")
  self.settings5.active=False
  print("turning alarm1 off")
def pressed3(self,instance):
  print ("you acknowleged Alarm2")
  self.settings6.active=False
  print("turning alarm1 off")
def switch callback5(self, switchObject, switchValue):
  print('Value of Alarm1: ', switchValue)
  if self.settings5.active==True:
```

```
ltm = time.asctime(time.localtime(time.time()))
       self.lbl71.text+=ltm
     else:
       self.lbl71.text = "On since: "
  def switch callback6(self, switchObject, switchValue):
    print('Value of Alarm2: ', switchValue)
    if self.settings6.active==True:
       ltm = time.asctime(time.localtime(time.time()))
       self.lbl81.text+=ltm
     else:
       self.lbl81.text = "On since: "
def switch callback1(switchObject, switchValue):
    print('Value of SW1: ', switchValue)
def switch callback2(switchObject, switchValue):
    print('Value of SW2: ', switchValue)
def switch callback3(switchObject, switchValue):
    print('Value of LED1: ', switchValue)
def switch callback4(switchObject, switchValue):
    print('Value of LED2: ', switchValue)
#class myApp(App):
   def build(self):
#
      return BoxLayout()
if name ==" main ":
  myApp=BoxLayoutApp()
  myApp.run()
 # myApp().run()
```