

# SURAT PENCATATAN CIPTAAN

Dalam rangka perlindungan ciptaan di bidang ilmu pengetahuan, seni dan sastra berdasarkan Undang-Undang Nomor 28 Tahun 2014 tentang Hak Cipta, dengan ini menerangkan:

Nomor dan tanggal permohonan : EC00202008514, 3 Maret 2020

## Pencipta

Nama : **Ali Khumaidi, Hudzaifah Al Jihad dkk**  
Alamat : Jl. Batu Tumbuh No.18 RT.003 RW.005 Jaticepaka, Pondok Gede, Bekasi, JAWA BARAT, 17411  
Kewarganegaraan : Indonesia

## Pemegang Hak Cipta

Nama : **Ali Khumaidi, Hudzaifah Al Jihad dkk**  
Alamat : Jl. Batu Tumbuh No.18 RT.003 RW.005 Jaticepaka, Pondok Gede, Bekasi, JAWA BARAT, 17411  
Kewarganegaraan : Indonesia  
Jenis Ciptaan : **Program Komputer**  
Judul Ciptaan : **Aplikasi Telemedicine Heart Rate Monitor Menggunakan Arduino Dan ESP8266 Berbasis IOT REST API**  
Tanggal dan tempat diumumkan untuk pertama kali di wilayah Indonesia atau di luar wilayah Indonesia : 24 Oktober 2019, di Bekasi  
Jangka waktu perlindungan : Berlaku selama 50 (lima puluh) tahun sejak Ciptaan tersebut pertama kali dilakukan Pengumuman.  
Nomor pencatatan : 000183978

adalah benar berdasarkan keterangan yang diberikan oleh Pemohon.  
Surat Pencatatan Hak Cipta atau produk Hak terkait ini sesuai dengan Pasal 72 Undang-Undang Nomor 28 Tahun 2014 tentang Hak Cipta.

a.n. MENTERI HUKUM DAN HAK ASASI MANUSIA  
DIREKTUR JENDERAL KEKAYAAN INTELEKTUAL



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2	Hudzaifah Al Jihad	Jl. Kembang XI RT.006 RW.002 Kwitang, Senen
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4	Risanto Darmawan	Jl. Kelud Kiri Atas No.24 Jatibening Baru, Pondok Gede
5	Nuke L Chusna	Cililitan Besar No.30 RT.001 RW.009 Cililitan, Kramatjati

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PROGRAM KOMPUTER

**APLIKASI TELEMEDICINE HEART RATE MONITOR MENGGUNAKAN  
ARDUINO DAN ESP8266 BERBASIS IOT REST API**

**Oleh**

1. Ali Khumaidi
2. Hudzaifah Al Jihad
3. Herwanto
4. Risanto Darmawan
5. Nuke L Chusna



## SOURCE CODE PROGRAM DAN DATABASE

### A. Database

#### A.1. Table log\_queue

```
22 CREATE TABLE `log_queue` (  
23   `id_log` int(11) NOT NULL auto_increment,  
24   `user_auth` varchar(75) NOT NULL,  
25   `command` text NOT NULL COMMENT 'perintah',  
26   `status` tinyint(3) NOT NULL COMMENT '0. New, 1. Finish',  
27   `time_create` timestamp NOT NULL default CURRENT_TIMESTAMP,  
28   `time_update` datetime default NULL COMMENT 'time finish',  
29   PRIMARY KEY (`id_log`)  
30 ) ENGINE=InnoDB DEFAULT CHARSET=utf8 AUTO_INCREMENT=2 ;  
31
```

#### A.2. Table log\_sensor

```
43  
44 CREATE TABLE `log_sensor` (  
45   `id_log` int(11) NOT NULL auto_increment,  
46   `user_auth` varchar(75) NOT NULL COMMENT 'user auth yg terdaftar',  
47   `id_sensor` int(11) NOT NULL COMMENT '0. Command special, 1 - * sensor',  
48   `val_sensor` varchar(35) NOT NULL COMMENT 'Nilai pembacaan sensor',  
49   `time_update` timestamp NOT NULL default CURRENT_TIMESTAMP on update CURRENT_TIMESTAMP,  
50   PRIMARY KEY (`id_log`),  
51   KEY `id_sensor` (`id_sensor`)  
52 ) ENGINE=InnoDB DEFAULT CHARSET=latin1 AUTO_INCREMENT=1 ;  
53
```

#### A.3. Table sensor

```
64  
65 CREATE TABLE `sensor` (  
66   `id_sensor` int(11) NOT NULL auto_increment,  
67   `id_user` int(11) NOT NULL COMMENT 'identitas pemilik sensor',  
68   `nama_sensor` varchar(25) NOT NULL,  
69   `widget` varchar(10) NOT NULL COMMENT 'val sensor to widget',  
70   `enable` tinyint(3) NOT NULL COMMENT '1. True, 0. False',  
71   `notes` text NOT NULL COMMENT 'Detail sensor',  
72   `time_update` timestamp NOT NULL default CURRENT_TIMESTAMP COMMENT 'Update perubahan data',  
73   PRIMARY KEY (`id_sensor`)  
74 ) ENGINE=InnoDB DEFAULT CHARSET=latin1 AUTO_INCREMENT=2 ;  
75
```

#### A.4. Table task

```
87
88 CREATE TABLE `task` (
89     `id_task` int(11) NOT NULL auto_increment,
90     `id_user` int(11) NOT NULL,
91     `id_sensor` int(11) NOT NULL,
92     `task_cmd` text NOT NULL,
93     `enable` tinyint(3) NOT NULL,
94     `user_update` int(11) NOT NULL,
95     `time_update` timestamp NOT NULL default CURRENT_TIMESTAMP,
96     PRIMARY KEY (`id_task`)
97 ) ENGINE=InnoDB DEFAULT CHARSET=utf8 AUTO_INCREMENT=2 ;
98
```

#### A.5. Table user

```
111 CREATE TABLE `user` (
112     `id_user` int(11) NOT NULL auto_increment,
113     `user_auth` varchar(75) NOT NULL,
114     `name` varchar(35) NOT NULL,
115     `email` varchar(35) NOT NULL,
116     `password` varbinary(100) NOT NULL,
117     `level` tinyint(3) NOT NULL COMMENT '0. Admin, 1. VIP, 2. GOLD, 3. FREE',
118     `address` text NOT NULL COMMENT 'base on updated location',
119     `enable` tinyint(3) NOT NULL,
120     `user_update` int(11) NOT NULL COMMENT 'user yg memasukkan data',
121     `time_update` timestamp NOT NULL default CURRENT_TIMESTAMP,
122     PRIMARY KEY (`id_user`)
123 ) ENGINE=InnoDB DEFAULT CHARSET=latin1 AUTO_INCREMENT=2 ;
124
```

#### A.6. Table Widget

```
136
137 CREATE TABLE `widget` (
138     `id_widget` int(11) NOT NULL auto_increment,
139     `nama` varchar(25) NOT NULL,
140     `enable` tinyint(3) NOT NULL,
141     `notes` text NOT NULL,
142     `user_update` int(11) NOT NULL,
143     `time_update` timestamp NOT NULL default CURRENT_TIMESTAMP,
144     PRIMARY KEY (`id_widget`)
145 ) ENGINE=InnoDB DEFAULT CHARSET=utf8 AUTO_INCREMENT=6 ;
146
```

## B. Source Code Fungsi User dan API

### B.1. Konfigurasi url dan user untuk API (Perangkat ESP8266)

```
8 function pull(method, sensor, nilai)
9     host = "iotcampus.net"
10    apikey = "*****"
11    postData = "/jiiot/api/kirim.php?key="..apikey.."&sensor="..sensor.."&nilai="..nilai
12    exec = "/jiiot/api/eksekusi.php?key="..apikey.."&menu=spcmd"
13    if (method == "post") then
14        api = postData
15    elseif (method == "exec") then
16        api = exec
17    end
```

### B.2. Fungsi utama handle data dari response server

```
18 connout = net.createConnection(net.TCP, 0)
19 connout:on("receive", function(connout, payloadout)
20     if (string.find(payloadout, "200 OK") ~= nil) then
21         --print(payloadout)
22         if (payloadout ~= nil) then
23             start = string.find(payloadout, "{", 1)
24             finish = string.find(payloadout, "}", 1)
25             if (start ~= nil and finish ~= nil) then
26                 json = string.sub(payloadout, start, finish)
27                 if (string.find(json, "Talkback") ~= nil) then
28                     tb1 = json:gsub("'", "")
29                     tb2 = string.match(tb1, 'Talkback:.-,')
30                     if (tb2 ~= nil) then
31                         lenTalkback = string.len(tb2)
32                         startTb = string.find(tb2, ':')
33                         talkback = string.sub(tb2, startTb+1, lenTalkback-1)
34                         if (talkback ~= nil) then
35                             print(talkback)
36                         end
37                     end
38                 elseif (string.find(json, "Eksekusi") ~= nil) then
39                     ex1 = json:gsub("'", "")
40                     ex2 = string.match(ex1, 'Eksekusi:.-,')
41                     if (ex2 ~= nil) then
42                         lenEksekusi = string.len(ex2)
43                         startEx = string.find(ex2, ':')
44                         eksekusi = string.sub(ex2, startEx+1, lenEksekusi-1)
45                         if (eksekusi ~= nil) then
46                             print(eksekusi)
47                         end
48                     end
49                 end
50             end
51         end
52     end
53 end)
```

### B.3. Fungsi handle \_GET request dari client

```
1  <?php
2      include './lib/koneksi.php';
3      include './errorCode.php';
4      include './task.php';
5
6      if(isset($_GET['key'])){
7          $auth = $_GET['key'];
8          $sensor = $_GET['sensor'];
9          $nilai = $_GET['nilai'];
10         $newSensor = $_GET['sensorbaru'];
11         $detsensor = $_GET['detail'];
12         $widsensor = $_GET['widget'];
13         $taskcmd = $_GET['taskcmd'];
14         //-----
15         $conn = mysql_connect($dbhost, $dbuser, $dbpass);
16         if(!$conn){
17             die('Could not connect: ' . mysql_error());
18         }
19         $sql = "SELECT id_user
20             FROM user
21             where user_auth = '$auth'";
22         mysql_select_db($dbname);
23         $retval = mysql_query($sql, $conn) or die (mysql_error());
24         while($row = mysql_fetch_array($retval, MYSQL_ASSOC)){
25             $id = $row['id_user'];
26         }
```

## B.4. Fungsi memasukkan data yang berasal dari client

```
89 = elseif ((!empty($sensor) && $sensor != "spcmd" && $sensor != "task" && !empty($nilai)) && empty($newSensor)){
reading
90     $sql = "SELECT id_sensor
91     FROM sensor
92     where nama_sensor = '$sensor'";
93     mysql_select_db($dbname);
94     $retval = mysql_query($sql, $conn) or die (mysql_error());
95 = while ($row = mysql_fetch_array($retval, MYSQL_ASSOC)){
96         $ids = $row['id_sensor'];
97     }
98 = if ($ids != ""){
99         $order = "INSERT INTO log_sensor
100         (id_log, user_auth, id_sensor, val_sensor, time_update)
101         VALUES
102         (null, '$auth', '$ids', '$nilai', now())";
103         mysql_select_db($dbname);
104         $result = mysql_query($order, $conn); //order executes
105 = if (! $result){
106             mysql_close($conn);
107             print "upload";
108             $erResp = errResponse("500");
109             print $erResp;
110             exit();
111         }
112         mysql_close($conn);
113         //--cek task
114         //--cekTask(idUser, namaSensor, nilaiSensor)
115         $talkback = cekTask($id, $sensor, $nilai);
116         $myObj = new stdClass();
117         $myObj->Sensor = $sensor;
118         $myObj->Nilai = $nilai;
119         $myObj->Talkback = $talkback;
120         $myObj->Waktu = date("Y-m-d H:i:s");
121         $myObj->Status = "Berhasil";
122         $myJSON = json_encode($myObj);
123         print $myJSON;
124     }
125 }
```

## C. Source Code Tampilan Aplikasi

### C.1.1. Menu Register

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <link rel="stylesheet" type="text/css" href="./css/bootstrap.css">
    <link href="css/styles.css" rel="stylesheet">
    <title>Register</title>
  </head>
  <body>
    <div class="container">
      <div class="row main">
        <div class="col-xs-10 col-xs-offset-1 col-sm-8 col-sm-offset-2 col-md-4
col-md-offset-4">
          <div class="panel">
```



[illegible]

```

        <span      class="input-group-
addon"></span>
        <input      type="password"
class="form-control" name="password" id="password" placeholder="Enter your Password"/>
        </div>
    </div>
</div>

<div class="form-group">
    <label      for="confirm"      class="cols-sm-2
control-label">Confirm Password</label>
    <div class="cols-sm-10">
        <div class="input-group">
            <span      class="input-group-
addon"></span>
            <input      type="password"
class="form-control" name="confirm" id="confirm" onkeyup="cekPassword(); return false;"
placeholder="Confirm your Password"/>
            </div>
            <span
class="statusPass"></span>
            id="statusPass"
        </div>
    </div>

    <div class="form-group ">
        <button      type="submit"      name="submit"
class="btn btn-primary btn-lg btn-block login-button">Register</button>
    </div>
    <div class="login-register">
        <a href="./login.php">Sudah punya akun?</a>
        <span
class="statusTxt"></span>
        id="statusTxt"
    </div>
</div>
</fieldset>
</form>
</div>
</div>
</div>
</div>
</div>
<script type="text/javascript" src="./js/bootstrap.js"></script>
<script>

```

```

function cekPassword(){
    var pass1 = document.getElementById('password');
    var pass2 = document.getElementById('confirm');
    var message = document.getElementById('statusPass');
    var goodColor = "#80ff00";
    var badColor = "#ff6666";
    if(pass1.value == pass2.value){
        pass2.style.backgroundColor = goodColor;
        message.style.color = goodColor;
        message.innerHTML = "Password Sama!";
    }
    else{
        pass2.style.backgroundColor = badColor;
        message.style.color = badColor;
        message.innerHTML = "Password Tidak Sama!";
    }
}
function cekEmail(){
    var mailformat = /^\\w+([\\.-]?\\w+)*@\\w+([\\.-]
]?\\w+)*\\.\\w{2,3})+$/;

    var email = document.getElementById('email');
    var goodColor = "#80ff00";
    var badColor = "#ff6666";
    if(email.value.match(mailformat)){
        email.style.backgroundColor = goodColor;
        message.innerHTML = "Email Valid!";
    }
    else{
        email.style.backgroundColor = badColor;
        message.innerHTML = "Email Tidak Valid!";
    }
}
function clearText(){
    document.getElementById('name').value = "";
    document.getElementById('email').value = "";
    document.getElementById('password').value = "";
    document.getElementById('confirm').value = "";
}
window.onload = clearText;
</script>
</body>
</html>
<?php
    if(isset($_POST['submit'])){

```

```

include './lib/koneksi.php';
include './api/action.php';
$name = $_POST['name'];
$email = $_POST['email'];
$password = $_POST['password'];
if($name != "" || $email != "" || $password != ""){
    $mailparts = explode( '@', $email, 2 );
    $domain = $mailparts[1];
    if (checkdnsrr($domain, "MX")) {                                     //-----start cek
valid domain email

        $conn = mysql_connect($dbhost, $dbuser, $dbpass);
        if(! $conn){
            die('Could not connect: ' . mysql_error());
        }
        $sql = "SELECT id_user
                FROM user
                where email = '$email'";
        mysql_select_db($dbname);
        $retval = mysql_query($sql, $conn) or die (mysql_error());
        while($row = mysql_fetch_array($retval, MYSQL_ASSOC)){
            $id = $row['id_user'];
        }
        if ($id == ""){
            $ranStr = "bgji" . substr(str_shuffle(md5(time())), 0, 10);
            $conn = mysql_connect($dbhost, $dbuser, $dbpass);
            $order = "INSERT INTO user
                    (id_user, user_auth,
name, email, password, level, address, enable, user_update, time_update)
                    VALUES
                    (null, '$ranStr',
'$name', '$email', MD5('$password'), 3, 0, 0, 1, now())";
            mysql_select_db($dbname);
            $result = mysql_query($order, $conn);           //order
executes

            if(! $result){
                echo "Failed insert data";
                mysql_close($conn);
                exit();
            }
            else {
                $fulldata = "<h1>New User JiIOT Added</h1> <br
/>" .
                "<font color='blue' size='6'>"

```

```

"Nama: " . $name . " <br />" .
"Email: " . $email . " <br />" .
"Password: " . $password .

"</font> <br /> </hr> <br />";

$aktif = "

```



```

    }
    else {
        echo "<script>
var message =
document.getElementById('statusTxt');
var badColor = '#ff6666';
message.style.color = badColor;
message.innerHTML = '<br />Isi semua kolom!!!';
</script>";
    }
}
?>

```

### C.1.2. Menu Login

```

<?php
    session_start();
    if(isset($_SESSION['id'])){
        //echo "masih diset";
        session_destroy();
    }
?>

<html>
<head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <title>Login JilOT</title>
    <link href="css/bootstrap.min.css" rel="stylesheet">
    <link href="css/styles.css" rel="stylesheet">
</head>

<body>
    <div class="container">
        <div class="row main">
            <div class="col-xs-10 col-xs-offset-1 col-sm-8 col-sm-offset-2 col-md-4 col-md-
offset-4">
                <div class="panel">
                    <div class="panel-heading">
                        <div class="panel-title text-center">
                            <h1 class="title">Login</h1>

```

```

        </div>
    </div>
    <div class="panel-body">
        <form role="form" method="post" action="./login.php">
            <fieldset>
                <div class="form-group">
                    <input
placeholder="E-mail" name="email" type="email" autofocus=""
                    class="form-control"
                </div>
                <div class="form-group">
                    <input
placeholder="Password" name="password" type="password" value=""
                    class="form-control"
                </div>
                <div class="form-group">
                    <button
name="submit" class="btn btn-primary btn-lg btn-block login-button" type="submit">Login</button>
                </div>
                <div class="login-register">
                    <a
href="./register.php">Belum
punya akun?</a>
                    <span
id="statusTxt"
class="statusTxt"></span>
                </div>
            </fieldset>
        </form>
    </div>
</div>
</div><!-- /.col-->
</div>
</div><!-- /.row -->
</body>
</html>
<?php
    if(isset($_POST['submit'])){
        include './lib/koneksi.php';
        $email = $_POST['email'];
        $password = $_POST['password'];
        if($email != "" && $password != ""){
            $conn = mysql_connect($dbhost, $dbuser, $dbpass);
            if(! $conn){
                die('Could not connect: ' . mysql_error());
            }
            $sql = "SELECT id_user, name, user_auth, enable
                    FROM user

```



?>

## C.2. Menu Dashboard

```
<?php
    session_start();
    if(!isset($_SESSION['id'])){
        unset($_SESSION['id']);
        unset($_SESSION['nama']);
        unset($_SESSION['auth']);
        session_destroy();
        header("Location: ./login.php");
    }
    else{
        $iduser = $_SESSION['id'];
        $namauser = $_SESSION['nama'];
        $authuser = $_SESSION['auth'];
        include './lib/selectData.php';
        $chart1 = selectData($authuser, "nama_sensor", "sensor", 1);
        $chart2 = selectData($authuser, "nama_sensor", "sensor", 2);
        $chart3 = selectData($authuser, "nama_sensor", "sensor", 3);
        $chart4 = selectData($authuser, "nama_sensor", "sensor", 4);
        $chart5 = selectData($authuser, "nama_sensor", "sensor", 5);
    }
?>

<meta http-equiv="cache-control" content="max-age=0">
<meta http-equiv="cache-control" content="no-cache">
<meta http-equiv="expires" content="-1">
<meta http-equiv="expires" content="Tue, 01 Jan 1980 11:00:00 GMT">
<meta http-equiv="pragma" content="no-cache">
    <!--header submenu-->
    <div class="row">
        <ol class="breadcrumb">
            <li><a href="#"><svg class="glyph stroked home"><use
xlink:href="#stroked-home"></use></svg></a></li>
            <li class="active">
                Dashboard
            </li>
        </ol>
    </div>
<?php
    if ($authuser == "bgjifca41d80b6"){
        echo '
```





```

<div class="row"><!--row1-->
    </br>
    <div class="col-md-6">        <!--chart-->
        <div class="panel panel-default">
            <div class="panel-heading">Line Chart <?php echo $chart1;
?></div>

                <div class="panel-body">
                    <div class="canvas-wrapper">
                        <canvas class="main-chart" id="line-chart"
height="282" width="500"></canvas>

                    </div>
                </div>
            </div>
        </div> <!--/.chart-->
        <div class="col-xs-6 col-md-3"><!--piechart-->
            <div class="panel panel-default">
                <div class="panel-body easypiechart-panel">
                    <h4>Chart <?php echo $chart2; ?></h4>
                    <div class="easypiechart" id="pieA" data-
percent="0" ><span class="percent" id="pieAtext">0&deg;</span>
                    </div>
                </div>
            </div>
        </div>
    </div>
    <div class="col-xs-6 col-md-3">
        <div class="panel panel-default">
            <div class="panel-body easypiechart-panel">
                <h4>Chart <?php echo $chart3; ?></h4>
                <div class="easypiechart" id="pieB" data-
percent="0" ><span class="percent" id="pieBtext">0%</span>
                </div>
            </div>
        </div>
    </div>
    <div class="col-xs-6 col-md-3">
        <div class="panel panel-default">
            <div class="panel-body easypiechart-panel">
                <h4>Chart <?php echo $chart4; ?></h4>
                <div class="easypiechart" id="pieC" data-
percent="0" ><span class="percent" id="pieCtext">0</span>
                </div>
            </div>
        </div>
    </div>
</div>

```

```

        </div>
        <div class="col-xs-6 col-md-3">
            <div class="panel panel-default">
                <div class="panel-body easypiechart-panel">
                    <h4>Chart <?php echo $chart5; ?></h4>
                    <div class="easypiechart" id="pieD" data-
percent="0" ><span class="percent" id="pieDtext">0</span>
                    </div>
                </div>
            </div>
        </div><!--/.piechart&sup2;&sup3;-->
    </div><!--/.row-->
    <div class="row"><!--row3-->
        <div class="col-lg-12"><!--table-->
            <div class="panel panel-default">
                <div class="panel-heading">Log Record Sensor
Reading</div>
                <div class="panel-body">
                    <table data-toggle="table" id="table-style" data-
url="./tables/logsensor<?php echo $authuser; ?>.json" data-row-style="rowStyle">
                        <thead>
                            <tr>
                                <th data-field="Sensor" data-align="center"
>Nama Sensor</th>
                                <th data-field="Nilai" data-align="center"
>Nilai Sensor</th>
                                <th data-field="Waktu" data-align="center"
>Waktu</th>
                            </tr>
                        </thead>
                    </table>
                </div>
            </div><!--/.table-->
        </div><!--/.row-->
    <script
src="https://cdnjs.cloudflare.com/ajax/libs/jquery/1.11.1/jquery.min.js"></script>
    <script src="js/chart.min.js"></script>
    <script src="js/easypiechart.js"></script>
    <script src="js/bootstrap-table.js"></script>
    <!--
    <script src="js/chart-setup.js"></script>
    <script src="js/easypiechart.js"></script>
    <script src="js/jquery-1.11.1.min.js"></script>

```

```

<script src="js/chart.min.js"></script>
<script src="js/bootstrap-table.js"></script>

-->
<script>
    var auth = '<?php echo $authuser; ?>';
    $.getJSON('http://iotcampus.net/jiiot/api/lihat.php?key=' + auth +
'&menu=logsensor&limit=5&type=file', function(d_time) {

        });
</script>
<script>
$(document).ready(function(){
    var auth = '<?php echo $authuser; ?>';
    var dataWaktu = [];
    var dataNilai = [];
    var dateFull = [];
    var dataWaktuH = [];
    var dataNilaiH = [];
    var dateFullH = [];
    $.getJSON('http://iotcampus.net/jiiot/api/lihat.php?key=' + auth +
'&widget=1&limit=6', function(jd) {
        lenData = jd.length;
        for (a = lenData-1; a >= 0; a--){
            d = new Date(jd[a].Waktu);
            v = jd[a].Nilai;
            jam = d.getHours() + ':' + d.getMinutes() + ':' + d.getSeconds();
            dataWaktu.push(jam);
            dataNilai.push(v);
            dateFull.push(d);
        }

        var canvas = document.getElementById('line-chart'),
        ctx = canvas.getContext('2d'),
        startingData = {
            labels: dataWaktu,
            datasets: [
                {
                    label : "Temp",
                    fillColor : "rgba(48, 164, 255, 0.2)",
                    strokeColor : "rgba(48, 164, 255, 1)",
                    pointColor : "rgba(48, 164, 255, 1)",
                    pointStrokeColor : "#fff",
                    pointHighlightFill : "#fff",

```

```

        pointHighlightStroke : "rgba(48, 164, 255, 1)",
        data: dataNilai
    }
]
}
var myLiveChart = new Chart(ctx).Line(startingData, {responsive: true});
var n_data = "";
var t_data = "";
var v_data = "";
var n_pieA = "";
var t_pieA = "";
var v_pieA = "";
var n_pieB = "";
var t_pieB = "";
var v_pieB = "";
var n_pieC = "";
var t_pieC = "";
var v_pieC = "";
var n_pieD = "";
var t_pieD = "";
var v_pieD = "";
setInterval(function(){
//-----linechart
    var auth = '<?php echo $authuser; ?>';
    $.getJSON('http://iotcampus.net/jiiot/api/lihat.php?key=' + auth +
'&widget=1&limit=1&' + Math.random(), function(d_time) {
        if (typeof d_time[0] !== 'undefined'){
            var d = new Date(d_time[0].Waktu);
            t_data = d.getHours() + ':' + d.getMinutes() + ':' +
d.getSeconds();

            v_data = d_time[0].Nilai;
            if (t_data !== n_data){

                $.getJSON('http://iotcampus.net/jiiot/api/lihat.php?key=' + auth +
'&menu=logsensor&limit=5&type=file&' + Math.random(), function(d_time) {

                    });
                }
            }
        });
//pie A
    $.getJSON('http://iotcampus.net/jiiot/api/lihat.php?key=' + auth +
'&widget=2&limit=1&' + Math.random(), function(d_time) {
        if (typeof d_time[0] !== 'undefined'){

```

```

        var d = new Date(d_time[0].Waktu);
        t_pieA = d.getHours() + ':' + d.getMinutes() + ':' +
d.getSeconds();

        v_pieA = d_time[0].Nilai;
        if (t_pieA != n_pieA){

            $.getJSON('http://iotcampus.net/jiiot/api/lihat.php?key=' + auth +
            '&menu=logsensor&limit=5&type=file&' + Math.random(), function(d_time) {

                });
            }
        }
    });
    //pie B
    $.getJSON('http://iotcampus.net/jiiot/api/lihat.php?key=' + auth +
    '&widget=3&limit=1&' + Math.random(), function(d_time) {
        if (typeof d_time[0] !== 'undefined'){
            var d = new Date(d_time[0].Waktu);
            t_pieB = d.getHours() + ':' + d.getMinutes() + ':' +
d.getSeconds();

            v_pieB = d_time[0].Nilai;
            if (t_pieB != n_pieB){

                $.getJSON('http://iotcampus.net/jiiot/api/lihat.php?key=' + auth +
                '&menu=logsensor&limit=5&type=file&' + Math.random(), function(d_time) {

                    });
                }
            }
        }
    });
    //pie C
    $.getJSON('http://iotcampus.net/jiiot/api/lihat.php?key=' + auth +
    '&widget=4&limit=1&' + Math.random(), function(d_time) {
        if (typeof d_time[0] !== 'undefined'){
            var d = new Date(d_time[0].Waktu);
            t_pieC = d.getHours() + ':' + d.getMinutes() + ':' +
d.getSeconds();

            v_pieC = d_time[0].Nilai;
            if (t_pieC != n_pieC){

                $.getJSON('http://iotcampus.net/jiiot/api/lihat.php?key=' + auth +
                '&menu=logsensor&limit=5&type=file&' + Math.random(), function(d_time) {

                    });
                }
            }
        }
    });

```



```

        }
    }
    });
    //pie D
    $.getJSON('http://iotcampus.net/jiiot/api/lihat.php?key=' + auth +
    '&widget=5&limit=1&' + Math.random(), function(d_time) {
        if (typeof d_time[0] !== 'undefined'){
            var d = new Date(d_time[0].Waktu);
            t_pieD = d.getHours() + ':' + d.getMinutes() + ':' +
d.getSeconds();

            v_pieD = d_time[0].Nilai;
            if (t_pieD != n_pieD){

                $.getJSON('http://iotcampus.net/jiiot/api/lihat.php?key=' + auth +
                '&menu=logsensor&limit=5&type=file&' + Math.random(), function(d_time) {

                    });
                }
            }
        });
        //$.getJSON('http://iotcampus.net/jiiot/api/lihat.php?key=' +
auth + '&menu=logsensor&limit=5&type=file', function(d_time) {

        //});
        if (t_pieA != n_pieA){
            n_pieA = t_pieA;
            //push data
            //-----piechart
            $('#pieA').data('easyPieChart').update(v_pieA);
            $('#pieAtext').html(v_pieA+'&deg;');
            //-----table
            $.getJSON('./tables/logsensor' + auth + '.json', function
(dataJson) {

                var newData = [];
                $.each(dataJson, function(index, value) {
                    newData.push(value);
                    $('#table-
style').bootstrapTable('load',newData);

                    //console.log(newData);

                });
            });
        }
        if (t_pieB != n_pieB){
            n_pieB = t_pieB;

```

```

//push data
//-----piechart
$('#pieB').data('easyPieChart').update(v_pieB);
$('#pieBtext').html(v_pieB+'%');
//-----table
$.getJSON('./tables/logsensor' + auth + '.json', function
(dataJson) {
    var newData = [];
    $.each(dataJson, function(index, value) {
        newData.push(value);
        $('#table-
style').bootstrapTable('load',newData);
        //console.log(newData);
    });
});
}
if (t_pieC != n_pieC){
    n_pieC = t_pieC;
    //push data
    //-----piechart
    $('#pieC').data('easyPieChart').update(v_pieC);
    //$('#pieCtext').html(v_pieC+'&sup2;');
    $('#pieCtext').html(v_pieC);
    //-----table
    $.getJSON('./tables/logsensor' + auth + '.json', function
(dataJson) {
        var newData = [];
        $.each(dataJson, function(index, value) {
            newData.push(value);
            $('#table-
style').bootstrapTable('load',newData);
            //console.log(newData);
        });
    });
}
if (t_pieD != n_pieD){
    n_pieD = t_pieD;
    //push data
    //-----piechart
    $('#pieD').data('easyPieChart').update(v_pieD);
    //$('#pieDtext').html(v_pieD+'&sup3;');
    $('#pieDtext').html(v_pieD);
    //-----table

```

```

        $.getJSON('./tables/logsensor' + auth + '.json', function
(dataJson) {
            var newData = [];
            $.each(dataJson, function(index, value) {
                newData.push(value);
                $('#table-
style').bootstrapTable('load',newData);

                //console.log(newData);
            });
        });
    }
    if (t_data != n_data){
        n_data = t_data;
        //push data
        //-----piechart
        //$('#pieC').data('easyPieChart').update(v_data);
        //$('#pieCtext').html(v_data+'&deg;C');
        //-----linechart
        myLiveChart.addData([v_data],n_data);
        // Remove the first point
        myLiveChart.removeData();
        $.getJSON('./tables/logsensor' + auth + '.json', function
(dataJson) {
            var newData = [];
            $.each(dataJson, function(index, value) {
                newData.push(value);
                $('#table-
style').bootstrapTable('load',newData);

                //console.log(newData);
            });
        });
    }
    }, 300000);
});

$(function() {
    $('#pieA').easyPieChart({
        scaleColor: true,
        lineCap:'circle',
        lineWidth: 10,
        barColor: '#30a5ff' //blue
    });
    $('#pieB').easyPieChart({

```

```

        scaleColor: true,
        lineCap: 'circle',
        lineWidth: 10,
        barColor: '#ffb53e' //orange
    });
    $('#pieC').easyPieChart({
        scaleColor: true,
        lineCap: 'circle',
        lineWidth: 10,
        barColor: '#1ebfae' //teal
    });
    $('#pieD').easyPieChart({
        scaleColor: true,
        lineCap: 'circle',
        lineWidth: 10,
        barColor: '#f9243f' //red
    });
});
</script>

```

### C.3. Menu Record Data

```

<?php
    session_start();
    if(!isset($_SESSION['id'])){
        unset($_SESSION['id']);
        unset($_SESSION['nama']);
        unset($_SESSION['auth']);
        session_destroy();
        header("Location: ./login.php");
    }
    else{
        $iduser = $_SESSION['id'];
        $namauser = $_SESSION['nama'];
        $authuser = $_SESSION['auth'];
        include './lib/selectData.php';
        $total1 = selectData($authuser, "total", "sensor", 0);
        $total2 = selectData($authuser, "total", "log_sensor", 0);
        $total3 = selectData($authuser, "total", "log_queue", 0);
        $total4 = selectData($authuser, "total", "task", 0);
    }
?>

<!--header submenu-->

```

```

<div class="row">
    <ol class="breadcrumb">
        <li><a href="#"><svg class="glyph stroked home"><use
xlink:href="#stroked-home"></use></svg></a></li>
        <li class="active">
            Log Record Data
        </li>
    </ol>
</div><!--/.row-->
<!--/.header submenu-->
<div class="row">
    &nbsp;
</div>
<div class="row">
    <div class="col-xs-12 col-md-6 col-lg-3">
        <div class="panel panel-blue panel-widget ">
            <div class="row no-padding">
                <div class="col-sm-3 col-lg-5 widget-left">
                    <svg class="glyph stroked wireless
router"><use xlink:href="#stroked-wireless-router"/></svg>
                </div>
                <div class="col-sm-9 col-lg-7 widget-right">
                    <div class="large"><?php echo $total1;
?></div>
                    <div class="text-muted">Total Sensor</div>
                </div>
            </div>
        </div>
    </div>
    <div class="col-xs-12 col-md-6 col-lg-3">
        <div class="panel panel-orange panel-widget">
            <div class="row no-padding">
                <div class="col-sm-3 col-lg-5 widget-left">
                    <svg class="glyph stroked line-graph"><use
xlink:href="#stroked-line-graph"></use></svg>
                </div>
                <div class="col-sm-9 col-lg-7 widget-right">
                    <div class="large"><?php echo $total2;
?></div>
                    <div class="text-muted">Total Log
Sensor</div>
                </div>
            </div>
        </div>
    </div>
</div>

```

```

</div>
<div class="col-xs-12 col-md-6 col-lg-3">
    <div class="panel panel-teal panel-widget">
        <div class="row no-padding">
            <div class="col-sm-3 col-lg-5 widget-left">
                <svg class="glyph stroked notepad "><use
xlink:href="#stroked-notepad"/></svg>
            </div>
            <div class="col-sm-9 col-lg-7 widget-right">
                <div class="large"><?php echo $total3;
?></div>
                <div class="text-muted">Total Log
Queue</div>
            </div>
        </div>
    </div>
</div>
<div class="col-xs-12 col-md-6 col-lg-3">
    <div class="panel panel-red panel-widget">
        <div class="row no-padding">
            <div class="col-sm-3 col-lg-5 widget-left">
                <svg class="glyph stroked clipboard with
paper"><use xlink:href="#stroked-clipboard-with-paper"/></svg>
            </div>
            <div class="col-sm-9 col-lg-7 widget-right">
                <div class="large"><?php echo $total4;
?></div>
                <div class="text-muted">Total Task</div>
            </div>
        </div>
    </div>
</div>
</div><!--/.row-->
<div class="row">
    <div class="col-lg-12">
        <div class="panel panel-default">
            <div class="panel-heading">Table Log Sensor</div>
            <div class="panel-body">
                <table data-toggle="table" data-
url="/tables/logsensor<?php echo $authuser; ?>.json" data-show-refresh="true" data-show-
toggle="true" data-show-columns="true" data-search="true" data-select-item-
name="toolbar1" data-pagination="true" data-sort-name="name" data-sort-order="desc">
                    <thead>
                    <tr>

```

```

        <th data-field="Sensor" data-
sortable="true">Nama Sensor</th>
        <th data-field="Nilai" data-
sortable="true">Nilai Sensor</th>
        <th data-field="Waktu" data-
sortable="true">Waktu</th>
    </tr>
</thead>
</table>
</div>
</div>
</div>
</div><!--/.row-->

<script src="js/jquery-1.11.1.min.js"></script>
<script src="js/bootstrap-table.js"></script>
<script>
var auth = '<?php echo $authuser; ?>';
$.getJSON('http://localhost/jiiot/api/lihat.php?key=' + auth +
'&menu=logsensor&limit=50&type=file', function(d_time) {

    });
</script><?php
session_start();
if(!isset($_SESSION['id'])){
    unset($_SESSION['id']);
    unset($_SESSION['nama']);
    unset($_SESSION['auth']);
    session_destroy();
    header("Location: ./login.php");
}
else{
    $iduser = $_SESSION['id'];
    $namauser = $_SESSION['nama'];
    $authuser = $_SESSION['auth'];
    include './lib/selectData.php';
    $total1 = selectData($authuser, "total", "sensor", 0);
    $total2 = selectData($authuser, "total", "log_sensor", 0);
    $total3 = selectData($authuser, "total", "log_queue", 0);
    $total4 = selectData($authuser, "total", "task", 0);
}
?>

<!--header submenu-->
<div class="row">

```

```

        <ol class="breadcrumb">
            <li><a href="./#"><svg class="glyph stroked home"><use
xlink:href="#stroked-home"></use></svg></a></li>
            <li class="active">
                Log Record Data
            </li>
        </ol>
    </div><!--/.row-->
<!--/.header submenu-->
<div class="row">
    &nbsp;
</div>
<div class="row">
    <div class="col-xs-12 col-md-6 col-lg-3">
        <div class="panel panel-blue panel-widget ">
            <div class="row no-padding">
                <div class="col-sm-3 col-lg-5 widget-left">
                    <svg class="glyph stroked wireless
router"><use xlink:href="#stroked-wireless-router"/></svg>
                </div>
                <div class="col-sm-9 col-lg-7 widget-right">
                    <div class="large"><?php echo $total1;
?></div>
                    <div class="text-muted">Total Sensor</div>
                </div>
            </div>
        </div>
    </div>
    <div class="col-xs-12 col-md-6 col-lg-3">
        <div class="panel panel-orange panel-widget">
            <div class="row no-padding">
                <div class="col-sm-3 col-lg-5 widget-left">
                    <svg class="glyph stroked line-graph"><use
xlink:href="#stroked-line-graph"></use></svg>
                </div>
                <div class="col-sm-9 col-lg-7 widget-right">
                    <div class="large"><?php echo $total2;
?></div>
                    <div class="text-muted">Total Log
Sensor</div>
                </div>
            </div>
        </div>
    </div>
</div>

```



```

<div class="col-xs-12 col-md-6 col-lg-3">
    <div class="panel panel-teal panel-widget">
        <div class="row no-padding">
            <div class="col-sm-3 col-lg-5 widget-left">
                <svg class="glyph stroked notepad "><use
xlink:href="#stroked-notepad"/></svg>
            </div>
            <div class="col-sm-9 col-lg-7 widget-right">
                <div class="large"><?php echo $total3;
?></div>
                <div class="text-muted">Total Log
Queue</div>
            </div>
        </div>
    </div>
</div>
<div class="col-xs-12 col-md-6 col-lg-3">
    <div class="panel panel-red panel-widget">
        <div class="row no-padding">
            <div class="col-sm-3 col-lg-5 widget-left">
                <svg class="glyph stroked clipboard with
paper"><use xlink:href="#stroked-clipboard-with-paper"/></svg>
            </div>
            <div class="col-sm-9 col-lg-7 widget-right">
                <div class="large"><?php echo $total4;
?></div>
                <div class="text-muted">Total Task</div>
            </div>
        </div>
    </div>
</div>
</div><!--/.row-->
<div class="row">
    <div class="col-lg-12">
        <div class="panel panel-default">
            <div class="panel-heading">Table Log Sensor</div>
            <div class="panel-body">
                <table data-toggle="table" data-
url="/tables/logsensor<?php echo $authuser; ?>.json" data-show-refresh="true" data-show-
toggle="true" data-show-columns="true" data-search="true" data-select-item-
name="toolbar1" data-pagination="true" data-sort-name="name" data-sort-order="desc">
                    <thead>
                    <tr>

```

```

sortable="true">Nama Sensor</th>
sortable="true">Nilai Sensor</th>
sortable="true">Waktu</th>
</tr>
</thead>
</table>
</div>
</div>
</div>
</div><!--/.row-->

<script src="js/jquery-1.11.1.min.js"></script>
<script src="js/bootstrap-table.js"></script>
<script>
var auth = '<?php echo $authuser; ?>';
$.getJSON('http://localhost/jiiot/api/lihat.php?key=' + auth +
'&menu=logsensor&limit=50&type=file', function(d_time) {

});
</script>

```

#### C.4. Menu Queue

```

<?php
    session_start();
    if(!isset($_SESSION['id'])){
        unset($_SESSION['id']);
        unset($_SESSION['nama']);
        unset($_SESSION['auth']);
        session_destroy();
        header("Location: ./login.php");
    }
    else{
        $iduser = $_SESSION['id'];
        $namauser = $_SESSION['nama'];
        $authuser = $_SESSION['auth'];
        include './lib/selectData.php';
    }
?>

<!--header submenu-->

```

```

<div class="row">
  <ol class="breadcrumb">
    <li><a href="/#"><svg class="glyph stroked home"><use
xlink:href="#stroked-home"></use></svg></a></li>
    <li class="active">
      Queue
    </li>
  </ol>
</div><!--/.row-->
<div class="row">
  <div class="col-lg-12">
    <h2 class="page-header">Queue Commands</h2>
  </div>
</div><!--/.row-->
<!--/.header submenu-->

<div class="row">
  <div class="col-md-4">
    <div class="panel panel-teal">
      <div class="panel-heading dark-overlay"><svg class="glyph
stroked gear"><use xlink:href="#stroked-gear"/></svg>Control Button</div>
      <div class="panel-body">
        <center>
          <ul class="todo-list">
            <li class="todo-list-item">
              <button type="submit" class="btn
btn-block" id="A" style="color: #fff; background-color: #449d44" onclick="sendCmd('A')">Send
Command : A</button>
            </li>
            <li class="todo-list-item">
              <button type="submit" class="btn
btn-block" id="B" style="color: #fff; background-color: #428bca" onclick="sendCmd('B')">Send
Command : B</button>
            </li>
            <li class="todo-list-item">
              <button type="submit" class="btn
btn-block" id="C" style="color: #fff; background-color: #5cb85c" onclick="sendCmd('C')">Send
Command : C</button>
            </li>
            <li class="todo-list-item">
              <button type="submit" class="btn
btn-block" id="D" style="color: #fff; background-color: #5bc0de" onclick="sendCmd('D')">Send
Command : D</button>
            </li>
          </ul>
        </center>
      </div>
    </div>
  </div>
</div>

```

```

        <li class="todo-list-item">
            <button type="submit" class="btn
btn-block" id="E" style="color: #fff; background-color: #ec971f" onclick="sendCmd('E')">Send
Command : E</button>

        </li>
    </ul>
</center>
</div>
<div class="panel-footer">
    <div class="input-group">
        <input id="spcmd" type="text" class="form-
control input-md" placeholder="Add special commands" />
        <span class="input-group-btn">
            <button type="submit" class="btn
btn-primary btn-md" id="txt" onclick="sendCmd('txt')">Send</button>
        </span>
    </div>
</div>
</div>
</div>
<div class="col-md-8">
    <div class="panel panel-danger">
        <div class="panel-heading dark-overlay"><svg class="glyph
stroked notepad ">
            <use          xlink:href="#stroked-notepad"/></svg>To-do
Commands</div>
        <div class="panel-body">
            <table data-toggle="table" id="tableQ" data-
url="/tables/logcmd0<?php echo $authuser; ?>.json" data-row-style="rowStyle" data-
pagination="true">
                <thead>
                    <tr>
                        <th data-field="Perintah" data-align="left"
>Perintah</th>
                        <th data-field="Status" data-align="center"
>Status</th>
                        <th data-field="Dibuat" >Dibuat</th>
                    </tr>
                </thead>
            </table>
        </div>
    </div>
</div>

```

```
<th data-field="Dibuat" >Dibuat</th>
```

```

                <th data-field="Diubah" >Diubah</th>
            </tr>
        </thead>
    </table>
</div>
</div>
</div>
</div><!--/.row-->

<script src="js/jquery-1.11.1.min.js"></script>
<script src="js/bootstrap-table.js"></script>
<script>
    $(document).ready(function(){
        var auth = '<?php echo $authuser; ?>';
        $.getJSON('http://iotcampus.net/jiiot/api/lihat.php?key=' + auth +
'&menu=logcmd&status=0&limit=100&type=file', function(d_time) {

            });
            $.getJSON('http://iotcampus.net/jiiot/api/lihat.php?key=' + auth +
'&menu=logcmd&status=all&limit=100&type=file', function(d_time) {

            });
            cekData();
        });
        function sendCmd(valBtn){
            var auth = '<?php echo $authuser; ?>';
            var spcmdTxt = document.getElementById("spcmd").value;
            if (valBtn == "txt"){
                valBtn = spcmdTxt;
            }
            if (valBtn != ""){
                var url = "http://iotcampus.net/jiiot/api/kirim.php";
                var params = 'key=' + auth + '&sensor=spcmd' + '&nilai=' + valBtn;
                var http = new XMLHttpRequest();
                http.open("GET", url+"?" +params, true);
                http.onreadystatechange = function(){
                    if(http.readyState == 4 && http.status == 200) {
                        //alert(http.responseText);
                        location.reload();
                        $table.bootstrapTable('refresh');
                        document.getElementById("spcmd").value = "";
                    }
                }
                http.send(null);
            }
        }
    }

```

```

        $table.bootstrapTable('refresh');
        document.getElementById("spcmd").value = "";
    }
}
</script>
<script>
    setInterval(function(){
        cekData();
    }, 300000);
    var auth = '<?php echo $authuser; ?>';
    var n_tblQ = "";
    var t_tblQ = "";
    var v_tblQ = "";
    var n_tblQall = "";
    var t_tblQall = "";
    var v_tblQall = "";
    var valQ = "";
    var n_valQ = "";
    function cekData(){
        $.getJSON('http://iotcampus.net/jiiot/api/lihat.php?key=' + auth +
'&menu=logcmd&status=0&limit=1', function(d_time) {
            var d = new Date(d_time[0].Dibuat);
            t_tblQ = d.getHours() + ':' + d.getMinutes() + ':' + d.getSeconds();
            v_tblQ = d_time[0].Nilai;
            if (t_tblQ != n_tblQ){
                //console.log(t_tblQ);
                $.getJSON('http://iotcampus.net/jiiot/api/lihat.php?key='
+ auth + '&menu=logcmd&status=0&limit=100&type=file', function(d_time) {
                    });
            }
        });
        $.getJSON('http://iotcampus.net/jiiot/api/lihat.php?key=' + auth +
'&menu=logcmd&status=all&limit=1', function(d_time) {
            var d = new Date(d_time[0].Dibuat);
            t_tblQall = d.getHours() + ':' + d.getMinutes() + ':' +
d.getSeconds();

            v_tblQall = d_time[0].Nilai;
            if (t_tblQall != n_tblQall){
                //console.log(t_tblQ);
                $.getJSON('http://iotcampus.net/jiiot/api/lihat.php?key='
+ auth + '&menu=logcmd&status=all&limit=100&type=file', function(d_time) {
                    });
            }
        });
    }
}

```

```

        valQ = <?php selectData($authuser, "total", "log_queue", 0, "status=0");
?>;

        if (valQ != n_valQ){
            n_valQ = valQ;
            $.getJSON('http://iotcampus.net/jiiot/api/lihat.php?key=' + auth +
'&menu=logcmd&status=0&limit=100&type=file', function(d_time) {
                });
            $.getJSON('./tables/logcmd0' + auth + '.json', function (dataJson) {
                var newData = [];
                $.each(dataJson, function(index, value) {
                    newData.push(value);
                    $('#tableQ').bootstrapTable('load',newData);
                });
            });
        }

        if (t_tblQ != n_tblQ){
            n_tblQ = t_tblQ;
            $.getJSON('./tables/logcmd0' + auth + '.json', function (dataJson) {
                var newData = [];
                $.each(dataJson, function(index, value) {
                    newData.push(value);
                    $('#tableQ').bootstrapTable('load',newData);
                });
            });
            //console.log(n_tblQ);
        }
        if (t_tblQall != n_tblQall){
            n_tblQall = t_tblQall;
            $.getJSON('./tables/logcmdall' + auth + '.json', function (dataJson)
{
                var newData = [];
                $.each(dataJson, function(index, value) {
                    newData.push(value);
                    $('#tableQall').bootstrapTable('load',newData);
                });
            });
            //console.log(n_tblQ);
        }
    }
</script>

```

### C.5. Menu Configuration

<?php



```

session_start();
if(!isset($_SESSION['id'])){
    unset($_SESSION['id']);
    unset($_SESSION['nama']);
    unset($_SESSION['auth']);
    session_destroy();
    header("Location: ./login.php");
}
else{
    $iduser = $_SESSION['id'];
    $namauser = $_SESSION['nama'];
    $authuser = $_SESSION['auth'];
}
?>

<meta http-equiv="cache-control" content="max-age=0">
<meta http-equiv="cache-control" content="no-cache">
<meta http-equiv="expires" content="-1">
<meta http-equiv="expires" content="Tue, 01 Jan 1980 11:00:00 GMT">
<meta http-equiv="pragma" content="no-cache">
<link href="./css/bootstrap-editable.css" rel="stylesheet"/>
<script src="./js/bootstrap-editable.min.js"></script>
<!--header submenu-->
<div class="row">
    <ol class="breadcrumb">
        <li><a href="#"><svg class="glyph" stroked home"><use
xlink:href="#stroked-home"></use></svg></a></li>
        <li class="active">
            Configuration
        </li>
    </ol>
</div><!--/.row-->
<!--/.header submenu-->
<div class="row">
    <div class="col-lg-12">
        <h1 class="page-header">Sensor
            <small>configuration </small>
        </h1>
        <div class="panel-heading">
            Your API key : <mark><?php echo $authuser; ?></mark>
        </div></br></br>
        <ul>
            <li>
                Add sensor :

```



```

        <label>Pilih Sensor:</label>
        <select          class="form-control"
id="taskSensor">

                <?php
                    include
                        './lib/koneksi.php';

                        //----cek task
                        $conn          =
mysql_connect($dbhost, $dbuser, $dbpass);

                        if(! $conn){
                            die('Could not
connect: ' . mysql_error());
                        }
                        $task      =      "select
nama_sensor from sensor
                        where
id_user = $iduser
                        ";

                        mysql_select_db($dbname);

                        $retval      =
mysql_query($task, $conn) or die (mysql_error());

                        while($row      =
mysql_fetch_array($retval, MYSQL_ASSOC)){
                            echo
" <option>" . $row['nama_sensor'] . " </option>";
                        }
                ?>
        </select>
        <span          id="pilihSensor"
class="pilihSensor"></span>
    </div>
    <div class="form-group">
        <label>Masukkan Nilai:</label>
        <input          class="form-control"
placeholder="misal: 500, $val > 100, $val (always send)" name="nilaiSensor" id="nilaiSensor"
autofocus="">
    </div>
    <div class="form-group">
        <label>Action:</label>
        <select          class="form-control"
name="taskAction" id="taskAction" onChange="opsiAction()">
            <option value="email">Email
Me</option>

```

```

        <option
value="twitter">Mention me on Twitter</option>
        </select>
    </div>
    <div class="form-group">
        <label>To:</label>
        <input
placeholder="misal: bangjii@gmail.com" id="taskTo" autofocus=""
class="form-control"
        </div>
    <div class="form-group">
        <label id="lblSubject">Subject:</label>
        <input
name="taskSubject" placeholder="misal: kondisi cuaca" id="taskSubject"
class="form-control"
        </div>
    <div class="form-group">
        <label>Message:</label>
        <input
placeholder="misal: sedang hujan lebat, siapkan jaket." id="taskMessage"
class="form-control"
        </div>
    <div class="form-group">
        <button type="submit" name="submit"
id="subname" class="btn btn-primary" onclick="addTask()">Tambah</button>
        <span
id="statusTask"
class="statusTask"></span>
    </div>
</div>
</div>
</div>
</div>
<div class="col-md-8"><!--tablestart-->
    <div class="panel panel-primary">
        <div class="panel-heading">Table Task</div>
        <div class="panel-body">
            <table id="tableLtask" data-toggle="table" data-
url="/tables/listtask<?php echo $authuser; ?>.json" data-show-refresh="true" data-show-
toggle="true" data-show-columns="true" data-search="true" data-select-item-
name="toolbar1" data-pagination="true" data-sort-name="name" data-sort-order="desc">
                <thead>
                    <tr>
                        <th
sortable="true">Nama Sensor</th>
                        <th
data-field="Sensor" data-
sortable="true">Task</th>
                        <th
data-field="Task" data-
sortable="true">Task</th>
                    </tr>
                </thead>
            </table>
        </div>
    </div>
</div>

```

```

                </thead>
            </table>
        </div>
    </div>
</div><!--tableend-->
</div>

<div class="row collapse in" id="tambah">
    <div class="col-md-4">
        <div class="panel panel-info">
            <div class="panel-heading">New Sensor</div>
            <div class="panel-body">
                <div class="form-group">
                    <label>Sensor :</label>
                    <input
placeholder="Nama Sensor" name="tsensor" id="tsensor" autofocus="">
                </div>
                <div class="form-group">
                    <label>Widget :</label>
                    <select
id="widsens">

                <?php
                    include './lib/koneksi.php';
                    //----cek task
                    $conn
mysql_connect($dbhost, $dbuser, $dbpass);

                    if(! $conn){
                        die('Could
connect: ' . mysql_error());
                    }
                    $task = "select nama from
                    where enable
                    = 1
                    ";
                    mysql_select_db($dbname);
                    $retval = mysql_query($task,
                    $conn) or die (mysql_error());
                    while($row
mysql_fetch_array($retval, MYSQL_ASSOC)){
                        echo "<option>"
                        $row['nama'] . "</option>";
                    }
                ?>

```

```

        </select>
    </div>
    <div class="form-group">
        <label>Detail Sensor :</label>
        <textarea class="form-control"
placeholder="Sensor untuk pembacaan..." rows="3" name="tdetail" id="tdetail"></textarea>
    </div>
    <div class="form-group">
        <button type="submit"
name="submit" id="subname" class="btn btn-primary"
onclick="addSensor()">Tambah</button>
        <span id="statusSensor"
class="statusSensor"></span>
    </div>
</div>
</div>
</div>
<div class="col-md-8"><!--tablestart-->
    <div class="panel panel-info">
        <div class="panel-heading">Table Record Sensor</div>
        <div class="panel-body">
            <table id="tableLsensor" data-toggle="table" data-
url="/tables/listsensor<?php echo $authuser; ?>.json" data-show-refresh="true" data-show-
toggle="true" data-show-columns="true" data-search="true" data-select-item-
name="toolbar1" data-pagination="true" data-sort-name="name" data-sort-order="desc">
                <thead>
                    <tr>
                        <th data-field="Sensor" data-
sortable="true">Nama Sensor</th>
                        <th data-field="Widget" data-
sortable="true">Widget</th>
                        <th data-field="Detail" data-
sortable="true">Detail Sensor</th>
                        <th data-field="Waktu" data-
sortable="true">Waktu</th>
                    </tr>
                </thead>
            </table>
        </div>
    </div>
</div><!--tableend-->
</div>

```

```

<script
src="https://cdnjs.cloudflare.com/ajax/libs/jquery/1.11.1/jquery.min.js"></script>
<script src="js/bootstrap-table.js"></script>
<script>
    $(document).ready(function(){
        var auth = '<?php echo $authuser; ?>';
        $.getJSON('http://iotcampus.net/jiiot/api/lihat.php?key=' + auth +
'&menu=listsensor&limit=100&type=file', function(s_time) {

        });
        $.getJSON('http://iotcampus.net/jiiot/api/lihat.php?key=' + auth +
'&menu=listtask&limit=100&type=file', function(t_time) {

        });
        cekData();
    });
</script>
<script>
    setInterval(function(){
        cekData();
    }, 300000);
    var n_sensor = "";
    var t_sensor = "";
    var n_task = "";
    var t_task = "";
    var auth = '<?php echo $authuser; ?>';
    function cekData(){
        $.getJSON('http://iotcampus.net/jiiot/api/lihat.php?key=' + auth +
'&menu=listtask&limit=1&' + Math.random(), function(t_time) {
            if (typeof t_time[0] !== 'undefined'){
                var t = new Date(t_time[0].Waktu);
                t_task = t.getHours() + ':' + t.getMinutes() + ':' +
t.getSeconds();

                v_task = t_time[0].Nilai;
                if (t_task !== n_task){
                    n_task = t_task;
                    $.getJSON('./tables/listtask' + auth + '.json',
function (ltaskJson) {

                        var newDataTask = [];

                        $.each(ltaskJson, function(index, value) {
                            newDataTask.push(value);

                        $('#tableLtask').bootstrapTable('load',newDataTask);

```

```

//console.log(t_task);
});
});
}
}
});
$.getJSON('http://iotcampus.net/jiiot/api/lihat.php?key=' + auth +
'&menu=listsensor&limit=1&' + Math.random(), function(s_time) {
    if (typeof s_time[0] !== 'undefined'){
        var s = new Date(s_time[0].Waktu);
        t_sensor = s.getHours() + ':' + s.getMinutes() + ':' +
s.getSeconds();

        v_sensor = s_time[0].Nilai;
        if (t_sensor != n_sensor){
            n_sensor = t_sensor;
            $.getJSON('./tables/listsensor' + auth + '.json',
function (lsensorJson) {

                var newDataSensor = [];

                $.each(lsensorJson, function(index, value) {
                    newDataSensor.push(value);

                });

                $('#tableLsensor').bootstrapTable('load',newDataSensor);
                //console.log(t_sensor);
            });
        }
    }
});
if (t_task != n_task){
    n_task = t_task;
    $.getJSON('./tables/listtask' + auth + '.json', function (ltaskJson) {
        var newDataTask = [];
        $.each(ltaskJson, function(index, value) {
            newDataTask.push(value);

        });

        $('#tableLtask').bootstrapTable('load',newDataTask);
        //console.log(t_task);
    });
}
if (t_sensor != n_sensor){
    n_sensor = t_sensor;

```



```

        $.getJSON('./tables/listsensor' + auth + '.json', function
(sensorJson) {
            var newDataSensor = [];
            $.each(sensorJson, function(index, value) {
                newDataSensor.push(value);

                $('#tableLsensor').bootstrapTable('load',newDataSensor);
                //console.log(t_sensor);
            });
        });
    }
}
function addSensor(){
    var senTxt = document.getElementById("tsensor").value;
    var senOps = $("#widsens").val();
    var senDet = document.getElementById("tdetail").value;
    var $table = $('#tableLsensor');
    //&sensorbaru=Suhu-Kamar&widget=1&detail= Suhu Kamar Adek Nia
    if (senTxt == "" || senDet == ""){
        var message = document.getElementById('statusSensor');
        var badColor = '#ff6666';
        message.style.color = badColor;
        message.innerHTML = '</br>Isi semua kolom!!!';
        document.getElementById("tsensor").value = "";
        document.getElementById("tdetail").value = "";
    }
    else{
        var url = "http://iotcampus.net/jiiot/api/kirim.php";
        var params = 'key=' + auth + '&sensorbaru=' + senTxt + '&widget='
+ senOps + '&detail=' + senDet;
        var http = new XMLHttpRequest();
        http.open("GET", url+"?" +params, true);
        http.onreadystatechange = function(){
            if(http.readyState == 4 && http.status == 200) {
                //alert(http.responseText);
                location.reload();
                $table.bootstrapTable('refresh');
            }
        }
        http.send(null);
        $table.bootstrapTable('refresh');
    }
}
function addTask(){

```

```

var sensor = $("#taskSensor").val();
var opsi = $("#taskAction").val();
var to = document.getElementById("taskTo").value;
var subject = document.getElementById("taskSubject").value;
var message = document.getElementById("taskMessage").value;
var nilai = document.getElementById("nilaiSensor").value;
var cmd = "";
var $table = $('#tableLtask');
if (opsi == "email"){
    cmd = "case " + nilai + ": act2('email','" + to + "','" + subject + "','" +
message + "'");
    console.log("email");
}
else if (opsi == "twitter"){
    cmd = "case " + nilai + ": act2('twitter','" + to + "','" + message + "',
");
    console.log("twitter");
}
if (to == "" || message == "" || nilai == ""){
    var message = document.getElementById('statusTask');
    var badColor = '#ff6666';
    message.style.color = badColor;
    message.innerHTML = '</br>Isi semua kolom!!!';
    document.getElementById("taskTo").value = "";
    document.getElementById("taskSubject").value = "";
    document.getElementById("taskMessage").value = "";
    document.getElementById("nilaiSensor").value = "";
    console.log("Param kosong");
}
else if(sensor == ""){
    var message = document.getElementById('pilihSensor');
    var badColor = '#ff6666';
    message.style.color = badColor;
    message.innerHTML = '</br>Daftarkan sensor dulu!!!';
}
else{
    console.log(cmd);
    console.log("sensor ga kosong");
    var url = "http://iotcampus.net/jiiot/api/kirim.php";
    var params = 'key=' + auth + '&sensor=task&nilai=' + sensor +
'&taskcmd=' + cmd;
    var http = new XMLHttpRequest();
    http.open("GET", url+"?" + params, true);
    http.onreadystatechange = function(){

```

```

        if(http.readyState == 4 && http.status == 200) {
            //alert(http.responseText);
            location.reload();
            $table.bootstrapTable('refresh');
        }
    }
    http.send(null);
    document.getElementById("taskTo").value = "";
    document.getElementById("taskSubject").value = "";
    document.getElementById("taskMessage").value = "";
    document.getElementById("nilaiSensor").value = "";
    $table.bootstrapTable('refresh');
}
}
//-----on change option dropdown
function opsiAction(){
    if($("#taskAction").val() === 'twitter'){
        $("#taskSubject").hide();
        $("#lblSubject").hide();
        $("#taskTo").attr("placeholder", "misal: @eL_Ghifarii");
    }
    else{
        $("#taskSubject").show();
        $("#lblSubject").show();
        $("#taskTo").attr("placeholder", "misal: bangjii@gmail.com");
    }
}
}
</script>

```

## C.6. Menu Documentation

```

<?php
    session_start();
    if(!isset($_SESSION['id'])){
        unset($_SESSION['id']);
        unset($_SESSION['nama']);
        unset($_SESSION['auth']);
        session_destroy();
        header("Location: ./login.php");
    }
    else{
        $iduser = $_SESSION['id'];
        $namauser = $_SESSION['nama'];
    }
}

```

[illegible]

<div class="panel-body">

JIIOT API ini dapat  
dikoneksikan kedalam perangkat IOT (Arduino, esp8266, Raspberry dll), smartphone,  
ataupun PC. Karena pada dasarnya API ini adalah sebagai  
jembatan dalam berkomunikasi antar perangkat melalui  
cloud service.

Berikut method http GET yang dapat digunakan :

<ol>

<a id="sensor"></a>

#### - Sensor

<p>

Sebelum menggunakan API ini kita harus mendaftarkan nama sensor yang akan digunakan, ini berfungsi sebagai identitas data yang akan dikirimkan melalui perangkat IOT, dimana nilai pembacaan sensor akan dikirim dengan identitas nama sensor tersebut.



<p>

Sensor

format API untuk mendaftarkan nama sensor tersebut adalah :

```
http://iotcampus.net/jiiot/api/kirim.php?key=%isi-auth%&sensorbaru=%nama-  
sensor%</br>
```

dimana key diisi dengan API key yang telah diberikan setelah mendaftar, dan sensorbaru diisi dengan nama sensor yang akan didaftarkan.

Contoh : </br>

<p class="text-danger">

```
http://iotcampus.net/jiiot/api/kirim.php?key=<mark><?php
?></mark>&sensorbaru=Suhu-Kamar</br> echo $authuser;
```

yang nanti akan mendapatkan response  
berupa json : </br>

<p class="bg-primary">

{&lt;/br&gt;

```
<?xml version="1.0" encoding="UTF-8"?>
<Sensor data="100" type="Temperature" location="Kamar"/>
```

```
     "Waktu":"2018-03-01
```

03:42:38",&lt;/br&gt;

&nbsp;&nbsp;&nbsp;"Status":"Berhasil"</br>

</br>

</p>

Untuk catatan, nama sensor diharuskan unik sehingga nama sensor tidak boleh sama. Ini untuk menghindari kesalahan dalam pengolahan data dikarenakan nama sensor sebagai identitas utama terdapat duplikasi (data yang sama).

</p>

<p>

<li><p class="text-success"><b>Lihat Sensor</b></p></li>

Format API untuk melihat nama sensor yang sudah didaftarkan adalah :</br>

http://iotcampus.net/jiiot/api/lihat.php?key=%isi-auth%&menu=%yang-dilihat%&jumlah=%total-lihat%</br>

dimana key diisi dengan API key yang telah diberikan setelah mendaftar, menu diisi dengan "listsensor" (tanpa tanda petik) dan jumlah diisi dengan batas data yang akan dilihat.</br>

Contoh : </br>

<p class="text-danger">

http://iotcampus.net/jiiot/api/lihat.php?key=<mark><?php echo \$authuser; ?></mark>&menu=listsensor&jumlah=3</br>

</p>

yang nanti akan mendapatkan response berupa json : </br>

<p class="bg-primary">

[</br>

&nbsp;&nbsp;&nbsp;{"Sensor":"Suhu-Kamar","Detail":""},</br>

&nbsp;&nbsp;&nbsp;{"Sensor":"Suhu-Luar","Detail":""},</br>

&nbsp;&nbsp;&nbsp;{"Sensor":"Konsidi-Hujan","Detail":""}</br>

]</br>

</p>

Jika kita ingin melihat keseluruhan data, kita dapat mengisi nilai jumlah menjadi "all" (tanpa tanda petik).</br>

Contoh

http://iotcampus.net/jiiot/api/lihat.php?key=<mark><?php echo \$authuser; ?></mark>&menu=sensor&jumlah=all</br>

Maka semua data sensor yang telah didaftarkan yang akan ditampilkan. Untuk nilai dari "Detail" secara default akan kosong, jika kita mendaftarkan melalui API. Detail dapat diisi jika kita mendaftarkan sensor melalui web dashboard dan juga kita dapat merubahnya melalui proses edit menu sensor didalam web dashboard ini.

```
</p>
</ul>
<a id="reading"></a>
<h4><li>Kirim Pembacaan Sensor</li></h4>
<p>
```

Setelah kita sudah mendaftarkan sensor dan kita bisa melihat list sensor yang telah terdaftar, sekarang kita telah siap untuk mengkoneksikan perangkat IOT ataupun perangkat lain menggunakan API ini.

```
</p>
<ul>
<p>
```

```
<li><p class="text-success"><b>Kirim
Pembacaan Sensor Yang Sudah Terdaftar</b></p></li>
```

Format API untuk mengirimkan pembacaan sensor yang sudah didaftarkan adalah :<br>

```
http://iotcampus.net/jiiot/api/kirim.php?key=%isi-auth%&sensor=%nama-
sensor%&nilai=%baca-sensor%</br>
```

dimana key diisi dengan API key yang telah diberikan setelah mendaftar, sensor diisi berdasarkan dari sensor yang dibaca dan yang telah didaftarkan, sedangkan nilai diisi dengan nilai pembacaan sensor tersebut.<br>

```
Contoh : </br>
<p class="text-danger">
```

```
http://iotcampus.net/jiiot/api/kirim.php?key=<mark><?php echo $authuser;
?></mark>&sensor=Suhu-Kamar&nilai=25</br>
```

</p>  
yang nanti akan mendapatkan response berupa json : </br>

```
<p class="bg-primary">
{</br>
```

```
&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;"Sensor":"Suhu-Kamar",</br>
```

```
&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;"Nilai":"29",</br>
```

```
&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;"Waktu":"2018-03-01 03:42:38",</br>
```

&nbsp;&nbsp;&nbsp;"Status":"Berhasil"</br>

</br>

</p>

<li><p class="text-success"><b>Kirim

Perintah Khusus</b></p></li>

Selain dari mengirimkan nilai pembacaan dari sensor yang telah terdaftar, API ini juga dapat menampung kiriman "perintah khusus", yang mana perintah khusus tersebut akan diproses oleh sistem queue (antrian) untuk dijalankan secara berurutan (<code>FIFO</code>, first in first out, pertama masuk pertama keluar).</br>

Format API untuk mengirimkan perintah khusus adalah :</br>

http://iotcampus.net/jiiot/api/kirim.php?key=%isi-auth%&sensor=%isi-angka-0%&nilai=%teks-dikirim%</br>

dimana key diisi dengan API key yang telah diberikan setelah mendaftar, sensor diisi angka "0" (tanpa tanda kutip), sedangkan nilai diisi dengan teks perintah khusus tersebut.</br>

Contoh : </br>

<p class="text-danger">

http://iotcampus.net/jiiot/api/kirim.php?key=<mark><?php echo \$authuser; ?></mark>&sensor=0&nilai=alarm-on</br>

</p>

yang nanti akan mendapatkan response berupa json : </br>

<p class="bg-primary">

{</br>

&nbsp;&nbsp;&nbsp;"Sensor":"Special Command",</br>

&nbsp;&nbsp;&nbsp;"Nilai":"Lampu-A-nyala",</br>

&nbsp;&nbsp;&nbsp;"Waktu":"2018-03-01 04:44:16",</br><a id="log"></a>

&nbsp;&nbsp;&nbsp;"Status":"Berhasil"</br>

</br>

</p>

</p>

</ul>

<h4><li>Log Sensor</li></h4>

<p>





dimana key diisi dengan API key yang telah diberikan setelah mendaftar, menu diisi "logsensor" (tanpa tanda kutip), sedangkan limit diisi berdasarkan batas data yang akan ditampilkan.

Contoh :

`http://iotcampus.net/jiiot/api/lihat.php?key=<mark><?php echo $authuser; ?></mark>&menu=logsensor&name=Suhu-Kamar&limit=3`

yang nanti akan mendapatkan response

berupa json :

`&nbsp;&nbsp;&nbsp;{"Sensor":"Suhu-Kamar","Nilai":"24","Waktu":"2018-03-14 04:14:16"},`

`&nbsp;&nbsp;&nbsp;{"Sensor":"Suhu-`

`Kamar","Nilai":"29","Waktu":"2018-03-14 04:13:38"},`

`&nbsp;&nbsp;&nbsp;{"Sensor":"Suhu-`

`Kamar","Nilai":"25","Waktu":"2018-03-14 04:13:05"}</br>`

`]</br>`

`<li><p class="text-success"><b>Log perintah`

`khusus</b></p></li>`

Format API untuk melihat log perintah

khusus adalah :

`http://iotcampus.net/jiiot/api/lihat.php?key=%isi-auth%&menu=%diisi-logcmd%&status=%diisi-status-cmd%&limit=%total-lihat%`

dimana key diisi dengan API key yang telah diberikan setelah mendaftar, menu diisi "logcmd" (tanpa tanda kutip), sedangkan limit diisi berdasarkan batas data yang akan ditampilkan.

Contoh :

`http://iotcampus.net/jiiot/api/lihat.php?key=<mark><?php echo $authuser; ?></mark>&menu=logcmd&status=0&limit=3`

yang nanti akan mendapatkan response

berupa json :

`&nbsp;&nbsp;&nbsp;{"Sensor":"Special Command","Nilai":"lampC-on","Waktu":"2018-03-14 04:14:16"},</br>`

Command", "Nilai": "alarm-on", "Waktu": "2018-03-14 04:13:38"},</br>

Command", "Nilai": "servo-90", "Waktu": "2018-03-14 04:00:05"}</br>

]

</p>

untuk status dapat diisi berdasarkan jenis data yang ingin dilihat, status=0 untuk data perintah khusus yang belum dijalankan oleh perangkat, status=1 untuk perintah khusus yang sudah dijalankan oleh perangkat dan status=all untuk menampilkan semua data (status 0 & 1) perintah khusus berdasarkan waktu terakhir.

</p>

</ul>

<a id="execute"></a>

<h4><li>Eksekusi Perintah</li></h4>

<p>

Hal terakhir yang API ini dapat lakukan adalah mengeksekusi atau menjalankan perintah yang sebelumnya telah dikirim oleh client. Metode eksekusi perintah ini memakai metode queue (antrian), jadi perintah eksekusi yang akan pertama kali diproses adalah perintah yang time update nya paling awal / lampau (paling lama), sehingga perintah terbaru akan masuk antrian berikutnya setelah antrian sebelumnya telah dieksekusi.

</p>

<ul>

<p>

perintah berdasarkan antrian</b></p></li>

adalah :</br>

http://iotcampus.net/jiiot/api/eksekusi.php?key=%isi-auth%&menu=spcmd</br>

dimana key diisi dengan API key yang telah diberikan setelah mendaftar, menu diisi "spcmd" (tanpa tanda kutip).</br>

Contoh : </br>

<p class="text-danger">

http://iotcampus.net/jiiot/api/eksekusi.php?key=<mark><?php echo \$authuser; ?></mark>&menu=spcmd</br>

</p>

berupa json : </br>

<p class="bg-primary">

[</br>

Command", "Status": "Berhasil", "Waktu": "2018-03-14 04:14:16"}</br>

```

]</br>
</p>
</p>
</ul>
</ol>
</div>
</div>
</div>
</div>

</div>
<!-- Footer -->
<footer>
  <div class="row">
    <div class="col-lg-12">
      <center><p>Copyright &copy; al.ghifari22@gmail.com 2018</p></center>
    </div>
    <!-- /.col-lg-12 -->
  </div>
  <!-- /.row -->
</footer>
  <script src="js/jquery-1.11.1.min.js"></script>
  <script src="js/bootstrap-table.js"></script>
  <script>

    $.getJSON('http://localhost/jiiot/api/lihat.php?key=827ccb0eea8a706c4c34a16891f84e
7b&menu=logsensor&limit=5&type=file', function(d_time) {

    });
  </script>

```