LAMPIRAN

Listing Aplikasi Web

```
<?php
session_start();
if (isset($_SESSION['login'])) {
   header('Location: ./index.php?page=dashboard');
}
include "konfig/function.php";
if (isset($_POST['username']) && isset($_POST['password'])) {
   $username = mysqli_real_escape_string($dbconnect, $_POST['username']);
   $password = mysqli_real_escape_string($dbconnect, $_POST['password']);
   $login = login($username, $password);
   $notice = true;
} else {
   $notice = false;
}
?>


<!DOCTYPE html>
<html lang="en">

<head>
   <meta charset="utf-8" />
   <meta http-equiv="X-UA-Compatible" content="IE=edge" />
   <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no" />
   <meta name="description" content="" />
   <meta name="author" content="" />
   <title>Login System</title>
   <!--favicon-->
   <link rel="icon" href="assets/images/favicon.ico" type="image/x-icon">
   <!-- Bootstrap core CSS-->
   <link href="assets/css/bootstrap.min.css" rel="stylesheet" />
   <!-- animate CSS-->
   <link href="assets/css/animate.css" rel="stylesheet" type="text/css" />
   <!-- Icons CSS-->
   <link href="assets/css/icons.css" rel="stylesheet" type="text/css" />
   <!-- Custom Style-->
   <link href="assets/css/app-style.css" rel="stylesheet" />

</head>

<body>

   <!-- start loader -->
   <div id="pageloader-overlay" class="visible incoming">
      <div class="loader-wrapper-outer">
         <div class="loader-wrapper-inner">
            <div class="loader"></div>
         </div>
      </div>
   </div>
   <!-- end loader -->

   <!-- Start wrapper-->
   <div id="wrapper">

      <div class="loader-wrapper">
         <div class="lds-ring">
            <div></div>
            <div></div>
            <div></div>
            <div></div>
         </div>
      </div>
      <div class="card card-authentication1 mx-auto my-5">
         <div class="card-body">
            <div class="card-content p-2">
               <div class="text-center">
                  <img src="assets/images/logo-icon.png" alt="logo icon">
               </div>
               <div class="card-title text-uppercase text-center py-3">SISTEM KEAMANAN PINTU</div>

               <?php
               if ($notice) {
                  $login = json_decode($login, true);
```

```
                if ($login['error'] == 500)
{
            ?>

                    <div class="alert alert-
outline-warning alert-dismissible mb-
0" role="alert">
                    <button type="butto
n" class="close" data-
dismiss="alert">&times;</button>
                    <div class="alert-
icon">
                        <i class="fa fa-
exclamation-triangle"></i>
                    </div>
                    <div class="alert-
message">
                        <span><strong>F
ailed Login !</strong></span>
                    </div>
                </div>

            <?php
               }
            }
            ?>

            <br>
            <form method="POST">
               <div class="form-
group">
                    <label for="exampleIn
putUsername" class="sr-
only">Username</label>
                    <div class="position-
relative has-icon-right">
                    <input required type
="text" name="username" id="exampleI
nputUsername" class="form-
control input-
shadow" placeholder="Enter Username"
>
                    <div class="form-
control-position">
                        <i class="icon-
user"></i>
                    </div>
                </div>
            </div>

                <div class="form-
group">
                    <label for="exampleIn
putPassword" class="sr-
only">Password</label>
                    <div class="position-
relative has-icon-right">
                    <input required type
="password" name="password" id="exa
mpleInputPassword" class="form-
control input-
shadow" placeholder="Enter Password"
>
                    <div class="form-
control-position">
                        <i class="icon-
lock"></i>
                    </div>
                </div>
            </div>

                <button type="submit" cl
ass="btn btn-primary btn-
block">Login</button>


            </form>
        </div>
    </div>
    <div class="card-footer text-
center py-3">
        <p class="text-dark mb-
0"></p>
    </div>
</div>

<!--Start Back To Top Button-->
<a href="javaScript:void();" class=
"back-to-top"><i class="fa fa-angle-
double-up"></i> </a>
<!--End Back To Top Button-->



</div>
<!--wrapper-->

<!-- Bootstrap core JavaScript-->
<script src="assets/js/jquery.min.js">
</script>
```

```
    <script src="assets/js/popper.min.js">
</script>
    <script src="assets/js/bootstrap.min.js
"></script>

    <!-- sidebar-menu js -->
    <script src="assets/js/sidebar-
menu.js"></script>

    <!-- Custom scripts -->
    <script src="assets/js/app-
script.js"></script>

</body>

</html>


<?php
session_start();
if (!isset($_SESSION['login'])) {
    header('Location: login.php');
}
include 'konfig/function.php';
?>
<!DOCTYPE html>
<html>

<head>
    <meta charset="utf-8" />
    <meta http-equiv="X-UA-
Compatible" content="IE=edge" />
    <meta name="viewport" content="wi
dth=device-width, initial-
scale=1, shrink-to-fit=no" />
    <meta name="description" content=""
 />
    <meta name="author" content="" />
    <title>Door Lock System</title>
    <!--favicon-->
    <link rel="icon" href="assets/images/f
avicon.ico" type="image/x-icon" />
    <!-- Vector CSS -->
    <link href="assets/plugins/vectormap/
jquery-jvectormap-
2.0.2.css" rel="stylesheet" />
    <!-- simplebar CSS-->
    <link href="assets/plugins/simplebar/
css/simplebar.css" rel="stylesheet" />
    <!-- Bootstrap core CSS-->
    <link href="assets/css/bootstrap.min.c
ss" rel="stylesheet" />
    <!--Data Tables -->
    <link href="assets/plugins/bootstrap-
datatable/css/dataTables.bootstrap4.min.
css" rel="stylesheet" type="text/css">
    <link href="assets/plugins/bootstrap-
datatable/css/buttons.bootstrap4.min.css
" rel="stylesheet" type="text/css">
    <!-- animate CSS-->
    <link href="assets/css/animate.css" rel
="stylesheet" type="text/css" />
    <!-- Icons CSS-->
    <link href="assets/css/icons.css" rel="
stylesheet" type="text/css" />
    <!-- Sidebar CSS-->
    <link href="assets/css/sidebar-
menu.css" rel="stylesheet" />
    <!-- Custom Style-->
    <link href="assets/css/app-
style.css" rel="stylesheet" />
    <!-- skins CSS-->
    <link href="assets/css/skins.css" rel="
stylesheet" />

    <!--Select Plugins-->
    <link href="assets/plugins/select2/css/
select2.min.css" rel="stylesheet" />
    <!--inputtags-->
    <link href="assets/plugins/inputtags/c
ss/bootstrap-
tagsinput.css" rel="stylesheet" />
    <!--multi select-->
    <link href="assets/plugins/jquery-
multi-select/multi-
select.css" rel="stylesheet" type="text/cs
s">
    <!--Touchspin-->
    <link href="assets/plugins/bootstrap-
touchspin/css/jquery.bootstrap-
touchspin.css" rel="stylesheet" type="te
xt/css">


</head>

<body>
    <!-- start loader -->
    <div id="pageloader-
overlay" class="visible incoming">
```

```
    <div class="loader-wrapper-
outer">
      <div class="loader-wrapper-
inner">
        <div class="loader"></div>
      </div>
    </div>
  </div>
  <!-- end loader -->

  <!-- Start wrapper-->
  <div id="wrapper">

    <!--Start sidebar-wrapper-->
    <div id="sidebar-wrapper" data-
simplebar="" data-simplebar-auto-
hide="true">
      <div class="brand-logo">
        <a href="index.html">
          <img src="assets/images/lo
go-icon.png" class="logo-
icon" alt="logo icon">
          <h5 class="logo-
text">SISTEM KEAMANAN PINTU</
h5>
        </a>
      </div>
      <ul class="sidebar-menu">
        <li class="sidebar-
header">MAIN NAVIGATION</li>
        <li>
          <a href="./index.php?page=
dashboard" class="waves-effect">
            <i class="zmdi zmdi-
view-
dashboard"></i> <span>Dashboard</sp
an>
          </a>
        </li>
        <li>
          <a href="javaScript:void();"
 class="waves-effect">
            <i class="zmdi zmdi-
cast-connected"></i>
            <span>Log</span>
            <i class="fa fa-angle-
left pull-right"></i>
          </a>
          <ul class="sidebar-
submenu">
            <li><a href="./index.php
?page=accept"><i class="zmdi zmdi-
dot-circle-alt"></i> Accepted</a></li>
            <li><a href="./index.php
?page=reject"><i class="zmdi zmdi-dot-
circle-alt"></i> Rejected</a></li>
          </ul>
        </li>
        <li>
          <a href="javaScript:void();"
 class="waves-effect">
            <i class="zmdi zmdi-
accounts-list-alt"></i>
            <span>Management</spa
n>
            <i class="fa fa-angle-
left pull-right"></i>
          </a>
          <ul class="sidebar-
submenu">
            <li><a href="./index.php
?page=user"><i class="zmdi zmdi-dot-
circle-alt"></i> User</a></li>
            <li><a href="./index.php
?page=admin"><i class="zmdi zmdi-
dot-circle-alt"></i> Admin</a></li>
          </ul>
        </li>
        <li>
          <a href="javaScript:void();"
 class="waves-effect">
            <i class="zmdi zmdi-
settings"></i>
            <span>Settings</span>
            <i class="fa fa-angle-
left pull-right"></i>
          </a>
          <ul class="sidebar-
submenu">
            <li><a href="./index.php
?page=block"><i class="zmdi zmdi-dot-
circle-alt"></i> User Block</a></li>
            <li><a href="./index.php
?page=settings"><i class="zmdi zmdi-
dot-circle-alt"></i> Controller</a></li>
          </ul>
        </li>

      </div>
      <!--End sidebar-wrapper-->
```

```
        <!--Start topbar header-->
        <header class="topbar-nav">
            <nav id="header-
setting" class="navbar navbar-
expand fixed-top">
                <ul class="navbar-nav mr-
auto align-items-center">
                    <li class="nav-item">
                        <a class="nav-
link toggle-
menu" href="javascript:void();">
                            <i class="icon-
menu menu-icon"></i>
                        </a>
                    </li>
                </ul>

                <ul class="navbar-nav align-
items-center right-nav-link">

                    <li class="nav-item">
                        <a class="nav-
link dropdown-toggle dropdown-toggle-
nocaret" data-
toggle="dropdown" href="#">
                            <span class="user-
profile"><img src="assets/images/user.p
ng" class="img-
circle" alt="user avatar"></span>
                        </a>
                        <ul class="dropdown-
menu dropdown-menu-right">
                            <li class="dropdown-
item user-details">
                                <a href="javaScript:
void();">
                                    <div class="medi
a">
                                        <div class="ava
tar"><img class="align-self-start mr-
3" src="assets/images/user.png" alt="use
r avatar"></div>
                                        <div class="me
dia-body">
                                            <h6 class="
mt-2 user-
title">Hello, <?php echo $_SESSION['u
sername'] ?></h6>
                                        </div>
                                    </div>
                                </a>
                            </li>

                            <li class="dropdown-
divider"></li>
                            <a class="dropdown-
item" onclick="logout()"><i class="icon
-power mr-2"></i> Logout</a>
                        </ul>
                    </li>
                </ul>
            </nav>
        </header>
        <!--End topbar header-->

        <div class="clearfix"></div>

        <div class="content-wrapper">
            <div class="container-fluid">
                <?php
                if (isset($_GET['page'])) {
                    $page = $_GET['page'];
                    switch ($page) {
                        case 'dashboard':
                            include "pages/dashboa
rd.php";
                            break;
                        case 'accept':
                            include "pages/log-
accept.php";
                            break;
                        case 'reject':
                            include "pages/log-
reject.php";
                            break;
                        case 'user':
                            include "pages/manage
ment-user.php";
                            break;
                        case 'add-user':
                            include "pages/add-
user.php";
                            break;
                        case 'block':
                            include "pages/user-
block.php";
                            break;
                        case 'access':
```

```
                    include "pages/accessU
ser.php";
                    break;
                case 'settings':
                    include "pages/settings
.php";
                    break;
                case 'admin':
                    include "pages/manage
ment-admin.php";
                    break;
                case 'sketch':
                        include "pages/gener
ate_sketch.php";
                        break;
                default:
                    include "index.php?pa
ge=dashboard";
                    break;
                }
            } else {
                echo "<h4 class='page-
title mt-4'>Blank Page</h4>";
            }
            ?>
        </div>
        <!-- End container-fluid-->

    </div>
    <!--End content-wrapper-->
    <!--Start Back To Top Button-->
    <a href="javaScript:void();" class=
"back-to-top"><i class="fa fa-angle-
double-up"></i> </a>
    <!--End Back To Top Button-->

    <!--Start footer-->
    <footer class="footer" style="positi
on: fixed;">
        <div class="container">
            <div class="text-center">

            </div>
        </div>
    </footer>
    <!--End footer-->


  </div>
  <!--End wrapper-->
```

```
  <!-- Bootstrap core JavaScript-->
  <script src="assets/js/jquery.min.js">
</script>
  <script src="assets/js/popper.min.js">
</script>
  <script src="assets/js/bootstrap.min.js
"></script>

  <!-- simplebar js -->
  <script src="assets/plugins/simplebar/
js/simplebar.js"></script>
  <!-- sidebar-menu js -->
  <script src="assets/js/sidebar-
menu.js"></script>

  <!-- Custom scripts -->
  <script src="assets/js/app-
script.js"></script>

  <!--Data Tables js-->
  <script src="assets/plugins/bootstrap-
datatable/js/jquery.dataTables.min.js"><
/script>
  <script src="assets/plugins/bootstrap-
datatable/js/dataTables.bootstrap4.min.js
"></script>
  <script src="assets/plugins/bootstrap-
datatable/js/dataTables.buttons.min.js">
</script>
  <script src="assets/plugins/bootstrap-
datatable/js/buttons.bootstrap4.min.js">
</script>
  <script src="assets/plugins/bootstrap-
datatable/js/jszip.min.js"></script>
  <script src="assets/plugins/bootstrap-
datatable/js/pdfmake.min.js"></script>
  <script src="assets/plugins/bootstrap-
datatable/js/vfs_fonts.js"></script>
  <script src="assets/plugins/bootstrap-
datatable/js/buttons.html5.min.js"></scri
pt>
  <script src="assets/plugins/bootstrap-
datatable/js/buttons.print.min.js"></scrip
t>
  <script src="assets/plugins/bootstrap-
datatable/js/buttons.colVis.min.js"></scr
ipt>

  <!--Sweet Alerts -->
```

```
    <script src="assets/plugins/alerts-
boxes/js/sweetalert.min.js"></script>
    <script src="assets/plugins/alerts-
boxes/js/sweet-alert-script.js"></script>

    <!--Bootstrap Touchspin Js-->
    <script src="assets/plugins/bootstrap-
touchspin/js/jquery.bootstrap-
touchspin.js"></script>
    <script src="assets/plugins/bootstrap-
touchspin/js/bootstrap-touchspin-
script.js"></script>

    <!--Select Plugins Js-->
    <script src="assets/plugins/select2/js/s
elect2.min.js"></script>
    <!--Inputtags Js-->
    <script src="assets/plugins/inputtags/j
s/bootstrap-tagsinput.js"></script>

    <!--Multi Select Js-->
    <script src="assets/plugins/jquery-
multi-select/jquery.multi-
select.js"></script>
    <script src="assets/plugins/jquery-
multi-
select/jquery.quicksearch.js"></script>



    <!-- data tables -->
    <script>
        $(document).ready(function() {
            //Default data table
            $('#default-
datatable').DataTable();



            var table = $('#example').DataTa
ble({
                lengthChange: false,
                buttons: ['copy', 'excel', 'pdf', '
print', 'colvis']
            });
            table.destroy();
            var table = $('#example').DataTa
ble({
                lengthChange: false,
                buttons: ['copy', 'excel', 'pdf', '
print', ]
            });

            table.buttons().container()
                .appendTo('#example_wrapper
 .col-md-6:eq(0)');

            //multi selection
            $('.multiple-select').select2();

            //end multi selection

        });
    </script>



</body>

</html>


<?php
//================== rest controler
 ======================
include '../konfig/connection.php';
date_default_timezone_set('Asia/Jakarta'
);


function get_settings($controller_token)
{

    global $dbconnect;
    $error = 200;
    $sql = mysqli_query($dbconnect, "SE
LECT * FROM tb_mcu WHERE token
= '$controller_token'");
    $row = mysqli_fetch_assoc($sql);
    $value = ["name" => $row['name'], "t
ype" => $row['type'], "delay" => (int)$r
ow['delay'], "keypad" => $row['keypad_
password'], "token" => $row['token']];
    if (empty($value) || empty($row)) {
        $value = null;
        $error = 500;
    }
    $data = [
        'error' => $error,
        'result' => 'GET SETTINGS',
        'data'  => $value
```

```
    ];
    $json = json_encode($data);
    return $json;
}

function saveData($uid, $token)
{
    global $dbconnect;
    $sql = mysqli_query($dbconnect, "SE
LECT * FROM tb_entry");
    $state = mysqli_fetch_assoc($sql);
    if (!empty($state) && $state['state'] =
= '1') {
        $sql = mysqli_query($dbconnect, "
UPDATE tb_entry SET uid = '$uid' WH
ERE 1 ");  //call function enroll
        if ($sql) {
            $data = [
                'error' => 200,
                'result' => 'add user',
                'message' => 'ADD USER OK'
,
                'access' => 1
            ];
        } else {
            $data = [
                'error' => 500,
                'result' => 'add user',
                'message' => 'SERVICE BUS
Y',
                'access' => 1
            ];
        }

        $json = json_encode($data);
        return $json;
    } else {
        return addingLog($uid, $token);  //c
all function adding log
    }
}

function addingLog($uid, $token)
{
    global $dbconnect;
    $valid = false;
    $datetime = date('Y-m-d H:i:s');
    $sql = mysqli_query($dbconnect, "SE
LECT * FROM tb_user WHERE uid = '
$uid' AND block = '0'");
    $cek = mysqli_num_rows($sql);
    if ($cek > 0) {
        $sql = mysqli_query($dbconnect, "
SELECT * FROM tb_list_access WHE
RE uid = '$uid' AND token = '$token'");
        $cek = mysqli_num_rows($sql);
        if ($cek > 0) {
            $sql = mysqli_query($dbconnect,
 "INSERT INTO tb_log VALUES ('$uid
','$token', '$datetime', '0')");
            $data = [
                'error' => 200,
                'resut' => 'access door lock',
                'message' => 'ACCESS ALLO
WED',
                'uid' => $uid,
                'access' => 0
            ];
            $valid = true;
        }
    }
    if ($valid == false) {
        $sql = mysqli_query($dbconnect, "I
NSERT INTO tb_log VALUES ('$uid', '
$token', '$datetime', '1')");
        $data = [
            'error' => 200,
            'resut' => 'access door lock',
            'message' => 'ACCESS DENIED
',
            'uid' => $uid,
            'access' => 1
        ];
    }

    $json = json_encode($data);
    return $json;
}

<?php

if(isset($_POST['token'])){
    include 'function.php';
    $token = mysqli_real_escape_string($
dbconnect, $_POST['token']);
    echo get_settings($token);
}else{
    $response = [
        'error' => 400,
        'result' => 'TOKEN NOT FOUND'
```

```
    ];
    echo json_encode($response);
}
```

```
<?php
include 'function.php';

$request = file_get_contents('php://input'
);
$data = json_decode($request, true);

if (isset($data["data"]) && isset($data["
key"])) {
    $uid = mysqli_real_escape_string($db
connect, $data['data']);
    $token = mysqli_real_escape_string($
dbconnect, $data['key']);
        echo saveData($uid, $token);
} else {
    $data = [
        'error' => 500,
        'message' => 'REQUEST NOT VA
LID'
    ];
    echo json_encode($data);
}
```

```
<?php
    if(isset($_GET['uid']) && isset($_GE
T['param'])){
        include 'function.php';
        $action = userBlock($_GET['param
'],$_GET['uid']);
        if($action == 0){
            header('location: ../index.php?pa
ge=block&block=true');
        }else{
            header('location: ../index.php?pa
ge=block&block=false');
        }
    }
?>
```

```
<?php
include 'function.php';

if(isset($_POST['username']) && isset($
_POST['password'])){
    $save = saveAdmin($_POST['userna
me'], $_POST['password']);
    if($save == '0'){
        header('location: ../index.php?page
=admin&save=true');
    }else{
        header('location: ../index.php?page
=admin&save=false');
    }
}
```

```
<?php
include 'function.php';
if (isset($_POST['name-
register']) && isset($_POST['type-
register']) && isset($_POST['keypad-
register']) && isset($_POST['delay-
register']) && isset($_POST['token-
register'])) {
    $name = mysqli_real_escape_string($
dbconnect, $_POST['name-register']);
    $type = mysqli_real_escape_string($d
bconnect, $_POST['type-register']);
    $keypad = mysqli_real_escape_string
($dbconnect, $_POST['keypad-
register']);
    $delay = mysqli_real_escape_string($
dbconnect, $_POST['delay-register']);
    $token = mysqli_real_escape_string($
dbconnect, $_POST['token-register']);
    $action = mcuSettings('0', $token, $na
me, $type, $keypad, $delay);

    if ($action == 0) {
        header('location: ../index.php?page
=settings&register=true');
    } else {
        header('location: ../index.php?page
=settings&register=false');
    }
}
else if (isset($_POST['name-
edit']) && isset($_POST['type-
edit']) && isset($_POST['keypad-
```

```
edit']) && isset($_POST['delay-
edit']) && isset($_POST['token-edit'])) {
   $name = mysqli_real_escape_string($
dbconnect, $_POST['name-edit']);
   $type = mysqli_real_escape_string($d
bconnect, $_POST['type-edit']);
   $keypad = mysqli_real_escape_string
($dbconnect, $_POST['keypad-edit']);
   $delay = mysqli_real_escape_string($
dbconnect, $_POST['delay-edit']);
   $token = mysqli_real_escape_string($
dbconnect, $_POST['token-edit']);
   $action = mcuSettings('1', $token, $na
me, $type, $keypad, $delay);

   if ($action == 0) {
      header('location: ../index.php?page
=settings&edit=true');
   } else {
      header('location: ../index.php?page
=settings&edit=false');
   }
}


<?php
deleteEntry();
?>
<div class="row mt-3">
   <div class="col-12 col-lg-4 col-xl-4">
      <div class="card bubble gradient-
rainbow rounded-0">
         <div class="card-body card-
block">
            <div class="media align-
items-center">
               <div class="media-body">
                  <p class="mb-2 text-
white">Total</p>
                  <h3 class="mb-0 text-
white"><?php echo jumlah_row('tb_log',
'!','!')?></h3>
                  <h4 class="extra-small-
font mt-2 mb-0 text-
white">VISITORS</h4>
               </div>
               <div class="position-
relative"><i class="zmdi zmdi-
directions-run fa-5x text-
white"></i></div>
            </div>
         </div>
      </div>
   </div>
   <div class="col-12 col-lg-4 col-xl-4">
      <div class="card bubble gradient-
shifter rounded-0">
         <div class="card-body card-
block">
            <div class="media align-
items-center">
               <div class="media-body">
                  <p class="mb-2 text-
white">Total</p>
                  <h3 class="mb-0 text-
white"><?php echo jumlah_row('tb_user
','!','!')?></h3>
                  <h4 class="extra-small-
font mt-2 mb-0 text-white">USER</h4>
               </div>
               <div class="position-
relative"><i class="zmdi zmdi-
accounts fa-5x text-white"></i></div>
            </div>
         </div>
      </div>
   </div>
   <div class="col-12 col-lg-4 col-xl-4">
      <div class="card bubble gradient-
meridian rounded-0">
         <div class="card-body card-
block">
            <div class="media align-
items-center">
               <div class="media-body">
                  <p class="mb-2 text-
white">Total</p>
                  <h3 class="mb-0 text-
white"><?php echo jumlah_row('tb_adm
in','!','!')?></h3>
                  <h4 class="extra-small-
font mt-2 mb-0 text-
white">Admin</h4>
               </div>
               <div class="position-
relative"><i class="zmdi zmdi-globe-
lock fa-5x text-white"></i></div>
            </div>
         </div>
```

```
   </div>
</div>
<!--End Row-->
<div class="row">
   <div class="col-md-12">
      <div class="jumbotron gradient-
violet">
         <h1 class="display-
4" style="color : white;">Welcome</h1
>
         <p class="lead" style="color : w
hite;">This system could monitor the ac
cess of visitors to a room or place.</p>
         <hr class="my-4">
         <p class="lead">
            <a style="color : white;" class
="btn btn-outline-light btn-round waves-
effect waves-light m-1 btn-
lg" href="index.php?page=accept" role=
"button">Check Now</a>
         </p>
      </div>
   </div>
</div>
<!--End Row-->

<!--End Row-->

<!--End Dashboard Content-->
<!--start overlay-->
```

ARDIUNO UNO

```
#include <ESP8266WiFi.h>

#include <ESP8266HTTPClient.h>

#include <ArduinoJson.h>

#include <Keypad_I2C.h>

#include <Keypad.h>

#include <LiquidCrystal_I2C.h>

#include <Wire.h>

#include <SPI.h>

#include <MFRC522.h>

#define I2CADDR 0x20 //Alamat i2c
keypad

#define SS_PIN 15

#define RST_PIN 0


const byte ROWS = 4; // empat rows

const byte COLS = 4; // empat columns

const int switchBtn = 2;

int switchState = 0;

char keys[ROWS][COLS] = {

  {'1', '2', '3', 'A'},

  {'4', '5', '6', 'B'},

  {'7', '8', '9', 'C'},

  {'*', '0', '#', 'D'}

};

byte rowPins[ROWS] = {0, 1, 2, 3};

byte colPins[COLS] = {4, 5, 6, 7};

char input[5] = "";

int arr = 0;

int display_keypad = 4;

boolean switch_offline = false;


Keypad_I2C kpd = Keypad_I2C(
makeKeymap(keys), rowPins, colPins,
ROWS, COLS, I2CADDR);

LiquidCrystal_I2C lcd(0x27, 20, 4);
//0x27 = alamat i2c LCD

MFRC522 mfrc522(SS_PIN,
RST_PIN);

HTTPClient http;


//================== USER
CONFIG
======================

const char* ssid = "fh_f2e238"; // Nama
WiFi
```

```
const char* password = "danvers2021"; //Password WiFi

String url = "http://192.168.1.28"; //Masukan dengan nama domain atau IP Address server

String key = "612e6a61ea234"; //Request Token atau request key

char offline_pass [5] = {'0', '0', '0', '0', '0'}; //Password keypad saat mode Offline

String administrator_pass = "22222"; //Password untuk masuk ke mode admin

int delay_offline = 5; //Delay waktu buka pintu saat mode offline satuanya detik

int lcd_colum = 20; //for LCD 20x4

//================== END USER CONFIG ==================


boolean first_boot = true;

boolean full_mode = false;

boolean administrator = false;

String mcu_name;

String online_pwd;

int delay_door;

int TIMEOUT = 0;

int LCDcursor;

const int doorlock = 16;

//const char* ctrl_name = "OFF LINE";



void setup() {

  Serial.begin(9600);

  pinMode(doorlock, OUTPUT);

  pinMode(switchBtn, INPUT);

  digitalWrite(doorlock, LOW);

  Wire.begin();

  kpd.begin();

  lcd.begin();

  SPI.begin();

  mfrc522.PCD_Init();

  lcd.backlight();

  WiFi.begin(ssid, password);

  lcd.setCursor(3, 1);

  lcd.print("CONNECTING....");

  while (WiFi.status() != WL_CONNECTED) {

    delay(1000);

    TIMEOUT++;

    if (TIMEOUT == 10) {

      lcd.clear();

      lcd.setCursor(0, 0);

      lcd.print("CONNECTING IS FAIL!!");

      lcd.setCursor(0, 1);

      lcd.print("OFFLINE MODE ACCESS.");

      TIMEOUT = 0;

      break;

    }

  }

  getSettings();

  if (!full_mode) {

    lcd.clear();

    String notice = "OFFLINE MODE SET ON";

    lcd.setCursor(autoCursor(notice), 1);

    lcd.print(notice);
```

```
  } else {
    lcd.clear();
    lcd.setCursor(0, 0);
    lcd.print("CONNECTION
SUCCESS");
    lcd.setCursor(0, 1);
    lcd.print("IP:");
    lcd.print(WiFi.localIP());
    lcd.setCursor(0, 2);
    lcd.print("ONLINE CONFIG
LOADED");
  }
  delay(3000);
  lcd.clear();
  createCustomCharacters();
  printFrame();
}

void loop() {
  switchState = digitalRead(switchBtn);
  if(switchState == LOW){
    switchHIGH();
  }
  if (WiFi.status() ==
WL_CONNECTED)
  {
    if (full_mode) {
      online_mode();
    } else {
      offline_mode();
    }
  } else {
    offline_mode();
  }
}

void getSettings() {
  Serial.println("GET SETTINGS");
  http.begin(url +
"/doorproject/settings");
  http.addHeader("Content-Type",
"application/x-www-form-urlencoded");
  int httpCode = http.POST("token=" +
key);
  delay(500);
  if (httpCode > 0) {
    //masuk ke full mode
    String response = http.getString();
    char json[500];
    response.toCharArray(json, 500);
    StaticJsonDocument<200> doc;
    deserializeJson(doc, json);
    int api_response = doc["error"];
    Serial.println(response);// for debug
response ambil settings
    if (api_response != 200) {
      //response dari API tidak 200
      full_mode = false;
    } else {
      //response dari API 200
      String pwd = doc["data"]["keypad"];
      delay_door = doc["data"]["delay"];
      String ctrl_name =
doc["data"]["name"];
```

```
    mcu_name = ctrl_name;
    online_pwd = pwd;
    /*
      LCDcursor = (20 - mcu_name.length())/2;
    */

    full_mode = true;
   }

  } else {
   //masuk ke mode keypad only
   full_mode = false;
  }
  http.end();
}

int autoCursor(String text) {
  int cursor = (lcd_colum - text.length()) / 2;
  return cursor;
}
int RFID_reader() {
  if ( ! mfrc522.PICC_IsNewCardPresent())
  {
   return 0;
  }
  if ( ! mfrc522.PICC_ReadCardSerial())
  {
   return 0;
  }
  byte letter;
  String content;
  for (byte i = 0; i < mfrc522.uid.size; i++)
  {
   Serial.print(mfrc522.uid.uidByte[i] < 0x10 ? "0" : "");
   Serial.print(mfrc522.uid.uidByte[i], HEX);

content.concat(String(mfrc522.uid.uidByte[i] < 0x10 ? "0" : ""));

content.concat(String(mfrc522.uid.uidByte[i], HEX));
  }
  content.toUpperCase();
  lcd_clear();
  lcd.setCursor(autoCursor("ID " + content), 1);
  lcd.print("ID " + content);
  delay(500);
  auth(content);
  arr = 0;
}

void auth(String data) {
  HTTPClient http;
  http.begin(url + "/doorproject/dtprAPI");
  http.addHeader("Content-Type", "application/json");
  String content = "{\"data\":\"" + data + "\",\"key\":\"" + key + "\"}";
```

```
  delay(100);
  int response = http.POST(content);
  if (response == 200) {
    String payload = http.getString();
    char json[500];
    payload.toCharArray(json, 500);
    StaticJsonDocument<200> doc;
    deserializeJson(doc, json);
    String message = doc["message"];
    int access = doc["access"];
    lcd.setCursor(autoCursor(message),
2);
    lcd.print(message);
    delay(500);
    if (access == 0) {
      RFID_openDoor();
    }else{
      delay(1000);
    }
  } else {
    lcd_clear();
    String notice = "REQUEST
GAGAL";
    lcd.setCursor(autoCursor(notice), 1);
    lcd.print(notice);
    lcd.setCursor(autoCursor("ERROR "+
String(response)), 2);
    lcd.print("ERROR "+
String(response));
    delay(1500);
    lcd_clear();
    notice = "COBA LAGI KEMBALI";
    lcd.setCursor(autoCursor(notice),1);
    lcd.print(notice);
    delay(1000);
  }
  data = "";
  http.end();
  lcd_clear();
}
void RFID_openDoor() {
  digitalWrite(doorlock, HIGH);
  int delayClose = delay_door / 1000;
  lcd_clear();
  lcd.setCursor(3, 1);
  lcd.print("SELAMAT DATANG");
  lcd.setCursor(2, 2);
  lcd.print("TUTUP SETELAH");
  for (int i = delayClose; i > 0; i--) {
    lcd.setCursor(16, 2);
    (i < 10) ? lcd.print("0") : NULL;
    lcd.print(i);
    delay(1000);
  }
  digitalWrite(doorlock, LOW);
}

void keypad_openDoor() {
  digitalWrite(doorlock, HIGH);
  int delayClose;
  lcd_clear();
  lcd.setCursor(3, 1);
  lcd.print("AKSES DITERIMA");
  lcd.setCursor(2, 2);
```

```
  lcd.print("TUTUP SETELAH");
  if (full_mode) {
    delayClose = delay_door / 1000;
  } else {
    delayClose = delay_offline;
  }
  for (int i = delayClose; i > 0; i--) {
    lcd.setCursor(16, 2);
    (i < 10) ? lcd.print("0") : NULL;
    lcd.print(i);
    delay(1000);
  }
  digitalWrite(doorlock, LOW);
  lcd_clear();
}

void switchHIGH(){
  Serial.println("buka pintu");
  digitalWrite(doorlock, HIGH);
  int delayClose;
  lcd_clear();
  lcd.setCursor(4, 1);
  lcd.print("AKSES KELUAR");
  lcd.setCursor(2, 2);
  lcd.print("TUTUP SETELAH");
  if (full_mode) {
    delayClose = delay_door / 1000;
  } else {
    delayClose = delay_offline;
  }
  for (int i = delayClose; i > 0; i--) {
    lcd.setCursor(16, 2);
    (i < 10) ? lcd.print("0") : NULL;
    lcd.print(i);
    delay(1000);
  }
  digitalWrite(doorlock, LOW);
  lcd_clear();
}


byte verticalLine[8] = {
  B00100,
  B00100,
  B00100,
  B00100,
  B00100,
  B00100,
  B00100,
  B00100
};

byte char2[8] = {
  B00000,
  B00000,
  B00000,
  B11100,
  B00100,
  B00100,
  B00100,
  B00100
```

```
};

byte char1[8] = {
  0b00000,
  0b00000,
  0b00000,
  0b00111,
  0b00100,
  0b00100,
  0b00100,
  0b00100
};

byte char3[8] = {
  0b00100,
  0b00100,
  0b00100,
  0b00111,
  0b00000,
  0b00000,
  0b00000,
  0b00000
};

byte char4[8] = {
  0b00100,
  0b00100,
  0b00100,
  0b11100,
  0b00000,
  0b00000,
  0b00000,
  0b00000
};

byte squarePassword[8] = {
  B00000,
  B11111,
  B10001,
  B10001,
  B10001,
  B10001,
  B11111,
  B00000
};

byte invertPassword[8] = {
  B00000,
  B11111,
  B11111,
  B11111,
  B11111,
  B11111,
  B11111,
  B00000
};

void printFrame()
{
  lcd.setCursor(1, 0);
  lcd.print("------------------");
  lcd.setCursor(1, 3);
```

```
  lcd.print("------------------");
  lcd.setCursor(0, 1);
  lcd.write(byte(0));
  lcd.setCursor(0, 2);
  lcd.write(byte(0));
  lcd.setCursor(19, 1);
  lcd.write(byte(0));
  lcd.setCursor(19, 2);
  lcd.write(byte(0));
  lcd.setCursor(0, 0);
  lcd.write(byte(1));
  lcd.setCursor(19, 0);
  lcd.write(byte(2));
  lcd.setCursor(0, 3);
  lcd.write(byte(3));
  lcd.setCursor(19, 3);
  lcd.write(byte(4));
}

void createCustomCharacters()
{
  lcd.createChar(0, verticalLine);
  lcd.createChar(1, char1);
  lcd.createChar(2, char2);
  lcd.createChar(3, char3);
  lcd.createChar(4, char4);
}

void displaySquarePassword()
{
  switch (arr)
  {
   case 0 :
     lcd.createChar(5, squarePassword);
     lcd.setCursor(5, 1);
     lcd.write(byte(5));

     lcd.createChar(5, squarePassword);
     lcd.setCursor(7, 1);
     lcd.write(byte(5));

     lcd.createChar(5, squarePassword);
     lcd.setCursor(9, 1);
     lcd.write(byte(5));

     lcd.createChar(5, squarePassword);
     lcd.setCursor(11, 1);
     lcd.write(byte(5));

     lcd.createChar(5, squarePassword);
     lcd.setCursor(13, 1);
     lcd.write(byte(5));
     break;

   case 1 :
     lcd.createChar(6, invertPassword);
     lcd.setCursor(5, 1);
     lcd.write(byte(6));

     lcd.createChar(5, squarePassword);
     lcd.setCursor(7, 1);
     lcd.write(byte(5));
```

```
  lcd.createChar(5, squarePassword);
  lcd.setCursor(9, 1);
  lcd.write(byte(5));

  lcd.createChar(5, squarePassword);
  lcd.setCursor(11, 1);
  lcd.write(byte(5));

  lcd.createChar(5, squarePassword);
  lcd.setCursor(13, 1);
  lcd.write(byte(5));
  break;

case 2 :
  lcd.createChar(6, invertPassword);
  lcd.setCursor(5, 1);
  lcd.write(byte(6));

  lcd.createChar(6, invertPassword);
  lcd.setCursor(7, 1);
  lcd.write(byte(6));

  lcd.createChar(5, squarePassword);
  lcd.setCursor(9, 1);
  lcd.write(byte(5));

  lcd.createChar(5, squarePassword);
  lcd.setCursor(11, 1);
  lcd.write(byte(5));

  lcd.createChar(5, squarePassword);
  lcd.setCursor(13, 1);
  lcd.write(byte(5));
  break;

case 3 :
  lcd.createChar(6, invertPassword);
  lcd.setCursor(5, 1);
  lcd.write(byte(6));

  lcd.createChar(6, invertPassword);
  lcd.setCursor(7, 1);
  lcd.write(byte(6));

  lcd.createChar(6, invertPassword);
  lcd.setCursor(9, 1);
  lcd.write(byte(6));

  lcd.createChar(5, squarePassword);
  lcd.setCursor(11, 1);
  lcd.write(byte(5));

  lcd.createChar(5, squarePassword);
  lcd.setCursor(13, 1);
  lcd.write(byte(5));
  break;

case 4 :
  lcd.createChar(6, invertPassword);
  lcd.setCursor(5, 1);
  lcd.write(byte(6));
```

```
  lcd.createChar(6, invertPassword);
  lcd.setCursor(7, 1);
  lcd.write(byte(6));

  lcd.createChar(6, invertPassword);
  lcd.setCursor(9, 1);
  lcd.write(byte(6));

  lcd.createChar(6, invertPassword);
  lcd.setCursor(11, 1);
  lcd.write(byte(6));

  lcd.createChar(5, squarePassword);
  lcd.setCursor(13, 1);
  lcd.write(byte(5));
  break;

 case 5 :
  lcd.createChar(6, invertPassword);
  lcd.setCursor(5, 1);
  lcd.write(byte(6));

  lcd.createChar(6, invertPassword);
  lcd.setCursor(7, 1);
  lcd.write(byte(6));

  lcd.createChar(6, invertPassword);
  lcd.setCursor(9, 1);
  lcd.write(byte(6));

  lcd.createChar(6, invertPassword);
  lcd.setCursor(11, 1);
  lcd.write(byte(6));

  lcd.createChar(6, invertPassword);
  lcd.setCursor(13, 1);
  lcd.write(byte(6));
  break;
 }
}

void lcd_clear() {
 lcd.setCursor(1, 1);
 lcd.print("               ");//blank area
 lcd.setCursor(1, 2);
 lcd.print("               ");//blank area
}

void(*ctrl_reset) (void) = 0;

void offline_mode() {
 full_mode = false;
 if(!switch_offline){
  lcd_clear();
  printFrame();
  switch_offline = true;
 }
 char keypad_value = kpd.getKey();
 if (!administrator) {
  //boolean access = false;
```

```
lcd.setCursor(autoCursor("OFFLINE"), 0);
   lcd.print("OFFLINE");
   lcd.setCursor(autoCursor("ENTER KEY ONLY  "), 2);
   lcd.print("ENTER KEY ONLY");
  } else {

lcd.setCursor(autoCursor("OFFLINE"), 0);
   lcd.print("OFFLINE");
   lcd.setCursor(autoCursor("ENTER ADMIN KEY"), 2);
   lcd.print("ENTER ADMIN KEY");
  }


  if (keypad_value) {
   //Serial.println(key); //debug.
   input[arr] = keypad_value;
   if (input[0] == '*') {
    administrator = true;
    arr = 0;
    lcd_clear();
   } else {
    arr += 1;
    if (arr >= 5) {
     arr = 0;
     if (String(input) == offline_pass && administrator == false) {
      keypad_openDoor();
     }
     else if (String(input) == administrator_pass && administrator) {
      lcd.clear();

lcd.setCursor(autoCursor("RESTART CONTROLLER"), 1);
      lcd.print("RESTART CONTROLLER");
      administrator = false;
      ctrl_reset();
     }
     administrator = false;
     lcd_clear();
    }
   }
  }
  displaySquarePassword();
}


void online_mode() {
  if (RFID_reader() == 0) {


   if (!administrator) {
    //boolean access = false;

lcd.setCursor(autoCursor(mcu_name), 0);
    lcd.print(mcu_name);
    lcd.setCursor(1, 2);
    lcd.print("ENTER KEY OR SCAN.");
   } else {

lcd.setCursor(autoCursor(mcu_name), 0);
    lcd.print(mcu_name);
```

```
    lcd.setCursor(autoCursor("ENTER ADMIN KEY"), 2);
    lcd.print("ENTER ADMIN KEY");
  }
  char keypad_value = kpd.getKey();

  if (keypad_value) {
    Serial.println(key); //debug.
    input[arr] = keypad_value;
    if (input[0] == '*') {
      administrator = true;
      arr = 0;
      lcd_clear();
    } else {
      arr += 1;
      if (arr >= 5) {
        arr = 0;
        if (String(input) == online_pwd && administrator == false) {
          keypad_openDoor();
        }
        else if (String(input) == administrator_pass && administrator) {
          lcd.clear();

lcd.setCursor(autoCursor("RESTART CONTROLLER"), 1);
          lcd.print("RESTART CONTROLLER");
          administrator = false;
          ctrl_reset();
        }
        administrator = false;
        lcd_clear();
      }
    }
  }
  /*
    if (keypad_value) {
      //Serial.println(key); //debug.
      input[arr] = keypad_value;
      arr += 1;
      if (arr >= 5) {
        arr = 0;
        if (String(input) == online_pwd) {
          keypad_openDoor();
        } else {
          Serial.println("NOT MATCH");
        }
      }
    }
  */
}
displaySquarePassword();
}
```