

LAMPIRAN

NAMA : IMAM TAUFIQ ARIFIYANTO

NIM : 141220000022

PRODI : TEHNIK ELEKTRO

**FAKULTAS : SAINS DAN TEKNOLOGI UNIVERSITAS ISLAM
NAHDLATUL ULAMA JEPARA**

Lampiran 1

Coding program pembuatan halaman website

1. index.php

```
<!DOCTYPE html>
<html>
<head>
<?php include "header.php"; ?>
<title>Menu Utama</title>
</head>
<body>
<?php include "menu.php"; ?>
<!-- isi -->
<div class="container-fluid" style="padding-top: 10%; text-align: center">
<h1>
Selamat Datang <br>
SISTEM ABSENSI KARYAWAN <br>
BERBASIS KARTU RFID <br>
PT EDM
</h1>
</div>
<?php include "footer.php"; ?>
</body>
</html>
```

2. header.php

```
<meta charset="utf-8">
<meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">
<link rel="stylesheet" type="text/css" href="css/bootstrap.min.css">
<script type="text/javascript" src="jquery/jquery.min.js"></script>
<script type="text/javascript" src="js/bootstrap.min.js"></script>
```

3. menu.php

```
<nav class="navbar navbar-inverse">
<div class="container-fluid">
<div class="navbar-header">
<a href="#" class="navbar-brand">ABSENSI KARYAWAN
</a>
</div>
<ul class="nav navbar-nav">
<li><a href="index.php"> HOME </a> </li>
<li><a href="datakaryawan.php"> Data Karyawan </a> </li>
<li><a href="absensi.php"> rekapitulasi absensi </a> </li>
<li><a href="scan.php"> Scan Kartu </a> </li>
```

```

</ul>
</div>
</nav>

```

4. footer.php

```

<div class="footer" style="text-align: center">
Nama : imam taufiq arifiyanto <br>
<strong>UNISNU | JEPARA </strong>
</div>

```

5. datakaryawan.php

```

<!DOCTYPE html>
<html>
<head>
<?php include "header.php"; ?>
<title>Data Karyawan</title>
</head>
<body>
<?php include "menu.php"; ?>
<!--isi-->
<div class="container-fluid">
<h3>Data Karyawan</h3>
<table class="table table-bordered">
<thead>
<tr style="background-color: brown; color: white;">
<th style="width: 10px; text-align: center">No.</th>
<th style="width: 200px; text-align: center">No kartu</th>
<th style="width: 400px; text-align: center">Nama</th>
<th style="text-align: center">Alamat</th>
<th style="width: 100px; text-align: center">Aksi</th>
</tr>
</thead>
<tbody>
<?php
//koneksi ke database
include "koneksi.php";
//baca data karyawan
$sql = mysqli_query($koneksi, "select * from karyawan");
$no = 0;
while ($data = mysqli_fetch_array($sql)) {
$no++;
?>
<tr>
<td> <?php echo $no;?> </td>
<td> <?php echo $data['nokartu']; ?> </td>
<td> <?php echo $data['nama']; ?> </td>

```

```

<td> <?php echo $data['alamat']; ?> </td>
<td>
<a href="edit.php?id=<?php echo $data['id']; ?>">
edit</a> | <a href="hapus.php?id=<?php echo $data['id']; ?>"> hapus</a>
</td>
</tr>
<?php } ?>
</tbody>
</table>
<!-- tombol tambah data karyawan -->
<a href="tambah.php"> <button class="btn btn-primary">Tambah Data
Karyawan</button> </a>
</div>
<?php include "footer.php"; ?>
</body>
</html>

```

6. koneksi.php

```

<?php
    //urutan = server, userdb, passdb, namadb
    $konek = mysqli_connect("localhost", "root", "", "absenrfid");
?>

```

7. tambah.php

```

<!--proses penyimpanan-->
<?php
include "koneksi.php";
//jika tombol simpan di klik
if(isset($_POST['btnSimpan']))
{
//baca isi inputan form
$nokartu = $_POST['nokartu'];
$nama = $_POST['nama'];
$alamat = $_POST['alamat'];
//simpan ke tabel karyawan
$simpan = mysqli_query($konek, "insert into karyawan(nokartu, nama,
alamat)values('$nokartu', '$nama', '$alamat)");

//jika berhasil tersimpan, tampilkan pesan tersimpan
//kembali ke data karyawan
if($simpan)
{
echo "
<script>
alert('tersimpan');

```

```

location.replace('datakaryawan.php');
</script>
";
}
else
{
echo "
<script>
alert('Gagal tersimpan');
location.replace('datakaryawan.php');
</script>
";
}
}
//kosongkan tabel tmprfid
mysqli_query($koneksi, "delete from tmprfid");
?>
<!DOCTYPE html>
<html>
<head>
<?php include "header.php"; ?>
<title>Tambah Data Karyawan</title>
<!--pembacaan nomor kartu otomatis-->
<script type="text/javascript">
$(document).ready(function(){
setInterval(function(){
$("#norfid").load('nokartu.php')
}, 0); //pembacaan file nokartu.php tiap 1 detik
});
</script>
</head>
<body>
<?php include "menu.php"; ?>
<!--isi-->
<div class="container-fluid">
<h3>Tambah Data Karyawan</h3>
<!--isi input-->
<form method="POST">
<div id="norfid"></div>
<div class="form-group">
<label>Nama Karyawan</label>
<input type="text" name="nama" id="nama" placeholder="nama karyawan"
class="form-control" style="width: 400px">
</div>
<div class="form-group">
<label>Alamat</label>

```

```

<textarea class="form-control" name="alamat" id="alamat" placeholder="alamat"
style="width: 400px"></textarea>
</div>
<button class="btn btn-primary" name="btnSimpan"
id="btnSimpan">Simpan</button>
</form>
</div>
<?php include "footer.php"; ?>
</body>
</html>

```

8. edit.php (pada coding program **edit.php** ini di masukan dalam coding an tambah.php)

```

<!--proses penyimpanan-->
<?php
include "koneksi.php";
//baca ID data yang akan di edit
$id = $_GET['id'];
//baca data karyawan berdasarkan id
$cari = mysqli_query($konek, "select * from karyawan where id='$id'");
$hasil = mysqli_fetch_array($cari);
//jika tombol simpan di klik
if(isset($_POST['btnSimpan']))
{
//baca isi inputan form
$nokartu = $_POST['nokartu'];
$nama = $_POST['nama'];
$alamat = $_POST['alamat'];
//simpan ke tabel karyawan
$simpan = mysqli_query($konek, "update karyawan set nokartu='$nokartu',
nama='$nama', alamat='$alamat' where id='$id'");
//jika berhasil tersimpan, tampilkan pesan tersimpan
//kembali ke data karyawan
if($simpan)
{
echo "
<script>
alert('tersimpan');
location.replace('datakaryawan.php');
</script>
";
}
else
{
echo "
<script>

```

```

alert('Gagal tersimpan');
location.replace('datakaryawan.php');
</script>
";
}
}
?>
<!DOCTYPE html>
<html>
<head>
<?php include "header.php"; ?>
<title>Tambah Data Karyawan</title>
</head>
<body>
<?php include "menu.php"; ?>
<!--isi-->
<div class="container-fluid">
<h3>Tambah Data Karyawan</h3>
<!--isi input-->
<form method="POST">
<div class="form-grup">
<label>No.kartu</label>
<input type="text" name="nokartu" id="nokartu" placeholder="nomor kartu
RFID" class="form-control" style="width: 200px" value="<?php echo
$hasil['nokartu']; ?>">
<div class="form-group">
<label>Nama Karyawan</label>
<input type="text" name="nama" id="nama" placeholder="nama karyawan"
class="form-control" style="width: 400px" value="<?php echo $hasil['nama'];
?>">
</div>
<div class="form-group">
<label>Alamat</label>
<textarea class="form-control" name="alamat" id="alamat" placeholder="alamat"
style="width: 400px"><?php echo $hasil['alamat']; ?></textarea>
</div>
<button class="btn btn-primary" name="btnSimpan"
id="btnSimpan">Simpan</button>
</form>
</div>
<?php include "footer.php"; ?>
</body>
</html>

```

9. hapus.php

```

<?php
include "koneksi.php";
//baca id data yang akan di hapus
$id = $_GET['id'];
//hapus data
$hapus = mysqli_query($konek, "delete from karyawan where id='$id'");
//jika berhasil terhapus tampilkan pesan terhapus
//kemudian kembali ke data karyawan
if($hapus)
{
echo "
<script>
alert('terhapus');
location.replace('datakaryawan.php');
</script>
";
}
else
{
echo "
<script>
alert('gagal terhapus');
location.replace('datakaryawan.php');
</script>
";
}
}

```

10. nokartu.php

```

<?php
include "koneksi.php";
//baca isi tabel rfid
$sql = mysqli_query($konek, "select * from tmprfid");
$data = mysqli_fetch_array($sql);
//baca no kartu
$nokartu = $data['nokartu'];
?>
<div class="form-grup">
<label>No.kartu</label>
<input type="text" name="nokartu" id="nokartu" placeholder="tempelkan kartu
RFID" class="form-control" style="width: 200px" value="<?php echo $nokartu;
?>">
</div>

```


11. absensi.php

```

<!DOCTYPE html>
<html>
<head>
<?php include "header.php"; ?>
<title>Rekapitulasi Absensi</title>
</head>
<body>
<?php include "menu.php" ?>
<!--isi-->
<div class="container-fluid">
<h3>Rekap Absensi</h3>
<table class="table table-bordered">
<thead>
<tr style=" background-color: brown; color:white">
<th style="width: 10px; text-align: center">No.</th>
<th style="text-align: center">Nama</th>
<th style="text-align: center">Tanggal</th>
<th style="text-align: center">Jam Masuk</th>
<th style="text-align: center">Jam Pulang</th>
</tr>
</thead>
<tbody>
<?php
include "koneksi.php";
//baca tabel absensi dan relasikan dengan tabel karyawan berdasarkan nomor kartu
RFID untuk tanggal hari ini
//baca tanggal saat ini
date_default_timezone_set('Asia/jakarta');
$tanggal = date('Y-m-d');
//filter absensi berdasarkan tanggal saat ini
$sql = mysqli_query($koneksi, "select b.nama, a.tanggal, a.jam_masuk,
a.jam_pulang from absensi a,karyawan b where a.nokartu=b.nokartu and
a.tanggal='$tanggal'");
$no = 0;
while($data = mysqli_fetch_array($sql))
{
$no++;
?>
<tr>
<td> <?php echo $no; ?> </td>
<td> <?php echo $data['nama']; ?> </td>
<td> <?php echo $data['tanggal']; ?> </td>
<td> <?php echo $data['jam_masuk']; ?> </td>
<td> <?php echo $data['jam_pulang']; ?> </td>
</tr>

```

```

<?php } ?>
</tbody>
</table>
</div>
<?php include "footer.php"; ?>
</body>
</html>

```

12. scan.php

```

<!DOCTYPE html>
<html>
<head>
<?php include "header.php"; ?>
<title>Scan Kartu</title>
<!--scanning membaca kartu RFID -->
<script type="text/javascript">
$(document).ready(function() {
setInterval(function(){
$("#cekkartu").load('bacakartu.php')
}, 2000);
});
</script>
</head>
<body>
<?php include "menu.php"; ?>
<!--isi-->
<div class="container-fluid" style="padding-top: 10%">
<div id="cekkartu"></div>
</div>
<br>
<?php include "footer.php"; ?>
</body>
</html>

```

13. bacakartu.php

```

<?php
include "koneksi.php";
//baca tabel status untuk mode absensi
$sql = mysqli_query($koneksi, "select * from status");
$data = mysqli_fetch_array($sql);
$mode_absen = $data['mode'];
//uji mode absen
$mode = "";
if ($mode_absen==1)
$mode = "masuk";
else if($mode_absen==2)

```

```

$mode = "pulang";
//baca tabel tmprfid
$baca_kartu = mysqli_query($koneksi, "select * from tmprfid");
$data_kartu = mysqli_fetch_array($baca_kartu);
$nokartu = $data_kartu['nokartu'];
?>
<div class="container-fluid" style="text-align: center;">
<?php if($nokartu=="") { ?>
<h3>Absen : <?php echo $mode; ?> </h3>
<h3>Tempelkan Kartu RFID</h3>
 <br>

<?php } else {
//cek nomor kartu RFID tersebut apakah terdaftar di tabel karyawan
$cari_karyawan = mysqli_query($koneksi, "select * from karyawan where
nokartu='$nokartu'");
$jumlah_data = mysqli_num_rows($cari_karyawan);
if($jumlah_data==0)
echo "<h1>maaf! kartu tidak di kenali</h1>";
else
{
//ambil nama karyawan
$data_karyawan = mysqli_fetch_array($cari_karyawan);
$nama = $data_karyawan['nama'];
//tanggal dan jam hari ini
date_default_timezone_set('Asia/Jakarta') ;
$tanggal = date('Y-m-d');
$jam = date('H:i:s');
//cek di tabel absensi , apakah nomor kartu tersebut sudah ada sesuai tanggal hari
ini. Apabila belum ada, maka di anggap absen masuk, tapi kalau sudah ada, maka
update data sesuai mode absensi
$cari_absen = mysqli_query($koneksi, "select * from absensi where
nokartu='$nokartu' and tanggal='$tanggal'");
//hitung jumlah datanya
$jumlah_absen = mysqli_num_rows($cari_absen);
if($jumlah_absen == 0)
{
echo "<h1>Selamat Datang <br> $nama</h1>";
mysqli_query($koneksi, " insert into absensi(nokartu,
tanggal, jam_masuk)values('$nokartu', '$tanggal', '$jam)");
}
}
else
{
//update sesuai pilihan mode absen
if ($mode_absen == 2)
{

```

```

echo "<h1>Selamat Pulang <br> $nama</h1>";
mysqli_query($konek, "update absensi set jam_pulang='$jam' where
nokartu='$nokartu' and tanggal='$tanggal'");
}
}
}
//kosongkan tabel rfid
mysqli_query($konek, "delete from tmprfid");
}?>
</div>

```

14. ubahmode.php

```

<?php
include "koneksi.php";
//baca mode absensi terakhir
$mode = mysqli_query($konek, "select * from status");
$data_mode = mysqli_fetch_array($mode);
$mode_absen = $data_mode['mode'];
//status terakhir kemudian ditambah 1
$mode_absen = $mode_absen + 1;
if($mode_absen > 2)
$mode_absen = 1 ;
//simpan mode absen di tabel status dengan cara update
$simpan = mysqli_query($konek, "update status set mode='$mode_absen'");
if($simpan)
echo "Berhasil";
else
echo "Gagal";
?>

```

15. kirimkartu.php

```

<?php
include "koneksi.php";
//baca nomor kartu dari NodeMCU
$nokartu = $_GET['nokartu'];
//kosongkan tabel tmprfid
mysqli_query($konek, "delete from tmprfid");
//simpan nomor kartu yang baru ke tabel tmprfid
$simpan = mysqli_query($konek, "insert into tmprfid(nokartu)values('$nokartu')");
if($simpan)
echo "Berhasil";
else
echo "Gagal";
?>

```

Lampiran 2

Coding program alat dengan Arduino IDE

```
#include <SPI.h>
#include <MFRC522.h>

#include <ESP8266HTTPClient.h>
#include <ESP8266WiFi.h>

//Network SSID
const char* ssid = "imam";
const char* password = "";

//pengenal host (server) = IP Address komputer server
const char* host = "192.168.43.18";

#define LED_PIN 15 //D8
#define BTN_PIN 5 //D1

//sediakan variabel untuk RFID
#define SDA_PIN 2 //D4
#define RST_PIN 0 //D3

MFRC522 mfrc522(SDA_PIN, RST_PIN);

void setup() {
  Serial.begin(9600);

  //setting koneksi wifi
  WiFi.hostname("NodeMCU");
  WiFi.begin(ssid, password);

  //cek koneksi wifi
  while(WiFi.status() != WL_CONNECTED)
  {
    //progress sedang mencari WiFi
    delay(500);
    Serial.print(".");
  }

  Serial.println("Wifi Connected");
  Serial.println("IP Address : ");
  Serial.println(WiFi.localIP());

  pinMode(LED_PIN, OUTPUT);
  pinMode(BTN_PIN, OUTPUT);
}
```

```

    SPI.begin();
    mfrc522.PCD_Init();
    Serial.println("Dekatkan Kartu RFID Anda ke Reader");
    Serial.println();
}

void loop() {
    //baca status pin button kemudian uji
    if(digitalRead(BTN_PIN)==1) //ditekan
    {
        Serial.println("OK");
        //nyalakan lampu LED
        digitalWrite(LED_PIN, HIGH);
        while(digitalRead(BTN_PIN)==1) ; //menahan
proses sampai tombol dilepas
        //ubah mode absensi di aplikasi web
        String getData, Link ;
        HTTPClient http ;
        //Get Data
        Link =
"http://192.168.43.18/absensi/ubahmode.php";
        http.begin(Link);

        int httpCode = http.GET();
        String payload = http.getString();

        Serial.println(payload);
        http.end();
    }

    //matikan lampu LED
    digitalWrite(LED_PIN, LOW);

    if(! mfrc522.PICC_IsNewCardPresent())
        return ;

    if(! mfrc522.PICC_ReadCardSerial())
        return ;

    String IDTAG = "";
    for(byte i=0; i<mfrc522.uid.size; i++)
    {
        IDTAG += mfrc522.uid.uidByte[i];
    }

    //nyalakan lampu LED
    digitalWrite(LED_PIN, HIGH);

```

```
//kirim nomor kartu RFID untuk disimpan ke tabel
tmprfid
WiFiClient client;
const int httpPort = 80;
if(!client.connect(host, httpPort))
{
    Serial.println("Connection Failed");
    return;
}

String Link;
HTTPClient http;
Link =
"http://192.168.43.18/absensi/kirimkartu.php?nokartu="
+ IDTAG;
http.begin(Link);

int httpCode = http.GET();
String payload = http.getString();
Serial.println(payload);
http.end();

delay(200);
}
```