

LAMPIRAN

Lampiran 1 Surat Kesediaan Membimbing

SURAT KESEDIAN MEMBIMBING TA

Yang bertanda tangan di bawah ini :

Nama : Rais, S.Pd., M.Kom.

NIDN : 0614108501

NIPY : 07.011.083

Jabatan Struktural : -

Jabatan Fungsional: Lektor

Dengan ini menyatakan bersedia untuk menjadi pembimbing I pada Tugas Akhir mahasiswa berikut :

Nama : Muhammad Hisyam Muzakki

NIM : 21041065

Program Studi : Diploma III Teknik Komputer

Judul TA : RANCANG BANGUN ATM BERAS MENGGUNAKAN
LOAD CELL NODEMCU UNTUK MASYARAKAT KURANG
MAMPU

Demikian pernyataan ini dibuat agar dapat dilaksanakan sebagaimana mestinya.

Tegal, Juni 2024

Mengetahui

Kepala Prodi DIII Teknik Komputer,

Dosen Pembimbing I,



Ida Afriliana, S.T., M.Kom.
NIPY. 12.013.168

Rais, S.Pd., M.Kom.
NIPY. 07.011.083

SURAT KESEDIAAN MEMBIMBING TA

Yang bertanda tangan di bawah ini :

Nama : Eko Budihartono, S.T., M.Kom.

NIDN : 0605037304

NIPY : 12.013.170

Jabatan Struktural : -

Jabatan Fungsional: Lektor

Dengan ini menyatakan bersedia untuk menjadi pembimbing II pada Tugas Akhir mahasiswa berikut :

Nama : Muhammad Hisyam Muzakki

NIM : 21041065

Program Studi : Diploma III Teknik Komputer

Judul TA : RANCANG BANGUN ATM BERAS MENGGUNAKAN
LOAD CELL NODEMCU UNTUK MASYARAKAT KURANG
MAMPU

Demikian pernyataan ini dibuat agar dapat dilaksanakan sebagaimana mestinya.

Tegal, Juni 2024

Mengetahui

Kepala Prodi DIII Teknik Komputer,

Dosen Pembimbing II,



Ida Afriliana, S.T., M.Kom.
NIPY. 12.013.168



Eko Budihartono, S.T., M.Kom.
NIPY. 12.013.170

Lampiran 2 Dokumentasi Project ATM Beras



B-1



B-2

The screenshot shows the Admin Dashboard with the following statistics:

- Total User: 4
- Total Transaksi: 75
- Distribusi Beras: 225 Kg
- User Active: 1
- User Blocked: 3
- Stok Beras: 81 Kg

A user profile card for 'admin' is displayed on the right, showing details like Name, Username, Password, Level, and Registration Date.

The screenshot shows the 'Data Beras' page with a table of rice stock entries:

No	Berat Beras	Satuan	Waktu	Keterangan	Action
1	80	Kg	13-Jun-2024 20:50:03		<button>Delete</button> <button>Edit</button>
2	70	Kg	13-Jun-2024 19:45:47		<button>Delete</button> <button>Edit</button>
3	10	Kg	02-Jun-2024 20:49:29		<button>Delete</button> <button>Edit</button>
4	10	Kg	16-May-2024 18:59:45		<button>Delete</button> <button>Edit</button>
5	2	Kg	11-May-2024 12:19:27		<button>Delete</button> <button>Edit</button>
6	3	Kg	11-May-2024 11:53:54		<button>Delete</button> <button>Edit</button>
7	2	Kg	10-May-2024 21:53:03		<button>Delete</button> <button>Edit</button>
8	1	Kg	10-May-2024 21:52:54		<button>Delete</button> <button>Edit</button>
9	10	Kg	10-May-2024 21:23:15		<button>Delete</button> <button>Edit</button>
10	2	Kg	10-May-2024 21:23:02		<button>Delete</button> <button>Edit</button>

Lampiran 3 Source Code Arduino ATM Beras

```
#include <ESP8266WiFi.h>

#include <ESP8266HTTPClient.h>

#include <MFRC522.h>

#include <SPI.h>

#include <Servo.h>

#include <HX711.h>

#define DOUT_PIN D3

#define CLK_PIN D4

#define SERVO_PIN D8

#define SCALE_FACTOR 0.82

#define SS_PIN D2

#define RST_PIN D1

MFRC522 mfrc522(SS_PIN, RST_PIN);

HX711 scale;

Servo servoMotor;

const char* ssid = "TugasAkhir";

const char* password = "12345678";

const char* serverUrl = "http://192.168.43.95/atmberas/index.php/cek_rfid?id=";

WiFiClient client;

void setup() {

    Serial.begin(115200);
```

```

SPI.begin();

mfrc522.PCD_Init();

servoMotor.attach(SERVO_PIN);

servoMotor.write(0); // Pastikan servo tertutup pada awalnya

scale.begin(DOUT_PIN, CLK_PIN);

scale.set_scale(SCALE_FACTOR);

scale.tare();

WiFi.begin(ssid, password);

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

delay(1000);

Serial.println("Connecting to WiFi...");

}

Serial.println("WiFi connected");

}

void loop() {

if (!mfrc522.PICC_IsNewCardPresent() || !mfrc522.PICC_ReadCardSerial()) {

delay(50);

return;

}

Serial.println("Kartu terdeteksi!");

```

```

String rfidData = "";
for (byte i = 0; i < mfrc522.uid.size; i++) {
    rfidData += String(mfrc522.uid.uidByte[i], HEX);
}
Serial.print("ID RFID: ");
Serial.println(rfidData);
kirimDataKeServer(rfidData);
}

void kirimDataKeServer(String rfidData) {
    String url = serverUrl + rfidData;
    HTTPClient http;
    http.setTimeout(10000); // Timeout 10 detik
    http.begin(url);
    int httpCode = http.GET();

    if (httpCode > 0) {
        Serial.printf("[HTTP] GET request sent, status code: %d\n", httpCode);
        if (httpCode == HTTP_CODE_OK) {
            String payload = http.getString();
            Serial.println("Server respons: " + payload);
        }
    }
}

```

```

if (payload == "terdaftar") {

    Serial.println("RFID terdaftar, menuju ke fungsi checkberat...");

    checkberat(); // Panggil fungsi checkberat() jika RFID terdaftar

} else {

    Serial.println("RFID tidak terdaftar.");

}

} else {

Serial.printf("[HTTP] GET request failed, error: %s\n",

http.errorToString(httpCode).c_str());

}

http.end();

}

}

```

```

void checkberat() {

while (true) {

float weight = scale.get_units();

if (weight >= 3.0) {

servoMotor.write(0); // Tutup servo

break; // Keluar dari perulangan saat berat mencapai 1 kg
}

```

```
else if (weight <= 0.9) {  
    servoMotor.write(90); // Nyalakan Servo  
}  
  
Serial.print("Berat: ");  
Serial.print(weight);  
Serial.println(" kg");  
}  
}
```

Lampiran 4 Source Code Web ATM Beras

Controllers – Admin – Dashboard.php

```
<?php  
defined('BASEPATH') OR exit('No direct script access allowed');  
  
class Dashboard extends CI_Controller {  
  
    public function __construct()  
    {  
        parent::__construct();  
        if(!$this->session->userdata('id')){  
            redirect('index.php/welcome');  
        } else {  
            if($this->session->userdata('level') != 'Admin'){  
                redirect('index.php/user/dashboard');  
            }  
        }  
    }  
  
    public function index()  
    {  
        $data['title'] = 'Dashboard';  
        $data['jumlahUser'] = $this->m_model->get('tb_datauser')->num_rows();  
    }  
}
```

```

        $data['jumlahTransaksi'] = $this->m_model->get('tb_riwayatberas')-
>num_rows();

        $data['jumlahBeras'] = $this->m_model->getTotalBeras('tb_riwayatberas');

        $data['jumlahActive'] = $this->m_model->getUserActive('tb_datauser')-
>num_rows();

        $data['jumlahBlocked'] = $this->m_model->getUserBlocked('tb_datauser')-
>num_rows();

        $data['jumlahBank'] = $this->m_model->getBeratTersisa('tb_databeras');

        $this->load->view('admin/templates/header', $data);

        $this->load->view('admin/templates/sidebar');

        $this->load->view('admin/dashboard', $data);

        $this->load->view('admin/templates/footer');

    }

}

```

Controllers – Models – M_model.php

```

<?php

defined('BASEPATH') or exit('No direct script access allowed');

```

```
class M_model extends CI_Model
```

```
{
```

```
public function get_where($where, $table)
{

```

```
        return $this->db->get_where($table, $where);

    }

public function insert($data, $table)
{
    $this->db->insert($table, $data);

}

public function get($table)
{
    $this->db->ORDER_BY('id', 'DESC');

    return $this->db->get($table);

}

public function delete($where, $table)
{
    $this->db->delete($table, $where);

}

public function update($where, $data, $table)
{
    $this->db->where($where);

    $this->db->update($table, $data);
```

```

}

public function getNameById($rfid_id)

{
    // Query database untuk mencari data nama berdasarkan ID RFID
    $this->db->select('nama');

    $this->db->from('tb_datauser');

    $this->db->where('rfid', $rfid_id);

    $query = $this->db->get();

    // Periksa apakah data ditemukan
    if ($query->num_rows() > 0) {
        $row = $query->row();
        return $row->nama;
    } else {
        return 'Data tidak ditemukan';
    }
}

public function getUserStatusByRFID($rfid_id)

{
    // Query database untuk mendapatkan status pengguna berdasarkan nomor
    kartu RFID
}

```

```

    $this->db->select('status');

    $this->db->from('tb_datauser');

    $this->db->where('rfid', $rfid_id);

    $query = $this->db->get();

    // Periksa apakah data ditemukan

    if ($query->num_rows() > 0) {

        $row = $query->row();

        return $row->status;

    } else {

        return 'tidak_terdaftar';

    }

}

public function blockUserByRFID($rfid_id)

{

    // Update status pengguna menjadi "terblok" berdasarkan nomor kartu RFID

    $data = array(

        'status' => 'Blocked'

    );

    $this->db->where('rfid', $rfid_id);

    $this->db->update('tb_datauser', $data);

}

```

```

public function activateUserById($id)
{
    // Update status pengguna menjadi 'Active' berdasarkan ID pengguna
    $data = array(
        'status' => 'Active'
    );
    $this->db->where('id', $id);
    return $this->db->update('tb_datauser', $data);
}

public function blockUserById($id)
{
    // Update status pengguna menjadi 'Blocked' berdasarkan ID pengguna
    $data = array(
        'status' => 'Blocked'
    );
    $this->db->where('id', $id);
    return $this->db->update('tb_datauser', $data);
}

public function getUserActive()
{

```

```

    $this->db->where('status', 'Active');

    $query = $this->db->get('tb_datauser');

    // Mengembalikan hasil query dalam bentuk objek CI_DB_result
    return $query;
}

public function getUserBlocked()
{
    $this->db->where('status', 'Blocked');

    $query = $this->db->get('tb_datauser');

    // Mengembalikan hasil query dalam bentuk objek CI_DB_result
    return $query;
}

public function getTotalBeras()
{
    $query = $this->db->query('SELECT SUM(jumlah) AS total_berat FROM
tb_riwayatberas');

    // Periksa apakah query berhasil dieksekusi
    if ($query) {

```

```

// Periksa apakah data ditemukan

if ($query->num_rows() > 0) {

    return $query->row()->total_berat; // Mengembalikan total berat dari

hasil query

} else {

    return 0; // Mengembalikan 0 jika tidak ada data yang ditemukan

}

} else {

    return 0; // Mengembalikan 0 jika query tidak berhasil dieksekusi

}

}

public function getBeratTersisa()

{

// Menghitung total berat dari tabel tb_databeras

$query_total_berat = $this->db->query('SELECT SUM(berat) AS total_berat

FROM tb_databeras');

$total_berat = $query_total_berat->row()->total_berat;

// Menghitung total berat yang keluar dari tabel tb_berat_keluar

$query_berat_keluar = $this->db->query('SELECT SUM(jumlah) AS

total_berat_keluar FROM tb_rriwayatberas');

$total_berat_keluar = $query_berat_keluar->row()->total_berat_keluar;

```

```

// Menghitung berat yang tersisa

$berat_tersisa = $total_berat - $total_berat_keluar;

return $berat_tersisa;

}

#####
M #####
public function get_latest_rfid_code()
{
    $this->db->select('rfid_id');

    $this->db->from('tabel_rfid');

    $this->db->order_by('id', 'DESC');

    $this->db->limit(1);

    $query = $this->db->get();

    if ($query->num_rows() > 0) {

        return $query->row()->rfid_id;

    } else {

        return null;

    }
}

```

Controllers – Views – dashboard.php

<!-- Content Wrapper. Contains page content -->

```
<div class="content-wrapper">

    <!-- Content Header (Page header) -->

    <section class="content-header">

        <h1>
            Dashboard
            <small>Dashboard</small>
        </h1>

        <ol class="breadcrumb">
            <li><a href="#"><i class="fa fa-dashboard"></i> Home</a></li>
            <li class="active">Dashboard</li>
        </ol>
    </section>

    <!-- Main content -->

    <section class="content">

        <div class="row">
            <div class="col-md-8">
                <div class="row">
                    <div class="col-lg-4 col-xs-6">
                        <div class="small-box bg-green">
                            <div class="inner">
                                <h3><?php echo $jumlahUser; ?></h3>
                            </div>
                        </div>
                    </div>
                </div>
            </div>
        </div>
    </section>

```

```
<p>Total User</p>
</div>

<div class="icon">
    <i class="fa fa-group"></i>
</div>

<a href="php echo base_url('index.php/admin/dataUser') ?&gt;"&gt;
    class="small-box-footer"&gt;More info &lt;i class="fa fa-arrow-circle-right"&gt;&lt;/i&gt;&lt;/a&gt;
&lt;/div&gt;

&lt;/div&gt;

&lt;div class="col-lg-4 col-xs-6"&gt;
    &lt;div class="small-box bg-yellow"&gt;
        &lt;div class="inner"&gt;
            &lt;h3&gt;&lt;?php echo $jumlahTransaksi; ?&gt;&lt;/h3&gt;

            &lt;p&gt;Total Transaksi&lt;/p&gt;
            &lt;/div&gt;
            &lt;div class="icon"&gt;
                &lt;i class="fa fa-book"&gt;&lt;/i&gt;
            &lt;/div&gt;
            &lt;a href="<?php echo base_url('index.php/admin/riwayatBeras') ?&gt;"&gt;
                class="small-box-footer"&gt;More info &lt;i class="fa fa-arrow-circle-right"&gt;&lt;/i&gt;&lt;/a&gt;
            &lt;/div&gt;
        &lt;/div&gt;
    &lt;/div&gt;</pre
```

```
<div class="col-lg-4 col-xs-6">
    <div class="small-box bg-blue">
        <div class="inner">
            <h3><?php echo $jumlahBeras; ?> Kg</h3>

            <p>Distribusi Beras</p>
        </div>
        <div class="icon">
            <i class="fa fa-book"></i>
        </div>
        <a href="<?php echo base_url('index.php/admin/riwayatBeras') ?>">
            class="small-box-footer">More info <i class="fa fa-arrow-circle-right"></i></a>
        </div>
    </div>

    <div class="col-lg-4 col-xs-6">
        <div class="small-box bg-green">
            <div class="inner">
                <h3><?php echo $jumlahActive; ?></h3>

                <p>User Active</p>
            </div>
            <div class="icon">
```

```
<i class="fa fa-group"></i>
</div>

<a href="=base_url('index.php/admin/dataUser') ?&gt;"&gt;
class="small-box-footer"&gt;More info &lt;i class="fa fa-arrow-circle-right"&gt;&lt;/i&gt;&lt;/a&gt;
&lt;/div&gt;
&lt;/div&gt;

&lt;div class="col-lg-4 col-xs-6"&gt;
&lt;div class="small-box bg-red"&gt;
&lt;div class="inner"&gt;
&lt;h3&gt;<?=jumlahBlocked; ?&gt;&lt;/h3&gt;

&lt;p&gt;User Blocked&lt;/p&gt;
&lt;/div&gt;

&lt;div class="icon"&gt;
&lt;i class="fa fa-group"&gt;&lt;/i&gt;
&lt;/div&gt;

&lt;a href="<?=base_url('index.php/admin/dataUser') ?&gt;"&gt;
class="small-box-footer"&gt;More info &lt;i class="fa fa-arrow-circle-right"&gt;&lt;/i&gt;&lt;/a&gt;
&lt;/div&gt;
&lt;/div&gt;

&lt;div class="col-lg-4 col-xs-6"&gt;</pre
```

```
<div class="small-box bg-blue">
  <div class="inner">
    <h3><?php echo $jumlahBank; ?> Kg</h3>

    <p>Stok Beras</p>
  </div>

  <div class="icon">
    <i class="fa fa-book"></i>
  </div>

  <a href=<?php echo base_url('index.php/admin/dataBeras') ?>">
    class="small-box-footer">More info <i class="fa fa-arrow-circle-right"></i></a>
  </div>

  </div>
</div>

</div>

<div class="col-md-4">
  <div class="box box-widget widget-user-2">
    <!-- Add the bg color to the header using any of the bg-* classes -->
    <div class="widget-user-header bg-red">
      <div class="widget-user-image">
```

```



</div>

</div>

</div>

</section>

```
<!-- /.content -->
```

</div>

```
<!-- /.content-wrapper -->
```