

TUGAS 2

PEMROGRAMAN BERBASIS WEB LANJUTAN



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PROGRAM STUDI SISTEM INFORMASI
FAKULTAS SAINS DAN TEKNOLOGI
UIN SUMATERA UTARA MEDAN
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Assalamu'alaikum wr. Wb

1. Desain database menggunakan MySql menggunakan text editor :

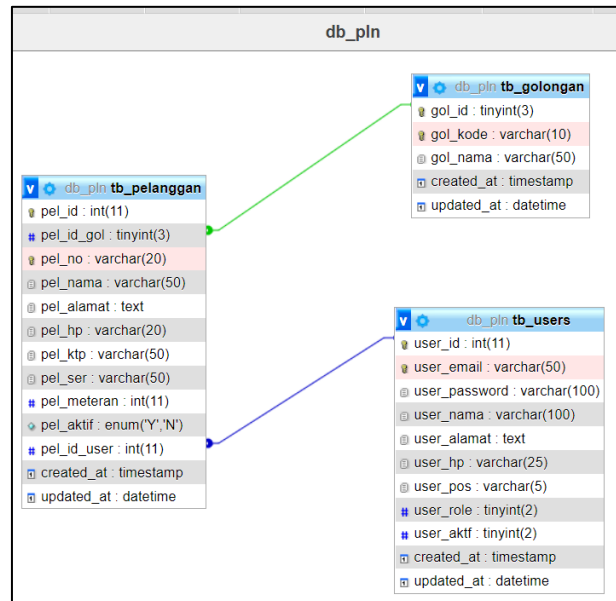
```
CREATE DATABASE `db_pln` ;
CREATE TABLE `tb_golongan` (
  `gol_id` tinyint(3) NOT NULL AUTO_INCREMENT,
  `gol_kode` varchar(10) NOT NULL,
  `gol_nama` varchar(50) NOT NULL,
  `created_at` timestamp NOT NULL DEFAULT current_timestamp() ON UPDATE
current_timestamp(),
  `updated_at` datetime NOT NULL,
  PRIMARY KEY (`gol_id`),
  UNIQUE KEY `gol_kode_2` (`gol_kode`),
  KEY `gol_kode` (`gol_kode`)
) ENGINE=InnoDB AUTO_INCREMENT=47 DEFAULT CHARSET=utf8mb4;
CREATE TABLE `tb_users` (
  `user_id` int(11) NOT NULL AUTO_INCREMENT,
  `user_email` varchar(50) NOT NULL,
  `user_password` varchar(100) NOT NULL,
  `user_nama` varchar(100) NOT NULL,
  `user_alamat` text NOT NULL,
  `user_hp` varchar(25) NOT NULL,
  `user_pos` varchar(5) NOT NULL,
  `user_role` tinyint(2) NOT NULL,
  `user_aktif` tinyint(2) NOT NULL,
  `created_at` timestamp NOT NULL DEFAULT current_timestamp() ON UPDATE
current_timestamp(),
  `updated_at` datetime NOT NULL,
  PRIMARY KEY (`user_id`),
  UNIQUE KEY `user_email` (`user_email`),
  KEY `user_email_2` (`user_email`)
) ENGINE=InnoDB AUTO_INCREMENT=13 DEFAULT CHARSET=utf8mb4;
CREATE TABLE `tb_pelanggan` (
  `pel_id` int(11) NOT NULL AUTO_INCREMENT,
  `pel_id_gol` tinyint(3) NOT NULL,
  `pel_no` varchar(20) NOT NULL,
  `pel_nama` varchar(50) NOT NULL,
  `pel_alamat` text NOT NULL,
  `pel_hp` varchar(20) NOT NULL,
  `pel_ktp` varchar(50) NOT NULL,
  `pel_ser` varchar(50) NOT NULL,
  `pel_meteran` int(11) NOT NULL,
  `pel_aktif` enum('Y','N') NOT NULL,
  `pel_id_user` int(11) NOT NULL,
  `created_at` timestamp NOT NULL DEFAULT current_timestamp() ON UPDATE
current_timestamp(),
  `updated_at` datetime NOT NULL,
  PRIMARY KEY (`pel_id`),
  UNIQUE KEY `pel_no_2` (`pel_no`),
```

```

KEY `pel_no` (`pel_no`),
KEY `pel_id_gol` (`pel_id_gol`),
KEY `pel_id_user` (`pel_id_user`),
CONSTRAINT `tb_pelanggan_ibfk_1` FOREIGN KEY (`pel_id_gol`) REFERENCES
`tb_golongan` (`gol_id`),
CONSTRAINT `tb_pelanggan_ibfk_2` FOREIGN KEY (`pel_id_user`) REFERENCES
`tb_users` (`user_id`)
) ENGINE=InnoDB AUTO_INCREMENT=19 DEFAULT CHARSET=utf8mb4;

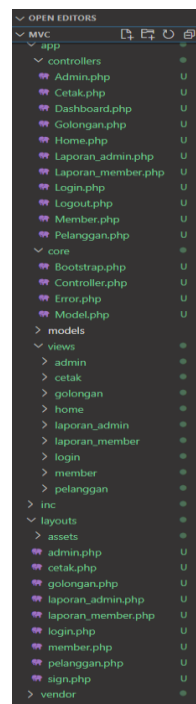
```

Hasil eksekusi baris perintah diatas :



2. Desain sistem sederhana berdasarkan database diatas menggunakan bahasa pemrograman PHP versi 8 dengan konsep MVC dilengkapi Layouts CSS Framework Bootstrap.

a. Struktur File :



Ini merupakan struktur program yang saya download di github bapak, kemudian saya tambahkan beberapa folder dan file pendukung sesuai tugas yang diberikan.

b. Halaman Daftar / Registrasi

```

1  <?php
2  use PDO;
3  class Model {
4  {
5      protected $pdo;
6      public function __construct()
7      {
8          $this->pdo = new PDO('mysql:host=localhost;dbname=db_pln', 'root', '');
9          $this->pdo->setAttribute(PDO::ATTR_ERRMODE, PDO::ERRMODE_EXCEPTION);
10         }
11     }
12     public function register($user_email, $user_password, $user_name, $user_hp, $user_pos) {
13         $sql = "INSERT INTO users (user_email, user_password, user_name, user_hp, user_pos)
14             VALUES (:email, :password, :name, :hp, :pos)";
15         $stmt = $this->pdo->prepare($sql);
16         $stmt->execute();
17     }
18     public function login($user_email, $user_password) {
19         $sql = "SELECT * FROM users WHERE user_email = :email AND user_password = :password";
20         $stmt = $this->pdo->prepare($sql);
21         $stmt->execute();
22         $result = $stmt->fetch(PDO::FETCH_ASSOC);
23         if ($result) {
24             return $result;
25         } else {
26             return false;
27         }
28     }
29     public function check_email($email) {
30         $sql = "SELECT * FROM users WHERE user_email = :email";
31         $stmt = $this->pdo->prepare($sql);
32         $stmt->execute();
33         $result = $stmt->fetch(PDO::FETCH_ASSOC);
34         if ($result) {
35             return true;
36         } else {
37             return false;
38         }
39     }
40     public function check_hp($hp) {
41         $sql = "SELECT * FROM users WHERE user_hp = :hp";
42         $stmt = $this->pdo->prepare($sql);
43         $stmt->execute();
44         $result = $stmt->fetch(PDO::FETCH_ASSOC);
45         if ($result) {
46             return true;
47         } else {
48             return false;
49         }
50     }
51     public function check_pos($pos) {
52         $sql = "SELECT * FROM users WHERE user_pos = :pos";
53         $stmt = $this->pdo->prepare($sql);
54         $stmt->execute();
55         $result = $stmt->fetch(PDO::FETCH_ASSOC);
56         if ($result) {
57             return true;
58         } else {
59             return false;
60         }
61     }
62 }
63 class RegisterController {
64     public function __construct()
65     {
66         $this->model = new Model();
67     }
68     public function register() {
69         $user_email = $_POST['user_email'];
70         $user_password = $_POST['user_password'];
71         $user_name = $_POST['user_name'];
72         $user_hp = $_POST['user_hp'];
73         $user_pos = $_POST['user_pos'];
74         $this->model->register($user_email, $user_password, $user_name, $user_hp, $user_pos);
75     }
76     public function login() {
77         $user_email = $_POST['user_email'];
78         $user_password = $_POST['user_password'];
79         $result = $this->model->login($user_email, $user_password);
80         if ($result) {
81             // Login successful
82         } else {
83             // Login failed
84         }
85     }
86     public function check_email() {
87         $email = $_POST['email'];
88         $result = $this->model->check_email($email);
89         if ($result) {
90             // Email already exists
91         } else {
92             // Email is available
93         }
94     }
95     public function check_hp() {
96         $hp = $_POST['hp'];
97         $result = $this->model->check_hp($hp);
98         if ($result) {
99             // HP already exists
100            } else {
101                // HP is available
102            }
103        }
104        public function check_pos() {
105            $pos = $_POST['pos'];
106            $result = $this->model->check_pos($pos);
107            if ($result) {
108                // Pos already exists
109            } else {
110                // Pos is available
111            }
112        }
113    }

```

Ini merupakan home registrasi di folder controller, yang fungsinya sebagai proses logika sistem atau validasi dan untuk memanggil model mengakses ke database.

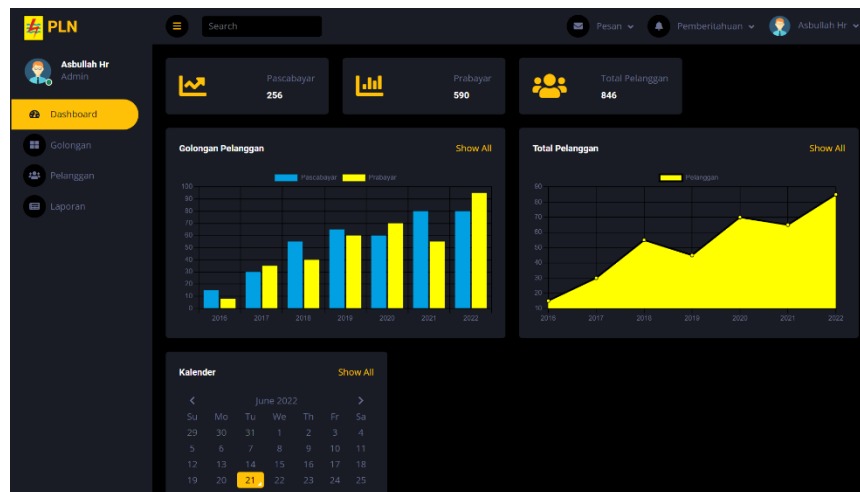
Ini merupakan model bagian registrasi, yang fungsinya mengelola informasi di database, kemudian model ini menyerahkan hasil pengolahan informasi database ke controller

Ini merupakan view registrasi, yang fungsinya menampilkan *user interface*

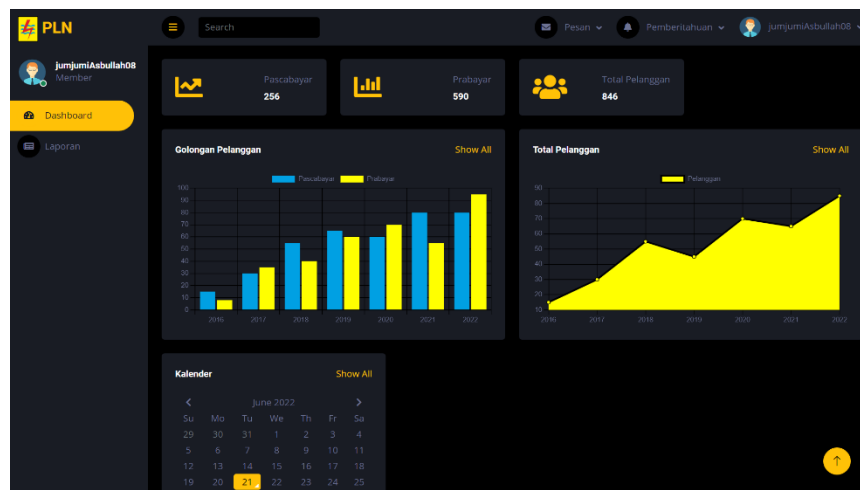
Setelah berhasil membuat sebuah akun, maka akan diarahkan ke halaman login, tampilan halaman login sebagai berikut :

```
login.php
1 <?php
2 namespace App\Controllers;
3 use App\Controllers;
4 use App\Models;
5
6 class Login extends Controller {
7     public function index() {
8         $model = new Model();
9         $data['row_login'] = $model->login($data);
10         $this->view('login/index', $data);
11     }
12
13     public function login() {
14         $user_email = $this->request->getPost('user_email');
15         $user_password = $this->request->getPost('user_password');
16         $model = new Model();
17         $data = $model->login($user_email, $user_password);
18
19         if ($data == 'gagal') {
20             header('Location: http://127.0.0.1:8080/wsc/login/');
21         } else {
22             $SESSION['user_email'] = $data['user_email'];
23             $SESSION['user_password'] = $data['user_password'];
24             $SESSION['user_name'] = $data['user_name'];
25
26             if ($data['user_email'] == '1') {
27                 $SESSION['user_name'] = 'Admin';
28                 header('Location: http://127.0.0.1:8080/wsc/admin/');
29             } else {
30                 $data['user_login'] = 'Username atau Password anda salah!';
31                 header('Location: http://127.0.0.1:8080/wsc/login/');
32                 $this->view('login/index', $data);
33             }
34         }
35     }
36 }
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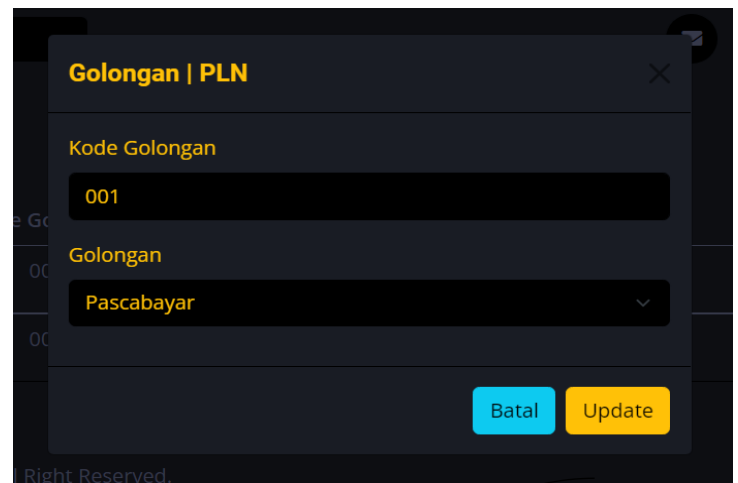
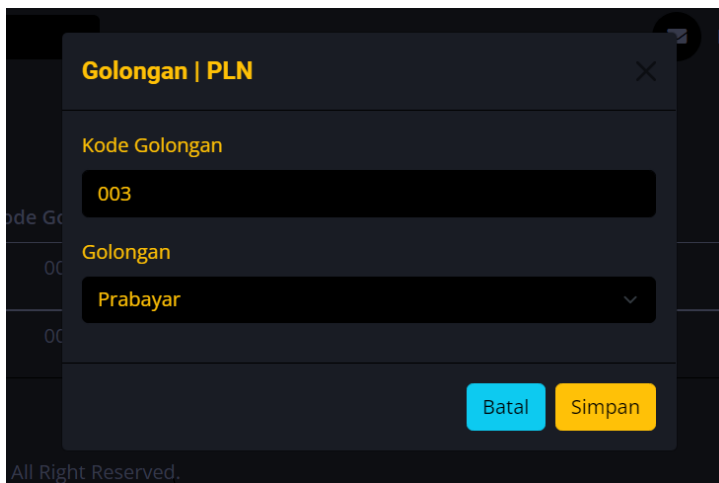
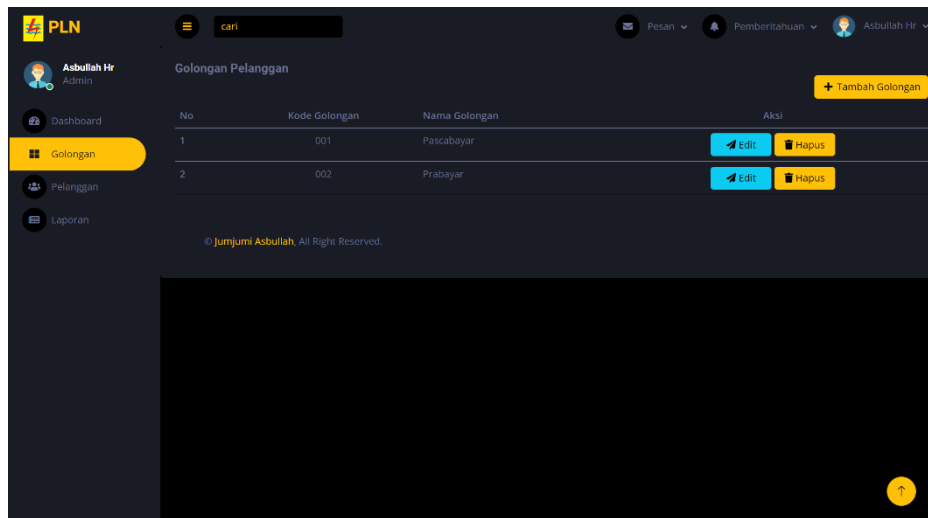
Dibagian login ini, saya buat sebuah role, yang akan memberikan sebuah fungsi login untuk admin dan member. Untuk tampilan halaman dashboard admin dengan menu – menu sebagai berikut : dashboard -> golongan -> pelanggan -> laporan -> keluar



Untuk dashboard member, hanya beberapa menu saja, diantaranya : dashboard -> laporan -> keluar



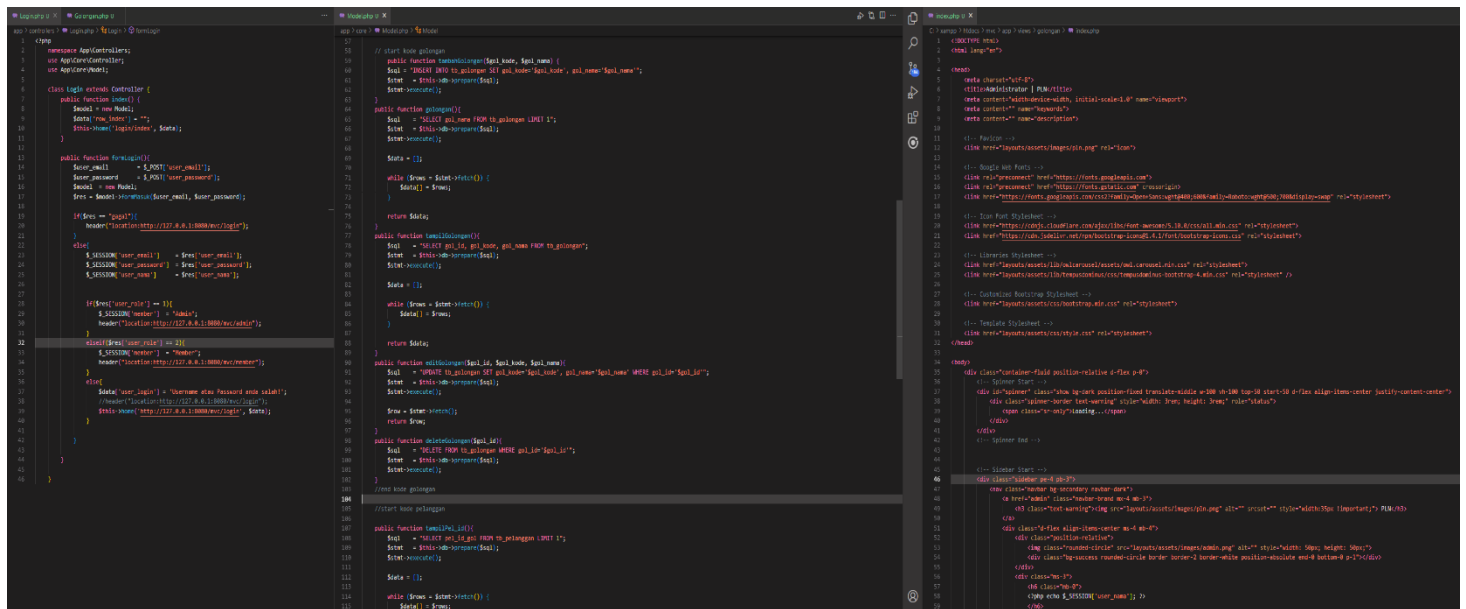
Untuk bagian menu golongan terdapat sebuah crud, tampilan menu golongan sebagai berikut:



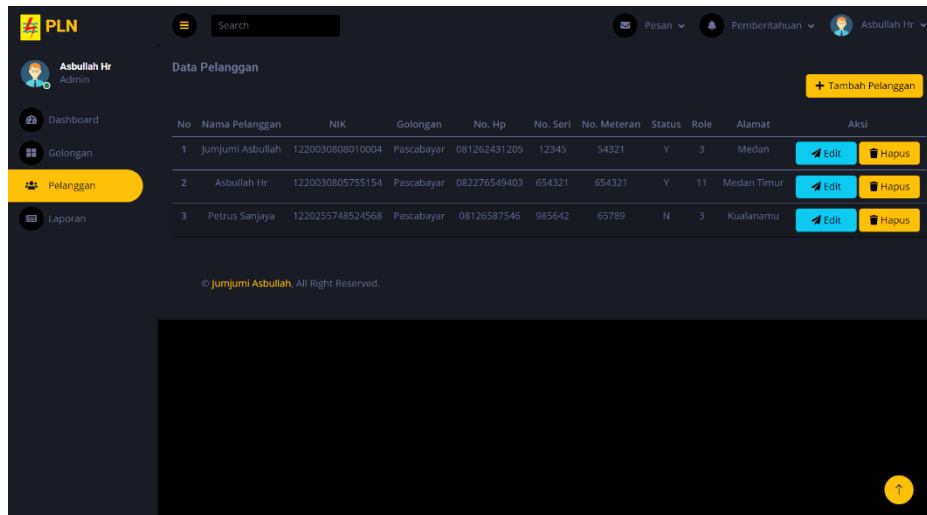
Ini merupakan tampilan tambah data di menu golongan

Ini merupakan tampilan edit/update data di menu golongan

Source code Program :



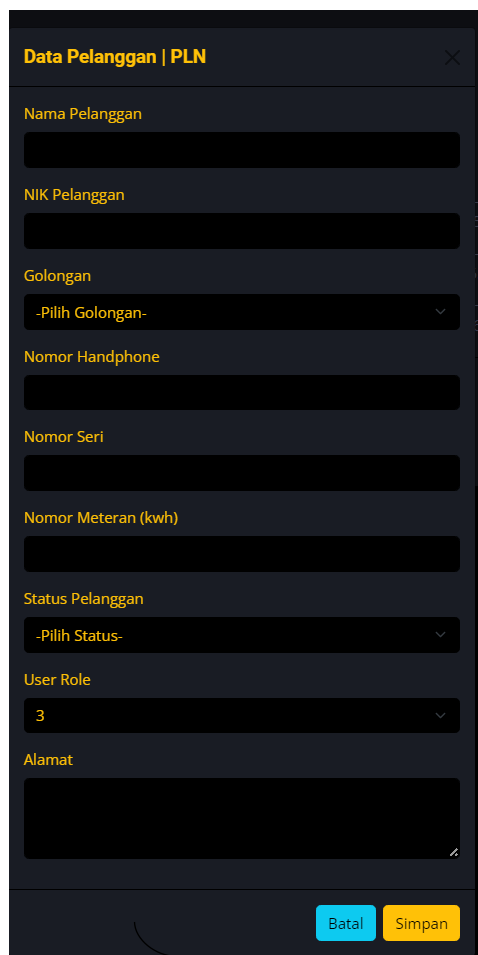
Untuk bagian menu pelanggan terdapat crud juga, tampilannya sebagai berikut :



The screenshot shows a web application interface for PLN. The top header includes the PLN logo, a search bar, and user information (Asbullah Hr, Admin). The left sidebar contains navigation links: Dashboard, Golongan, Pelanggan (highlighted), and Laporan. The main content area is titled 'Data Pelanggan' and features a '+ Tambah Pelanggan' button. Below the button is a table with the following data:

No	Nama Pelanggan	NIK	Golongan	No. Hp	No. Seri	No. Meteran	Status	Role	Alamat	Aksi
1	Jumjumi Asbullah	1220030808010004	Pascabayar	081262431205	12345	54321	Y	3	Medan	Edit Hapus
2	Asbullah Hr	1220030805755154	Pascabayar	082276549403	654321	654321	Y	11	Medan Timur	Edit Hapus
3	Petrus Sanjaya	1220255748524568	Pascabayar	08126587546	985642	65789	N	3	Kualanamu	Edit Hapus

At the bottom of the table area, there is a copyright notice: © Jumjumi Asbullah, All Right Reserved.

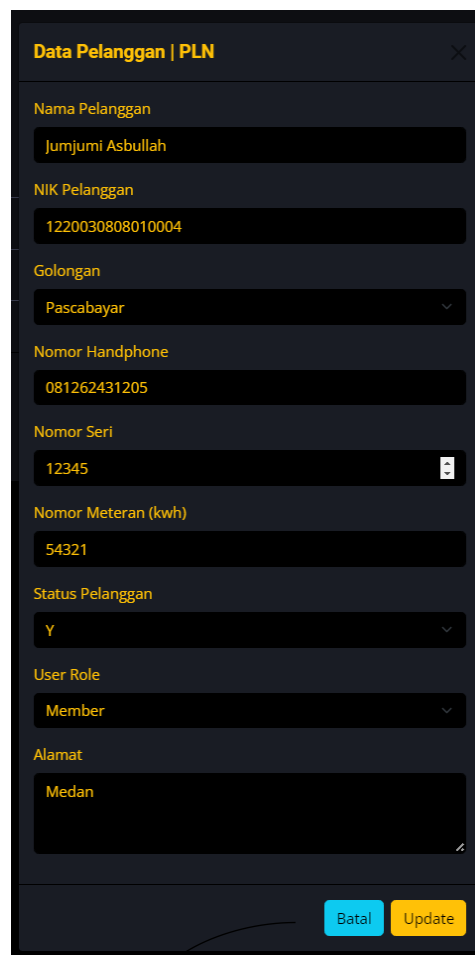


This is a form titled 'Data Pelanggan | PLN' for adding a new customer. It contains the following fields:

- Nama Pelanggan: Text input field.
- NIK Pelanggan: Text input field.
- Golongan: Dropdown menu with the option '-Pilih Golongan-'.
- Nomor Handphone: Text input field.
- Nomor Seri: Text input field.
- Nomor Meteran (kwh): Text input field.
- Status Pelanggan: Dropdown menu with the option '-Pilih Status-'.
- User Role: Dropdown menu with the option '3'.
- Alamat: Text area input field.

At the bottom right, there are two buttons: 'Batal' (Cancel) and 'Simpan' (Save).

Ini merupakan tampilan tambah data di menu pelanggan



This is a form titled 'Data Pelanggan | PLN' for editing an existing customer. It contains the following fields:

- Nama Pelanggan: Text input field with the value 'Jumjumi Asbullah'.
- NIK Pelanggan: Text input field with the value '1220030808010004'.
- Golongan: Dropdown menu with the option 'Pascabayar'.
- Nomor Handphone: Text input field with the value '081262431205'.
- Nomor Seri: Text input field with the value '12345'.
- Nomor Meteran (kwh): Text input field with the value '54321'.
- Status Pelanggan: Dropdown menu with the option 'Y'.
- User Role: Dropdown menu with the option 'Member'.
- Alamat: Text area input field with the value 'Medan'.

At the bottom right, there are two buttons: 'Batal' (Cancel) and 'Update'.

Ini merupakan tampilan edit/update data di menu pelanggan


Source code :


```


1 // namespace App\Controllers;
2 use App\Core\Controllers;
3 use App\Core\Models;
4
5 class Pelanggan extends Controller {
6     public function index() {
7
8         $model = new Model();
9         $data['row_index'] = $model->ambilPelanggan();
10         $data['row_name'] = $model->ambilPelanggan();
11         $data['row_surname'] = $model->ambilPelanggan();
12         $data['row_gol'] = $model->ambilGol();
13         $this->showPage($data, $data);
14     }
15
16     public function savePelanggan() {
17         $pel_id_gol = $POST['pel_id_gol'];
18         $pel_nama = $POST['pel_nama'];
19         $pel_klaim = $POST['pel_klaim'];
20         $pel_jp = $POST['pel_jp'];
21         $pel_ktp = $POST['pel_ktp'];
22         $pel_ser = $POST['pel_ser'];
23         $pel_nomeran = $POST['pel_nomeran'];
24         $pel_watiff = $POST['pel_watiff'];
25         $pel_id_ser = $POST['pel_id_ser'];
26
27         $model = new Model();
28         $model->savePelanggan($pel_id_gol, $pel_nama, $pel_klaim, $pel_jp, $pel_ktp, $pel_ser, $pel_nomeran, $pel_watiff, $pel_id_ser);
29         header("Location:../pelanggan");
30     }
31
32     public function hapusPelanggan($pel_id) {
33         $model = new Model();
34         $model->hapusPelanggan($pel_id);
35         header("Location:../pelanggan");
36     }
37
38     public function editPelanggan() {
39         $pel_id = $POST['pel_id'];
40         $pel_id_gol = $POST['pel_id_gol'];
41         $pel_nama = $POST['pel_nama'];
42         $pel_klaim = $POST['pel_klaim'];
43         $pel_jp = $POST['pel_jp'];
44         $pel_ktp = $POST['pel_ktp'];
45         $pel_ser = $POST['pel_ser'];
46
47         $model = new Model();
48         $model->editPelanggan($pel_id, $pel_id_gol, $pel_nama, $pel_klaim, $pel_jp, $pel_ktp, $pel_ser, $pel_nomeran, $pel_watiff, $pel_id_ser);
49         header("Location:../pelanggan");
50     }
51 }
52
53 // namespace App\Controllers;
54 use App\Core\Controllers;
55 use App\Core\Models;
56
57 class Pelanggan extends Controller {
58     public function index() {
59
60         $model = new Model();
61         $data['row_index'] = $model->ambilPelanggan();
62         $data['row_name'] = $model->ambilPelanggan();
63         $data['row_surname'] = $model->ambilPelanggan();
64         $data['row_gol'] = $model->ambilGol();
65         $this->showPage($data, $data);
66     }
67
68     public function savePelanggan() {
69         $pel_id_gol = $POST['pel_id_gol'];
70         $pel_nama = $POST['pel_nama'];
71         $pel_klaim = $POST['pel_klaim'];
72         $pel_jp = $POST['pel_jp'];
73         $pel_ktp = $POST['pel_ktp'];
74         $pel_ser = $POST['pel_ser'];
75         $pel_nomeran = $POST['pel_nomeran'];
76         $pel_watiff = $POST['pel_watiff'];
77         $pel_id_ser = $POST['pel_id_ser'];
78
79         $model = new Model();
80         $model->savePelanggan($pel_id_gol, $pel_nama, $pel_klaim, $pel_jp, $pel_ktp, $pel_ser, $pel_nomeran, $pel_watiff, $pel_id_ser);
81         header("Location:../pelanggan");
82     }
83
84     public function hapusPelanggan($pel_id) {
85         $model = new Model();
86         $model->hapusPelanggan($pel_id);
87         header("Location:../pelanggan");
88     }
89
90     public function editPelanggan() {
91         $pel_id = $POST['pel_id'];
92         $pel_id_gol = $POST['pel_id_gol'];
93         $pel_nama = $POST['pel_nama'];
94         $pel_klaim = $POST['pel_klaim'];
95         $pel_jp = $POST['pel_jp'];
96         $pel_ktp = $POST['pel_ktp'];
97         $pel_ser = $POST['pel_ser'];
98
99         $model = new Model();
100         $model->editPelanggan($pel_id, $pel_id_gol, $pel_nama, $pel_klaim, $pel_jp, $pel_ktp, $pel_ser, $pel_nomeran, $pel_watiff, $pel_id_ser);
101         header("Location:../pelanggan");
102     }
103 }


```


Tampilan Menu Laporan admin dan Member :


**PLN**





 Pesan ▾


 Pemberitahuan ▾


 Asbullah Hr ▾

 **Asbullah Hr**
Admin

 Dashboard

 Golongan

 Pelanggan

 Laporan

Data Pelanggan

Cetak

No	Nama Pelanggan	NIK	Golongan	No. Hp	No. Seri	No. Meteran	Status	Role	Alamat
1	Jumjumi Asbullah	1220030808010004	Pascabayar	081262431205	12345	54321	Y	3	Medan
2	Asbullah Hr	1220030805755154	Pascabayar	082276549403	654321	654321	Y	11	Medan Timur
3	Petrus Sanjaya	1220255748524568	Pascabayar	08126587546	985642	65789	N	3	Kualanamu

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PLN

Search

Pesan

Pemberitahuan

jumjumiAsbullah08

jumjumiAsbullah08

Member

Data Pelanggan

Cetak

Dashboard

Laporan

No	Nama Pelanggan	NIK	Golongan	No. Hp	No. Seri	No. Meteran	Status	Role	Alamat
1	Jumjumi Asbullah	1220030808010004	Pascabayar	081262431205	12345	54321	Y	3	Medan
2	Asbullah Hr	1220030805755154	Pascabayar	082276549403	654321	654321	Y	11	Medan Timur
3	Petrus Sanjaya	1220255748524568	Pascabayar	08126587546	985642	65789	N	3	Kualanam

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Data siap di print out

Print

Total: 1 sheet of paper

Printer

Canon MP280 series Printer

Copies

1

Layout

Portrait

Landscape

Pages

All

e.g. 1-5, 8, 11-13

Color

Color

Print on both sides

Print on one side

More settings

Print using system dialog (Ctrl+Shift+P)

Print

Cancel

Data Pelanggan

No	Nama Pelanggan	NIK	Golongan	No. Hp	No. Seri	No. Meteran	Alamat
1	Jumjumi Asbullah	1220030808010004	Pascabayar	081262431205	12345	54321	Medan
2	Asbullah Hr	1220030805755154	Pascabayar	082276549403	654321	654321	Medan Timur
3	Petrus Sanjaya	1220255748524568	Pascabayar	08126587546	985642	65789	Kualanamu

3. Link Github saya :
<https://github.com/Amiamanda1/tugas-2/blob/main/mvc.zip>