

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 :

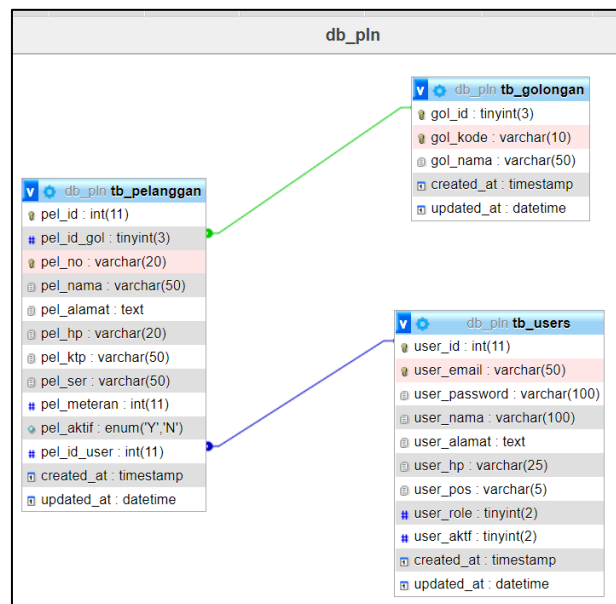
```
CREATE DATABASE `db_pln` ;
CREATE TABLE `tb_golongan` (
  `gol_id` tinyint(3) NOT NULL AUTO_INCREMENT,
  `gol_kode` varchar(10) NOT NULL,
  `gol_nama` varchar(50) NOT NULL,
  `created_at` timestamp NOT NULL DEFAULT current_timestamp() ON UPDATE
current_timestamp(),
  `updated_at` datetime NOT NULL,
  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;

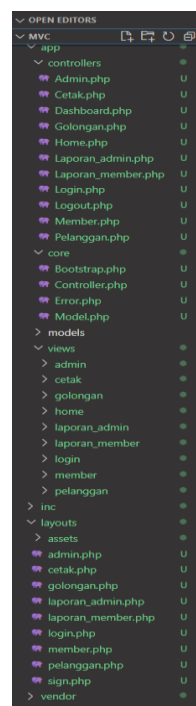
```

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.

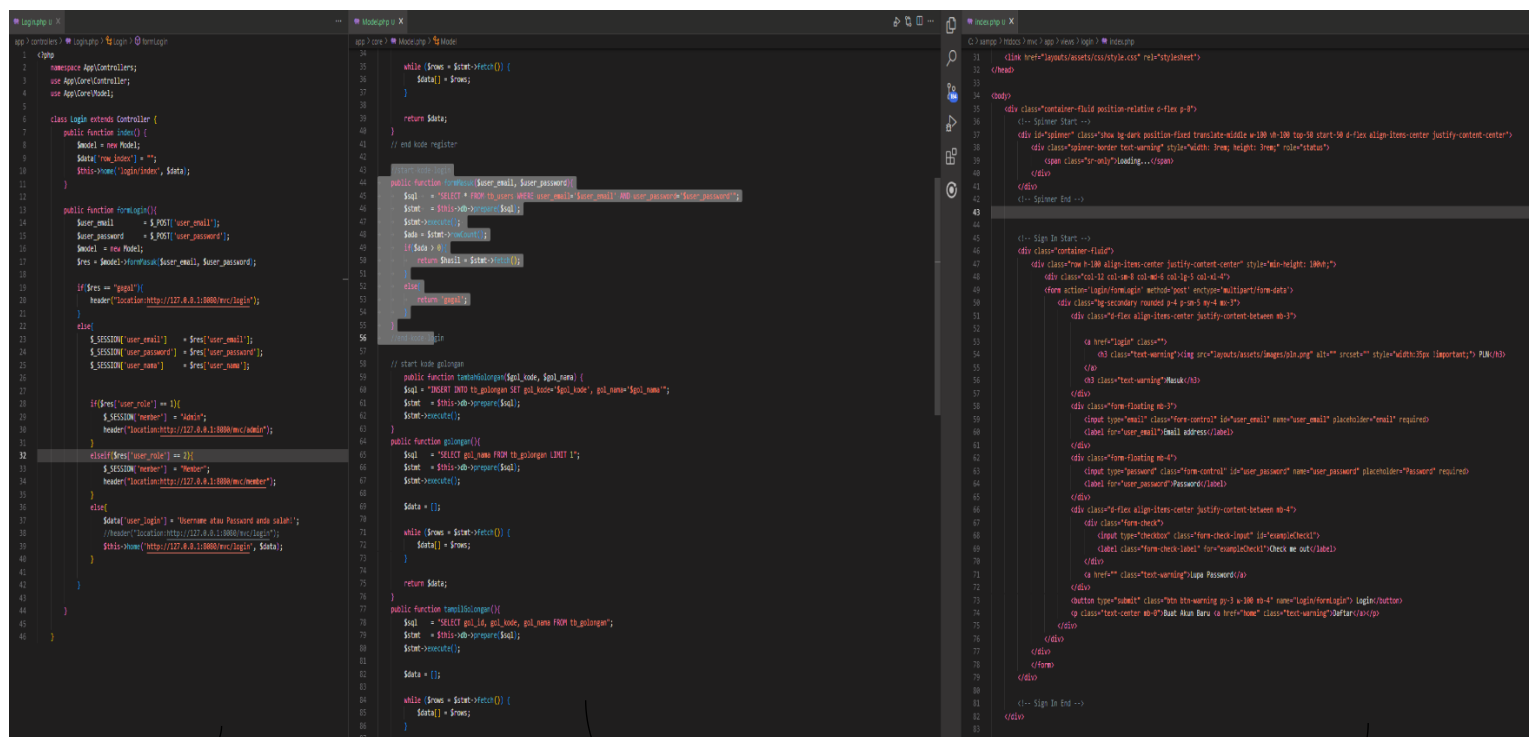
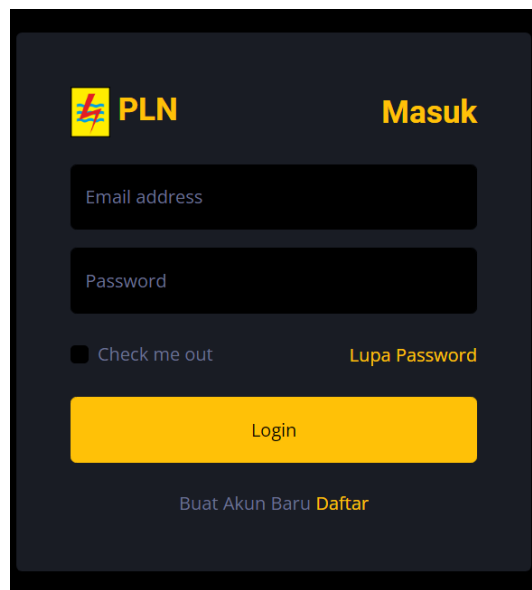
b. Halaman Daftar / Registrasi

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

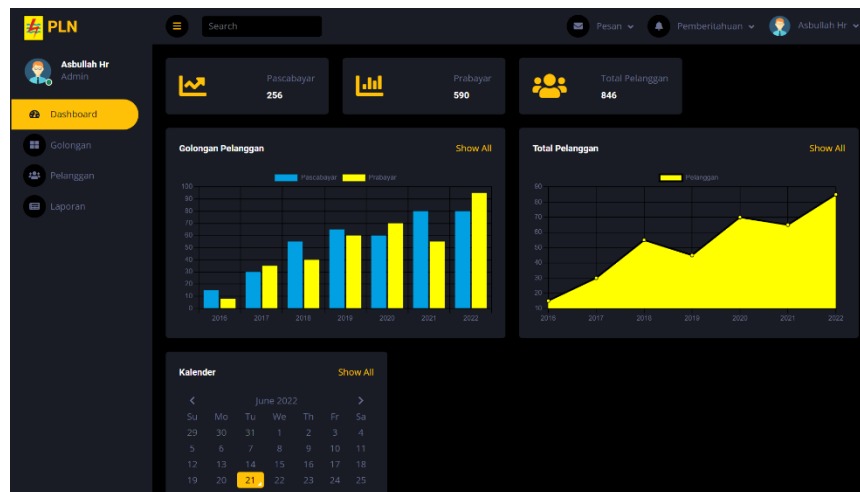
Ini merupakan view registrasi, yang fungsinya menampilkan *user interface*

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

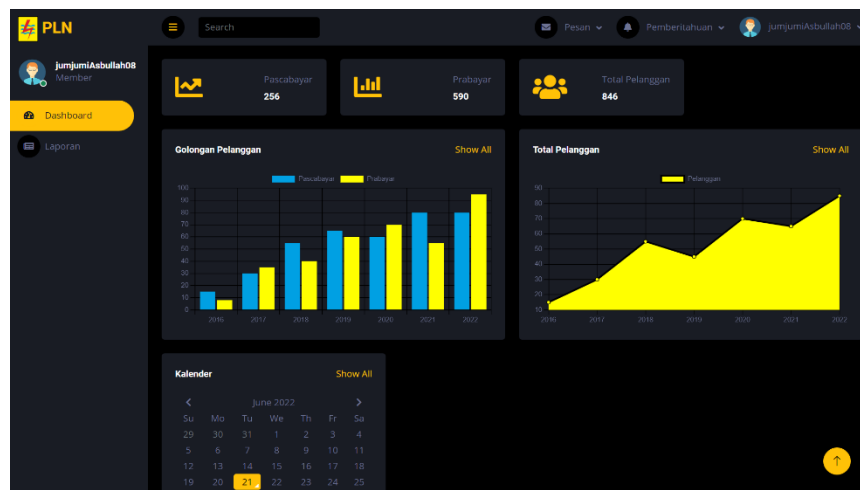


```
login.php
1 <?php
2 namespace App\Controllers;
3 use App\Controllers;
4 use App\Models;
5
6 class Login extends Controller {
7     public function index() {
8         $model = new Model();
9         $data['row_login'] = $model->login($data);
10         $this->view('login/index', $data);
11     }
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_role'] == '1') {
27                 $SESSION['user_role'] = 'Admin';
28                 header('Location: http://127.0.0.1:8080/wsc/admin/');
29             } else {
30                 $data['user_login'] = 'User 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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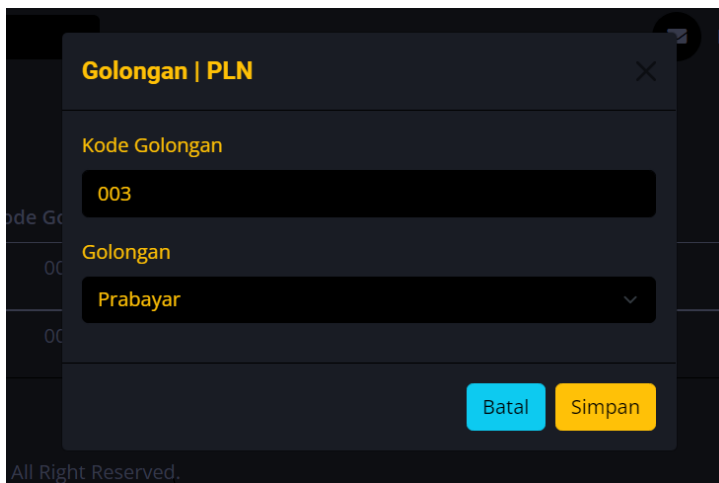
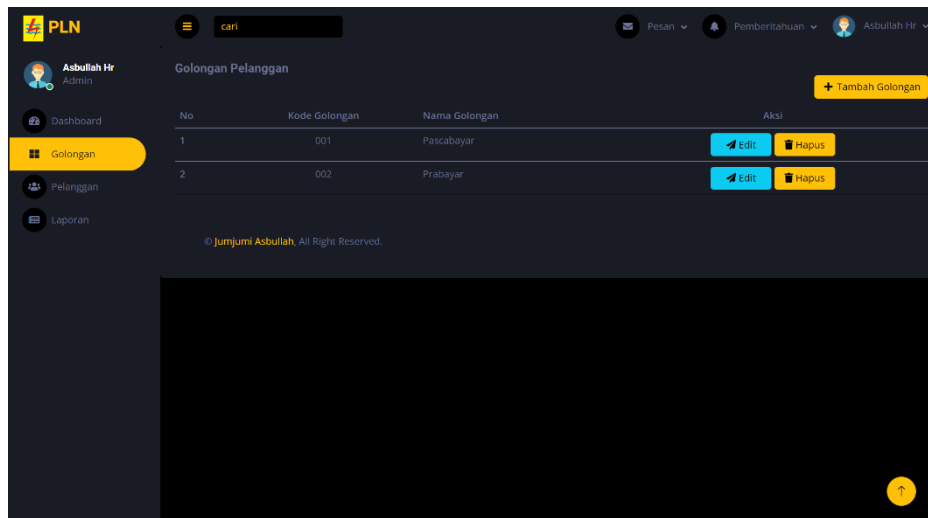
Dibagian login ini, saya buat sebuah role, yang akan memberikan sebuah fungsi login untuk admin dan member. Untuk tampilan halaman dashboard admin dengan menu – menu sebagai berikut : dashboard -> golongan -> pelanggan -> laporan -> keluar



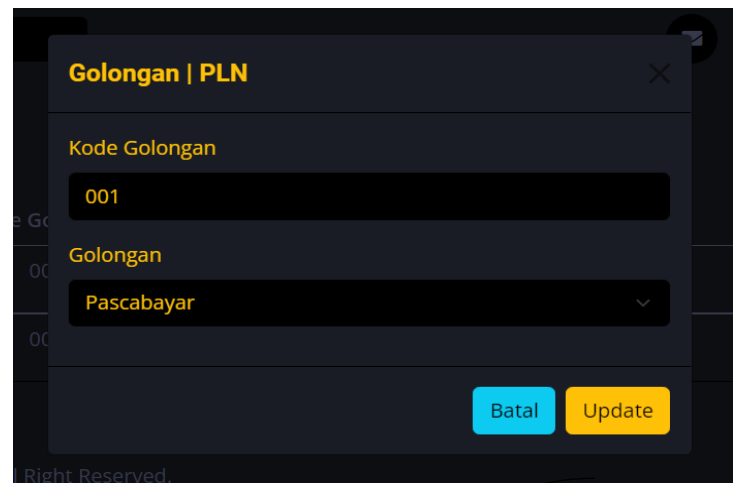
Untuk dashboard member, hanya beberapa menu saja, diantaranya : dashboard -> laporan -> keluar



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

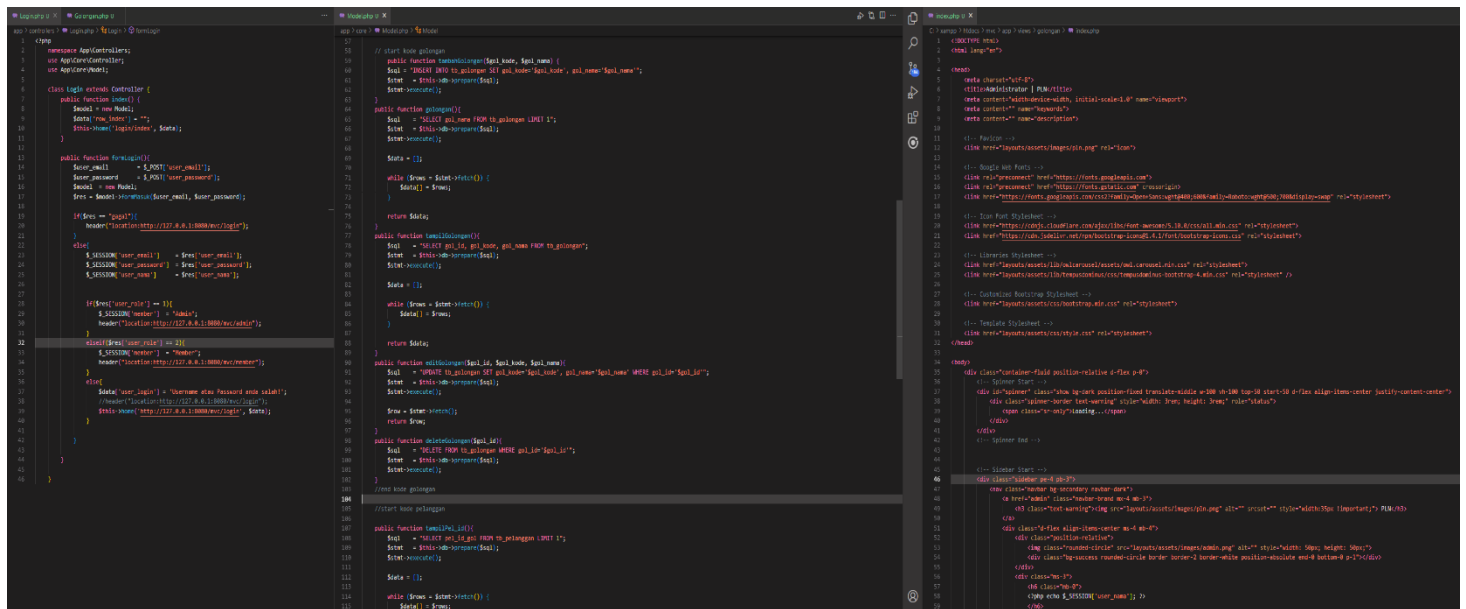


Ini merupakan tampilan tambah data di menu golongan

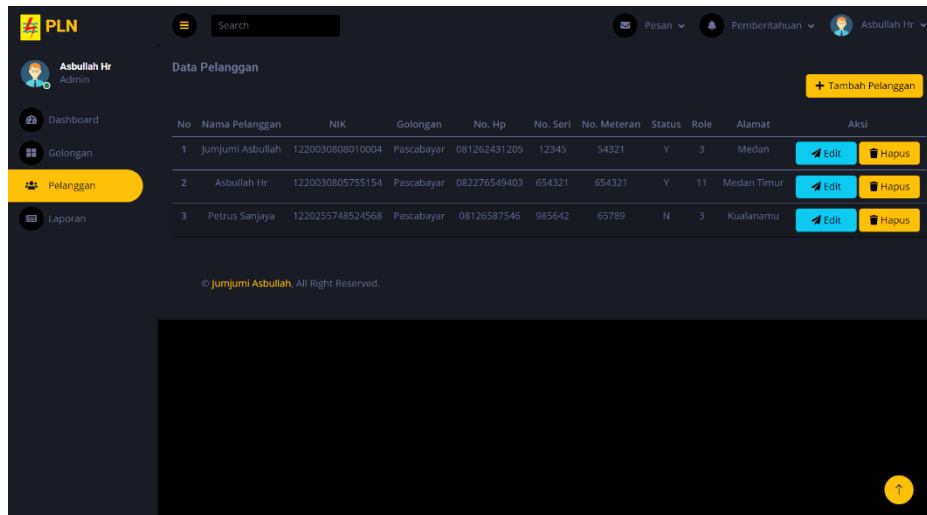


Ini merupakan tampilan edit/update data di menu golongan

Source code Program :

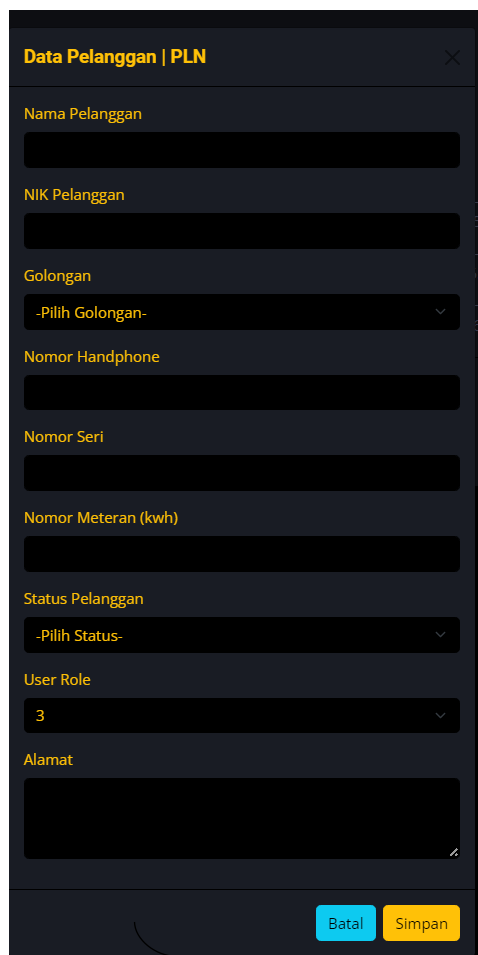


Untuk bagian menu pelanggan terdapat crud juga, tampilannya sebagai berikut :



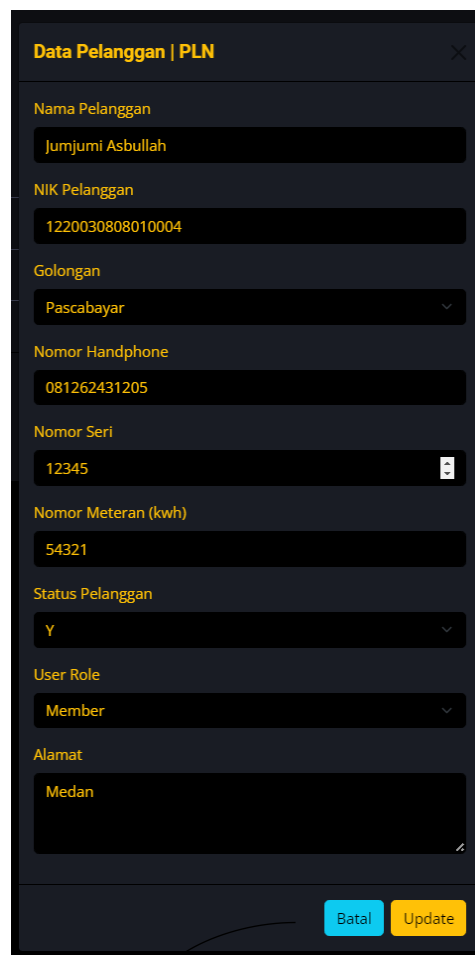
The screenshot shows a web application interface for PLN. The top header includes the PLN logo, a search bar, and user information (Asbullah Hr, Admin). The left sidebar contains navigation links: Dashboard, Golongan, Pelanggan (highlighted), and Laporan. The main content area is titled 'Data Pelanggan' and features a table with customer data. A '+ Tambah Pelanggan' button is located in the top right corner of the table area. The footer of the table area includes a copyright notice: '© Jumjumi Asbullah, All Right Reserved.'

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



This is a form titled 'Data Pelanggan | PLN' for adding a new customer. It contains several input fields and dropdown menus. The fields are: Nama Pelanggan, NIK Pelanggan, Golongan (with a dropdown menu), Nomor Handphone, Nomor Seri, Nomor Meteran (kwh), Status Pelanggan (with a dropdown menu), User Role (with a dropdown menu), and Alamat. 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 several input fields and dropdown menus. The fields are: Nama Pelanggan, NIK Pelanggan, Golongan (with a dropdown menu), Nomor Handphone, Nomor Seri, Nomor Meteran (kwh), Status Pelanggan (with a dropdown menu), User Role (with a dropdown menu), and Alamat. At the bottom right, there are two buttons: 'Batal' (Cancel) and 'Update'.


Ini merupakan tampilan edit/update data di menu pelanggan





```


1 1 <?php
2 namespace App\Controllers;
3 use App\Controllers;
4 use App\Models;
5
6 class Pelanggan extends Controller {
7     public function index() {
8
9         $model = new Model();
10         $data['row_index'] = $model->ambilPelanggan();
11         $data['row_kode'] = $model->ambilKodePelanggan();
12         $data['row_user'] = $model->ambilUser();
13         $data['row_gol'] = $model->ambilGol();
14         $this->view('pelanggan/index', $data);
15     }
16
17     public function tambahPelanggan() {
18         $pel_id_gol = $this->input('pel_id_gol');
19         $pel_nama = $this->input('pel_nama');
20         $pel_alamat = $this->input('pel_alamat');
21         $pel_jy = $this->input('pel_jy');
22         $pel_ktp = $this->input('pel_ktp');
23         $pel_jer = $this->input('pel_jer');
24         $pel_nomorpan = $this->input('pel_nomorpan');
25         $pel_utifid = $this->input('pel_utifid');
26         $pel_id_user = $this->input('pel_id_user');
27
28         $model = new Model();
29         $model->simpanPelanggan($pel_id_gol, $pel_nama, $pel_alamat, $pel_jy, $pel_ktp, $pel_jer, $pel_nomorpan, $pel_utifid, $pel_id_user);
30         header('location:../pelanggan');
31     }
32
33     public function hapusPelanggan($pel_id) {
34         $model = new Model();
35         $model->hapusPelanggan($pel_id);
36         header('location:../pelanggan');
37     }
38
39     public function editPelanggan() {
40         $pel_id = $this->input('pel_id');
41         $pel_id_gol = $this->input('pel_id_gol');
42         $pel_nama = $this->input('pel_nama');
43         $pel_alamat = $this->input('pel_alamat');
44         $pel_jy = $this->input('pel_jy');
45         $pel_ktp = $this->input('pel_ktp');
46         $pel_jer = $this->input('pel_jer');
47         $pel_nomorpan = $this->input('pel_nomorpan');
48         $pel_utifid = $this->input('pel_utifid');
49         $pel_id_user = $this->input('pel_id_user');
50
51         $model = new Model();
52         $model->editPelanggan($pel_id, $pel_id_gol, $pel_nama, $pel_alamat, $pel_jy, $pel_ktp, $pel_jer, $pel_nomorpan, $pel_utifid, $pel_id_user);
53         header('location:../pelanggan');
54     }
55 }
56
57 namespace App\Controllers;
58 use App\Controllers;
59 use App\Models;
60
61 class Pelanggan extends Controller {
62     public function index() {
63
64         $model = new Model();
65         $data['row_index'] = $model->ambilPelanggan();
66         $data['row_kode'] = $model->ambilKodePelanggan();
67         $data['row_user'] = $model->ambilUser();
68         $data['row_gol'] = $model->ambilGol();
69         $this->view('pelanggan/index', $data);
70     }
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78         $pel_jer = $this->input('pel_jer');
79         $pel_nomorpan = $this->input('pel_nomorpan');
80         $pel_utifid = $this->input('pel_utifid');
81         $pel_id_user = $this->input('pel_id_user');
82
83         $model = new Model();
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85         header('location:../pelanggan');
86     }
87
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92     }
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94     public function editPelanggan() {
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97         $pel_nama = $this->input('pel_nama');
98         $pel_alamat = $this->input('pel_alamat');
99         $pel_jy = $this->input('pel_jy');
100        $pel_ktp = $this->input('pel_ktp');
101        $pel_jer = $this->input('pel_jer');
102        $pel_nomorpan = $this->input('pel_nomorpan');
103        $pel_utifid = $this->input('pel_utifid');
104        $pel_id_user = $this->input('pel_id_user');
105
106        $model = new Model();
107        $model->editPelanggan($pel_id, $pel_id_gol, $pel_nama, $pel_alamat, $pel_jy, $pel_ktp, $pel_jer, $pel_nomorpan, $pel_utifid, $pel_id_user);
108        header('location:../pelanggan');
109    }
110 }
111
112 namespace App\Controllers;
113 use App\Controllers;
114 use App\Models;
115
116 class Pelanggan extends Controller {
117     public function index() {
118
119         $model = new Model();
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121         $data['row_kode'] = $model->ambilKodePelanggan();
122         $data['row_user'] = $model->ambilUser();
123         $data['row_gol'] = $model->ambilGol();
124         $this->view('pelanggan/index', $data);
125     }
126
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132         $pel_ktp = $this->input('pel_ktp');
133         $pel_jer = $this->input('pel_jer');
134         $pel_nomorpan = $this->input('pel_nomorpan');
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138         $model = new Model();
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151         $pel_id_gol = $this->input('pel_id_gol');
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157         $pel_nomorpan = $this->input('pel_nomorpan');
158         $pel_utifid = $this->input('pel_utifid');
159         $pel_id_user = $this->input('pel_id_user');
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161         $model = new Model();
162         $model->editPelanggan($pel_id, $pel_id_gol, $pel_nama, $pel_alamat, $pel_jy, $pel_ktp, $pel_jer, $pel_nomorpan, $pel_utifid, $pel_id_user);
163         header('location:../pelanggan');
164     }
165 }
166
167 namespace App\Controllers;
168 use App\Controllers;
169 use App\Models;
170
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172     public function index() {
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177         $data['row_user'] = $model->ambilUser();
178         $data['row_gol'] = $model->ambilGol();
179         $this->view('pelanggan/index', $data);
180     }
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182     public function tambahPelanggan() {
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207         $pel_nama = $this->input('pel_nama');
208         $pel_alamat = $this->input('pel_alamat');
209         $pel_jy = $this->input('pel_jy');
210         $pel_ktp = $this->input('pel_ktp');
211         $pel_jer = $this->input('pel_jer');
212         $pel_nomorpan = $this->input('pel_nomorpan');
213         $pel_utifid = $this->input('pel_utifid');
214         $pel_id_user = $this->input('pel_id_user');
215
216         $model = new Model();
217         $model->editPelanggan($pel_id, $pel_id_gol, $pel_nama, $pel_alamat, $pel_jy, $pel_ktp, $pel_jer, $pel_nomorpan, $pel_utifid, $pel_id_user);
218         header('location:../pelanggan');
219     }
220 }
221
222 namespace App\Controllers;
223 use App\Controllers;
224 use App\Models;
225
226 class Pelanggan extends Controller {
227     public function index() {
228
229         $model = new Model();
230         $data['row_index'] = $model->ambilPelanggan();
231         $data['row_kode'] = $model->ambilKodePelanggan();
232         $data['row_user'] = $model->ambilUser();
233         $data['row_gol'] = $model->ambilGol();
234         $this->view('pelanggan/index', $data);
235     }
236
237     public function tambahPelanggan() {
238         $pel_id_gol = $this->input('pel_id_gol');
239         $pel_nama = $this->input('pel_nama');
240         $pel_alamat = $this->input('pel_alamat');
241         $pel_jy = $this->input('pel_jy');
242         $pel_ktp = $this->input('pel_ktp');
243         $pel_jer = $this->input('pel_jer');
244         $pel_nomorpan = $this->input('pel_nomorpan');
245         $pel_utifid = $this->input('pel_utifid');
246         $pel_id_user = $this->input('pel_id_user');
247
248         $model = new Model();
249         $model->simpanPelanggan($pel_id_gol, $pel_nama, $pel_alamat, $pel_jy, $pel_ktp, $pel_jer, $pel_nomorpan, $pel_utifid, $pel_id_user);
250         header('location:../pelanggan');
251     }
252
253     public function hapusPelanggan($pel_id) {
254         $model = new Model();
255         $model->hapusPelanggan($pel_id);
256         header('location:../pelanggan');
257     }
258
259     public function editPelanggan() {
260         $pel_id = $this->input('pel_id');
261         $pel_id_gol = $this->input('pel_id_gol');
262         $pel_nama = $this->input('pel_nama');
263         $pel_alamat = $this->input('pel_alamat');

```


PLN



 Pesan
  Pemberitahuan
  Asbullah Hr


Asbullah Hr
Admin

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


Dashboard


Golongan


Pelanggan


Laporan


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PLN




Pesan


Pemberitahuan


jumjumiAsbullah08


jumjumiAsbullah08
Member

Data Pelanggan

Cetak

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

Dashboard

Laporan

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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
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3	Petrus Sanjaya	1220255748524568	Pascabayar	08126587546	985642	65789	Kualanamu

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