

**Mata Kuliah : Teknologi Web
Framework : CodeIgniter
Membuat Aplikasi Point Of Sales (POS)**

1) Desain Database

- ☑ Membuat database → **ci_pos.db**
- ☑ Membuat tabel → ada **5 tabel**, yaitu :

1. kategori_barang → 2 field

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
<input type="checkbox"/>	1	kategori_id	int(11)		No	None		AUTO_INCREMENT
<input type="checkbox"/>	2	nama_kategori	varchar(50)	latin1_swedish_ci	No	None		

2. barang → 4 field

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
<input type="checkbox"/>	1	barang_id	int(11)		No	None		AUTO_INCREMENT
<input type="checkbox"/>	2	kategori_id	int(11)		No	None		
<input type="checkbox"/>	3	nama_barang	varchar(50)	latin1_swedish_ci	No	None		
<input type="checkbox"/>	4	harga	int(11)		No	None		

3. transaksi → 3 field

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
<input type="checkbox"/>	1	transaksi_id	int(11)		No	None		AUTO_INCREMENT
<input type="checkbox"/>	2	tanggal_transaksi	date		No	None		
<input type="checkbox"/>	3	operator_id	int(11)		No	None		

4. transaksi_detail → 4 field

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
<input type="checkbox"/>	1	t_detail_id	int(11)		No	None		AUTO_INCREMENT
<input type="checkbox"/>	2	barang_id	int(11)		No	None		
<input type="checkbox"/>	3	transaksi_id	int(11)		No	None		
<input type="checkbox"/>	4	harga	int(11)		No	None		

5. operator → 5 field

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
<input type="checkbox"/>	1	operator_id	int(11)		No	None		AUTO_INCREMENT
<input type="checkbox"/>	2	nama_lengkap	varchar(50)	latin1_swedish_ci	No	None		
<input type="checkbox"/>	3	username	varchar(20)	latin1_swedish_ci	No	None		
<input type="checkbox"/>	4	password	varchar(32)	latin1_swedish_ci	No	None		
<input type="checkbox"/>	5	last_login	date		No	None		

- ☑ Membuat relasi antar tabel
- Cara membuatnya : Diklik **nama tabelnya** → **Structure** → **Relation View** → **Internal Relationship**

1. barang

Internal relationships

Kolom	Relasi internal		
barang_id	ci_pos		
kategori_id	ci_pos	kategori_barang	kategori_id
nama_barang	ci_pos		
harga	ci_pos		

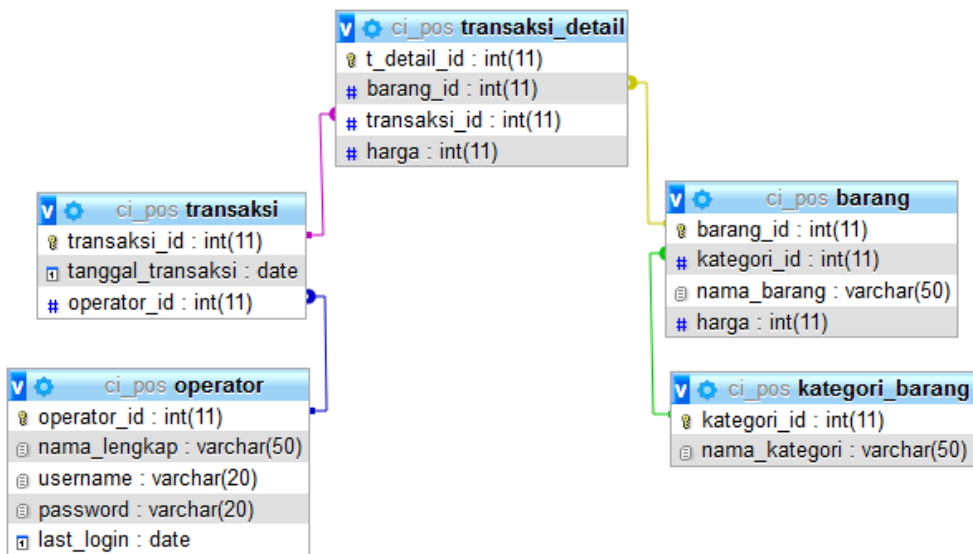
2. transaksi

Kolom	Relasi internal
transaksi_id	ci_pos
tanggal_transaksi	ci_pos
operator_id	ci_pos operator operator_id

3. transaksi_detail

Kolom	Relasi internal
t_detail_id	ci_pos
barang_id	ci_pos barang barang_id
transaksi_id	ci_pos transaksi transaksi_id
harga	ci_pos

Relasi antar tabel seperti berikut :



2) Login

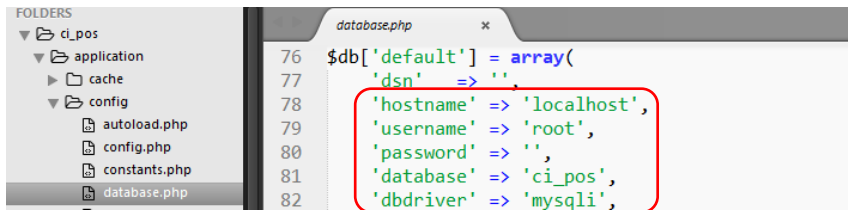
Setting di application → config → autoload.php, seperti berikut :

```
1 <?php
2 defined('BASEPATH') OR exit('No direct script access allowed');
3
4 $autoload['packages'] = array();
5
6 $autoload['libraries'] = array('session', 'database');
7
8 $autoload['drivers'] = array();
9
10 $autoload['helper'] = array('url', 'form');
11
12 $autoload['config'] = array();
13
14 $autoload['language'] = array();
15
16 $autoload['model'] = array();
```

Setting di application → config → config.php, seperti berikut :

```
22 | If you need to allow multiple domains, remember that this file is still
23 | a PHP script and you can easily do that on your own.
24 |
25 */
26 $config['base_url'] = 'http://localhost/ci_pos/';
27
28 /*
```

- ☑ Setting di **application** → **config** → **database.php**, seperti berikut :



- ☑ Membuat file di **controllers** → **Auth.php** (*authorization*)

```
1 <?php
2 class Auth extends CI_Controller
3 {
4     function login()
5     {
6         $this->load->view('form_login');
7     }
8 }
9 ?>
```

- ☑ Membuat file di **views** → **form_login.php**

```
1 <?php
2 echo form_open ('Auth/login');
3 ?>
4 <input type="text" name="username" placeholder="username">
5 <input type="password" name="password" placeholder="password">
6 <button type="submit" name="submit">Login</button>
7 </form>
```

http://localhost/ci_pos/index.php/Auth/login

➤ **Bagaimana output yang dihasilkan ?**

- ☑ Ketika tombol “Login” diklik → memproses data, namun jika tidak diklik → menampilkan di view

```
1 <?php
2 class Auth extends CI_Controller
3 {
4     function login()
5     {
6         if(isset($_POST['submit']))
7         {
8             echo "proses data";
9         }
10        else
11        {
12            $this->load->view('form_login');
13        }
14    }
15 }
16 ?>
```

- ☑ Membuat file di **models** → **model_operator.php** (*karena berhubungan dengan tabel operator*)

```
1 <?php
2 class model_operator extends CI_Model
3 {
4     function login($username,$password)
5     {
6         $cek=$this->db->get_where('operator',array('username'=>$username,'password'=>md5($password)));
7         if($cek->num_rows()>0)
8         {
9             return 1;
10        }
11        else
12        {
13            return 0;
14        }
15    }
16 }
17 ?>
```

☑ Menambahkan function di **Auth.php** dan proses login

```
1 <?php
2 class Auth extends CI_Controller
3 {
4     public function __construct()
5     {
6         parent::__construct();
7         $this->load->model('Model_operator');
8     }
9
10    function login()
11    {
12        if(isset($_POST['submit']))
13        {
14            //Proses Login
15            $username = $this->input->post('username');
16            $password = $this->input->post('password');
17            $hasil = $this->Model_operator->login($username,$password);
18            echo $hasil;
19        }
20        else
21        {
22            $this->load->view('form_login');
23        }
24    }
25 }
26 ?>
```

➤ Sisipkan username dan password pada tabel operator

➤ **Bagaimana output yang dihasilkan ?**

* Jika username dan password benar → 1

* Jika username dan password benar → 0

☑ Menambahkan di **Auth.php** → jika benar ke halaman dashboard, jika salah tetap di halaman login

```
1 <?php
2 class Auth extends CI_Controller
3 {
4     public function __construct()
5     {
6         parent::__construct();
7         $this->load->model('model_operator');
8     }
9
10    function login()
11    {
12        if(isset($_POST['submit']))
13        {
14            //Proses Login
15            $username = $this->input->post('username');
16            $password = $this->input->post('password');
17            $hasil = $this->model_operator->login($username,$password);
18            if ($hasil==1)
19            {
20                $this->session->set_userdata(array('status_login' =>'oke' ));
21                redirect('dashboard');
22            }
23            else
24            {
25                redirect('Auth/login');
26            }
27        }
28        else
29        {
30            $this->load->view('form_login');
31        }
32    }
33 }
34 ?>
```

☑ Menambahkan function logout

```
33     function logout()
34     {
35         $this->session->sess_destroy();
36         redirect('Auth/login');
37     }
```

➤ **Bagaimana output yang dihasilkan ?**

3) POS Kategori Lihat Data

☑ Ketika login akan dialihkan ke halaman **dashboard**

☑ Membuat file di **controllers** → **Dashboard.php**

```

1 <?php
2 class Dashboard extends CI_Controller
3 {
4     function index()
5     {
6         $this->load->view('view_dashboard');
7     }
8 }
9 ?>

```

- ☑ Membuat file di **views** → **view_dashboard.php** (untuk menampilkan beberapa menu)

```

1 <ul>
2 <li><?php echo anchor('Kategori','Kategori Barang'); ?></li>
3 <li><?php echo anchor('','Data Barang'); ?></li>
4 <li><?php echo anchor('','Laporan Transaksi'); ?></li>
5 <li><?php echo anchor('','Logout'); ?></li>
6 </ul>

```

➤ **Bagaimana output yang dihasilkan ?**

- ☑ Membuat file di **controllers** → **Kategori.php**

```

1 <?php
2 class Kategori extends CI_Controller
3 {
4     function index()
5     {
6         $this->load->view('kategori/lihat_data');
7     }
8 }
9 ?>

```

- ☑ Membuat folder di **views** → **kategori**, dengan nama file → **lihat_data.php**

```

1 <h3>Kategori Barang</h3>

```

- ☑ Membuat file di **models** → **model_kategori.php**

```

1 <?php
2 class model_kategori extends CI_Model
3 {
4     function tampilkan_data()
5     {
6         return $this->db->get('kategori_barang');
7     }
8 }
9 ?>

```

- ☑ Me-load model di controllers dan menampilkan data pada **Kategori.php**

```

1 <?php
2 class Kategori extends CI_Controller
3 {
4     function __construct()
5     {
6         parent::__construct();
7         $this->load->model('model_kategori');
8     }
9     function index()
10    {
11        $data['record']=$this->model_kategori->tampilkan_data();
12        $this->load->view('kategori/lihat_data',$data);
13    }
14 }
15 ?>

```

- ☑ Menampilkan data pada **lihat_data.php**

```

1 <h3>Kategori Barang</h3>
2 <?php
3     echo anchor('kategori/post','Tambah Data')
4 ?>
5 <table border="1">
6     <tr><th>No</th><th>Nama Kategori</th><th colspan="2">Operasi</th></tr>
7     <?php
8     $no=1;
9     foreach ($record->result() as $r)
10    {
11        echo "<tr>
12        <td>$no</td>
13        <td>$r->nama_kategori</td>
14        <td>".anchor('kategori/edit/'.$r->kategori_id,'Edit')."</td>
15        <td>".anchor('kategori/delete/'.$r->kategori_id,'Delete')."</td>
16        </tr>";
17        $no++;
18    }
19 ?>
20 </table>

```

- ☑ Sisipkan data pada tabel **kategori_barang**

http://localhost/ci_pos/index.php/kategori

➤ **Bagaimana output yang dihasilkan ?**

4) POS Kategori Tambah Data

☑ Membuat **function post** di **controllers** → **Kategori.php**

```
14 function post()
15 {
16     if(isset($_POST['submit']))
17     { }
18     else
19     {
20         $this->load->view('kategori/form_input');
21     }
22 }
```

☑ Membuat file di **views** folder **kategori** → **form_input.php**

```
1 <h3>Tambah Data Kategori</h3>
2 <?php
3     echo form_open ('kategori/post');
4 ?>
5 <table border="1">
6     <tr>
7         <td>Nama Kategori</td>
8         <td><input type="text" name="kategori" placeholder="kategori"></td>
9     </tr>
10    <tr><td colspan="2"><button type="submit" name="submit">Simpan</button></td></tr>
11 </table>
12 </form>
```

☑ Membuat proses kategori, jika diklik **Simpan** → maka akan menampilkan “**proses kategori**”

```
14 function post()
15 {
16     if(isset($_POST['submit']))
17     {
18         //proses kategori
19         echo "proses kategori";
20     }
21     else
22     {
23         $this->load->view('kategori/form_input');
24     }
25 }
```

➤ *Bagaimana output yang dihasilkan ?*

☑ Membuat **function post** di **models** → **model_kategori.php**

```
8 function post()
9 {
10     $data=array(
11         'nama_kategori'=> $this->input->post('kategori')
12     );
13     $this->db->insert('kategori_barang',$data);
14 }
```

☑ Merubah proses kategori, jika diklik **Simpan** → maka akan menampilkan data yang dimasukkan

```
14 function post()
15 {
16     if(isset($_POST['submit']))
17     {
18         //proses kategori
19         $this->model_kategori->post();
20         redirect('kategori');
21     }
22     else
23     {
24         $this->load->view('kategori/form_input');
25     }
26 }
```

http://localhost/ci_pos/index.php/kategori

➤ *Bagaimana output yang dihasilkan ?*

5) POS Kategori Edit Data

☑ Membuat **function edit** di **controllers** → **Kategori.php** (bisa copy dari function post)

```
27 function edit()
28 {
29     if(isset($_POST['submit']))
30     {
31         //proses kategori
32         $this->model_kategori->post();
33         redirect('kategori');
34     }
35     else
36     {
37         $this->load->view('kategori/form_edit');
38     }
39 }
```

- ☑ Membuat file di **views** folder **kategori** → **form_edit.php** (bisa copy dari **form_input.php**)

```
1 <h3>Edit Data Kategori</h3>
2 <?php
3     echo form_open ('kategori/edit');
4 ?>
5 <table border="1">
6     <tr>
7         <td>Nama Kategori</td>
8         <td><input type="text" name="kategori" placeholder="kategori"></td>
9     </tr>
10    <tr><td colspan="2"><button type="submit" name="submit">Simpan</button></td></tr>
11 </table>
12 </form>
```

- ☑ Menampilkan nama kategori yang dipilih, ketika tombol edit diklik (membuat **function get_one** → **model_kategori.php**)

```
24 function get_one($id)
25 {
26     $param=array('kategori_id'=>$id);
27     return $this->db->get_where('kategori_barang',$param);
28 }
```

* **function get_one** → menampilkan 1 (satu) record

➤ **Bagaimana output yang dihasilkan ?**

- ☑ Menambahkan di **controllers** → **Kategori.php**

```
35 else
36 {
37     $id=$this->uri->segment(3);
38     $data['record']=$this->model_kategori->get_one($id)->row_array();
39     $this->load->view('kategori/form_edit',$data);
40 }
```

http://localhost/ci_pos/index.php/kategori/edit/3
uri seg_1 uri seg_2 uri seg_3

- ☑ Menambahkan **input** dan **value** → **form_edit.php**

```
➡ <input type="hidden" value="<?php echo $record['kategori_id']?>" name="id">
6 <table border="1">
7     <tr>
8         <td>Nama Kategori</td>
9         <td><input type="text" name="kategori" placeholder="kategori"
10             ➡ value="<?php echo $record['nama_kategori']?>">
11     </td>
12 </tr>
```

- ☑ Membuat model untuk proses simpan (membuat **function edit** → **model_kategori.php**) → bisa copy dari **function post**

```
15 function edit()
16 {
17     $data=array(
18         'nama_kategori'=>$this->input->post('kategori')
19     );
20     $this->db->where('kategori_id',$this->input->post('id'));
21     $this->db->update('kategori_barang',$data);
```

- ☑ Mengganti **post** menjadi **edit** pada “proses kategori” → **Kategori.php**

```
27 function edit()
28 {
29     if(isset($_POST['submit']))
30     {
31         //proses kategori
32         $this->model_kategori->edit();
33         redirect('kategori');
34     }
```

6) POS Kategori Hapus Data

- ☑ Membuat **function delete** di **controllers** → **Kategori.php**

```
42 function delete()
43 {
44     $id=$this->uri->segment(3);
45     $this->model_kategori->delete($id);
46     redirect('kategori');
47 }
```

- ☑ Membuat **function delete** di **models** → **model_kategori.php**

```
23 function delete($id)
24 {
25     $this->db->where('kategori_id',$id);
26     $this->db->delete('kategori_barang');
27 }
```

7) POS Barang Lihat Data

- ☑ Membuat file di controllers → Barang.php

```
1 <?php
2 class Barang extends CI_Controller
3 {
4     function index()
5     {
6         $this->load->view('barang/lihat_data');
7     }
8 }
9 ?>
```

- ☑ Membuat folder di views → barang, dengan nama file → lihat_data.php

```
1 <h3>Data Barang</h3>
2 <table border="1">
3     <tr>
4         <th>No</th>
5         <th>Nama Barang</th>
6         <th>Kategori Barang</th>
7         <th>Harga</th>
8         <th colspan="2">Operasi</th>
9     </tr>
10 </table>
```

- ☑ Menambahkan file di views → view_dashboard.php

```
1 <ul>
2     <li><?php echo anchor('Kategori','Kategori Barang'); ?></li>
3     <li><?php echo anchor('barang','Data Barang'); ?></li>
4     <li><?php echo anchor('','Laporan Transaksi'); ?></li>
5     <li><?php echo anchor('','Logout'); ?></li>
6 </ul>
```

- Sisipkan pada tabel barang (tabel barang berelasi dengan tabel kategori_barang)
- **Bagaimana output yang dihasilkan ?**

- ☑ Membuat file di models → model_barang.php

* Sebelumnya kita harus membuat SQL query pada tabel barang untuk menampilkan data

Run SQL query/queries on table ci_pos.barang: ⓘ

```
1 SELECT * b.barang_id,b.nama_barang,b.harga,kb.nama_kategori
2 FROM barang as b,kategori_barang as kb
3 WHERE b.kategori_id=kb.kategori_id
```

Columns

barang_id

kategori_id

nama_barang

harga

* Hasil SQL query tersebut di copy ke model_barang.php

```
1 <?php
2 class model_barang extends CI_Model
3 {
4     function tampil_data()
5     {
6         $query= "SELECT b.barang_id,b.nama_barang,b.harga,kb.nama_kategori
7                 FROM barang as b,kategori_barang as kb
8                 WHERE b.kategori_id=kb.kategori_id";
9         return $this->db->query($query);
10    }
11 }
12 ?>
```

} Hasil SQL query

- **Bagaimana output yang dihasilkan ?**

- ☑ Menambahkan file di controllers → Barang.php

```
1 <?php
2 class Barang extends CI_Controller
3 {
4     function __construct()
5     {
6         parent::__construct();
7         $this->load->model('model_barang');
8     }
9     function index()
10    {
11        { $data['record']=$this->model_barang->tampil_data()->result();
12        { $this->load->view('barang/lihat_data',$data);
13        }
14    }
15 ?>
```

- ☑ Menambahkan di views → folder barang → lihat_data.php (untuk melakukan looping)


```

10 <?php
11     $no=1;
12     foreach ($record as $r)
13     {
14         echo "<tr>
15             <td>$no</td>
16             <td>$r->nama_barang</td>
17             <td>$r->nama_kategori</td>
18             <td>$r->harga</td>
19             <td></td>
20             <td></td>
21         </tr>";
22         $no++;
23     }
24 ?>

```

- ☑ Menambahkan di **views** → folder **barang** → **lihat_data.php** (untuk membuat tombol operasi edit dan delete)

```

1 <h3>Data Barang</h3>
2 <?php
3 { echo anchor('barang/post', 'Tambah Data')
4 }
5 <table border="1">
6 <tr>
7 <th>No</th>
8 <th>Nama Barang</th>
9 <th>Kategori Barang</th>
10 <th>Harga</th>
11 <th colspan="2">Operasi</th>
12 </tr>
13 <?php
14     $no=1;
15     foreach ($record as $r)
16     {
17         echo "<tr>
18             <td>$no</td>
19             <td>$r->nama_barang</td>
20             <td>$r->nama_kategori</td>
21             <td>$r->harga</td>
22             <td>".anchor('barang/edit/'.$r->barang_id, 'Edit')."</td>
23             <td>".anchor('barang/delete/'.$r->barang_id, 'Delete')."</td>
24         </tr>";
25         $no++;
26     }
27 ?>
28 </table>

```

http://localhost/ci_pos/index.php/barang

➤ **Bagaimana output yang dihasilkan ?**

8) POS Barang Tambah Data

- ☑ Menambahkan **function post** di **controllers** → **Barang.php** (bisa copy dari controllers → Kategori.php)

```

14 function post()
15 {
16     if(isset($_POST['submit']))
17     {
18         //proses barang
19         $this->model_barang->post();
20         redirect('barang');
21     }
22     else
23     {
24         $this->load->view('barang/form_input');
25     }
26 }

```

- ☑ Membuat file di **views** folder **barang** → **form_input.php** (bisa copy dari controllers → *Kategori.php*)

```
1 <h3>Tambah Data Barang</h3>
2 <?php
3     echo form_open ('barang/post');
4 ?>
5 <table border="1">
6     <tr>
7         <td>Nama Barang</td>
8         <td><input type="text" name="nama_barang" placeholder="nama barang"></td>
9     </tr>
10    <tr><td>Kategori</td><td>
11        <select name="kategori">
12            <?php
13                foreach ($kategori as $k)
14                {
15                    echo "<option value='$k->kategori_id'$k->nama_kategori</option>";
16                }
17            ?>
18        </select>
19    </td></tr>
20    <tr>
21        <td>Harga</td>
22        <td><input type="text" name="harga" placeholder="harga"></td>
23    </tr>
24    <tr><td colspan="2"><button type="submit" name="submit">Simpan</button></td></tr>
25 </table>
26 </form>
```

Proses looping

- ☑ Me-load **model** di **controllers** → **Barang.php**

```
14 function post()
15 {
16     if(isset($_POST['submit']))
17     {
18         //proses barang
19         $this->model_barang->post();
20         redirect('barang');
21     }
22     else
23     {
24         $this->load->model('model_kategori');
25         $data['kategori']=$this->model_kategori->tampilkan_data()->result();
26         $this->load->view('barang/form_input',$data);
27     }
28 }
```

➤ *Bagaimana output yang dihasilkan ?*

- ☑ Menambahkan **function post** di **models** → **model_barang.php**

```
11 function post($data)
12 {
13     $this->db->insert('barang',$data);
14 }
```

- ☑ Mengganti proses barang pada **function post** di controllers → **Barang.php**

```
14 function post()
15 {
16     if(isset($_POST['submit']))
17     {
18         //proses barang
19         $nama      = $this->input->post('nama_barang');
20         $kategori   = $this->input->post('kategori');
21         $harga      = $this->input->post('harga');
22         $data       = array('nama_barang'=>$nama,
23                             'kategori_id'=>$kategori,
24                             'harga'=>$harga);
25         $this->model_barang->post($data);
26         redirect('barang');
27     }
28 }
```

http://localhost/ci_pos/index.php/barang/post

➤ *Bagaimana output yang dihasilkan ?*

9) POS Barang Edit Data

- ☑ Membuat file di **views** folder **barang** → **form_edit.php** (bisa copy dari **views** → **form_input.php**)

```
1 <h3>Edit Data Barang</h3>
2 <?php
3     echo form_open ('barang/edit');
4 ?>
5 <table border="1">
6     <tr>
7         <td>Nama Barang</td>
8         <td><input type="text" name="nama_barang" placeholder="nama barang"></td>
9     </tr>
10    <tr><td>Kategori</td><td>
11        <select name="kategori">
12            <?php
13                foreach ($kategori as $k)
14                {
15                    echo "<option value='$k->kategori_id'$k->nama_kategori</option>";
16                }
17            ?>
18        </select>
19    </td></tr>
20    <tr>
21        <td>Harga</td>
22        <td><input type="text" name="harga" placeholder="harga"></td>
23    </tr>
24    <tr><td colspan="2"><button type="submit" name="submit">Simpan</button></td></tr>
25 </table>
26 </form>
```

- ☑ Menambahkan **function edit** di **controllers** → **Barang.php** (bisa copy dari **function post** di **controllers** → **Barang.php**)

```
35 function edit()
36 {
37     if(isset($_POST['submit']))
38     {
39         //proses barang
40         $nama      = $this->input->post('nama_barang');
41         $kategori   = $this->input->post('kategori');
42         $harga      = $this->input->post('harga');
43         $data       = array('nama_barang'=>$nama,
44                             'kategori_id'=>$kategori,
45                             'harga'=>$harga);
46         $this->model_barang->post($data);
47         redirect('barang');
48     }
49     else
50     {
51         $this->load->model('model_kategori');
52         $data['kategori']=$this->model_kategori->tampilkan_data()->result();
53         $this->load->view('barang/form_edit',$data);
54     }
55 }
```

- ☑ Untuk menampilkan data yang akan di-edit, dengan menambahkan **function get_one** di **models** → **model_barang.php** (bisa copy **models** → **model_kategori.php**)

```
15 function get_one($id)
16 {
17     $param=array('barang_id'=>$id);
18     return $this->db->get_where('barang',$param);
19 }
```

- ☑ Menambahkan di **function edit** di **controllers** → **Barang.php**

```
51     else
52     {
53         ➡ $id=$this->uri->segment(3);
54         $this->load->model('model_kategori');
55         $data['kategori'] = $this->model_kategori->tampilkan_data()->result();
56         ➡ $data['record']   = $this->model_barang->get_one($id)->row_array();
57         $this->load->view('barang/form_edit',$data);
58     }
59 }
```

- ☑ Memberikan value di views → barang → form_edit.php

```
1 <h3>Edit Data Barang</h3>
2 <?php
3     echo form_open ('barang/edit');
4 ?>
5 <table border="1">
6     <tr>
7         <td>Nama Barang</td>
8         <td><input type="text" name="nama_barang" value="<?php echo $record['nama_barang']?>"
9             placeholder="nama barang"></td>
10    </tr>
11    <tr><td>Kategori</td><td>
12        <select name="kategori">
13            <?php
14                foreach ($kategori as $k)
15                {
16                    <echo "<option value='$k->kategori_id'";
17                    <echo $record['kategori_id']==$k->kategori_id? 'selected':'';
18                    <echo ">$k->nama_kategori</option>";
19                }
20            ?>
21        </select>
22    </td></tr>
23    <tr>
24        <td>Harga</td>
25        <td><input type="text" name="harga" value="<?php echo $record['harga']?>"
26            placeholder="harga"></td>
27    </tr>
28    <tr><td colspan="2"><button type="submit" name="submit">Simpan</button></td></tr>
29 </table>
30 </form>
```

- ☑ Membuat function edit di models → model_barang.php

```
20 function edit($data,$id)
21 {
22     $this->db->where('barang_id',$id);
23     $this->db->update('barang',$data);
24 }
```

- ☑ Mengganti nama method di function edit di controllers → Barang.php

`$this->model_barang->post($data);` → `$this->model_barang->edit($data);`

- ☑ Menambahkan di views → barang → form_edit.php

```
1 <h3>Edit Data Barang</h3>
2 <?php
3     echo form_open ('barang/edit');
4 ?>
5 <input type="hidden" name="id" value="<?php echo $record['barang_id']?>">
```

- ☑ Menambahkan di function edit pada proses barang di controllers → Barang.php

```
35 function edit()
36 {
37     if(isset($_POST['submit']))
38     {
39         //proses barang
40         $id = $this->input->post('id');
41         $nama = $this->input->post('nama_barang');
42         $kategori = $this->input->post('kategori');
43         $harga = $this->input->post('harga');
44         $data = array('nama_barang'=>$nama,
45                     'kategori_id'=>$kategori,
46                     'harga'=>$harga);
47         $this->model_barang->edit($data,$id);
48         redirect('barang');
```

http://localhost/ci_pos/index.php/barang/

➤ Bagaimana output yang dihasilkan ?

10) POS Barang Hapus Data

- ☑ Membuat function delete di controllers → Barang.php

```
59 function delete()
60 {
61     $id=$this->uri->segment(3);
62     $this->model_barang->delete($id);
63     redirect('barang');
64 }
```

- ☑ Membuat function delete di models → model_barang.php

```
25 function delete($id)
26 {
27     $this->db->where('barang_id',$id);
28     $this->db->delete('barang');
29 }
```

11) POS Operator Lihat Data dan Tambah Data

- Menambahkan file di **views** → **view_dashboard.php**

```
1 <ul>
2 <li><?php echo anchor('kategori','Kategori Barang'); ?></li>
3 <li><?php echo anchor('barang','Data Barang'); ?></li>
4 <li><?php echo anchor('operator','Operator Sistem'); ?></li>
5 <li><?php echo anchor('','Form Transaksi'); ?></li>
6 <li><?php echo anchor('','Laporan Transaksi'); ?></li>
7 <li><?php echo anchor('','Logout'); ?></li>
8 </ul>
```

- Membuat file di **controllers** → **Operator.php**

```
1 <?php
2 class Operator extends CI_Controller
3 {
4     function __construct()
5     {
6         parent::__construct();
7         $this->load->model('model_operator');
8     }
9     function index()
10    {
11        $data['record']=$this->model_operator->tampildata();
12        $this->load->view('operator/lihat_data',$data);
13    }
14 }
15 ?>
```

- Membuat folder di **views** → **operator**, dengan nama file → **lihat_data.php** (bisa copy dari folder kategori → *lihat_data.php*)

```
1 <h3>Data Operator</h3>
2 <?php
3     echo anchor('operator/post','Tambah Data')
4 ?>
5 <table border="1">
6     <tr><th>No</th><th>Nama Lengkap</th><th>Username</th><th>Login Terakhir</th>
7     <th colspan="2">Operasi</th></tr>
8     <?php
9     $no=1;
10    foreach ($record->result() as $r)
11    {
12        echo "<tr>
13            <td>$no</td>
14            <td>$r->nama_lengkap</td>
15            <td>$r->username</td>
16            <td>$r->last_login</td>
17            <td>".anchor('operator/edit/'.$r->operator_id,'Edit')."</td>
18            <td>".anchor('operator/delete/'.$r->operator_id,'Delete')."</td>
19        </tr>";
20        $no++;
21    }
22    ?>
23 </table>
```

- Menambahkan **function** **tampildata** di **models** → **model_operator.php**

```
16 function tampildata()
17 {
18     return $this->db->get('operator');
19 }
```

http://localhost/ci_pos/index.php/operator

➤ *Bagaimana output yang dihasilkan ?*

- Membuat file di **views** folder **operator** → **form_input.php** (untuk membuat tombol tambah data)

```
1 <h3>Tambah Data Operator</h3>
2 <?php
3     echo form_open ('operator/post');
4 ?>
5 <table border="1">
6     <tr>
7         <td>Nama Lengkap</td>
8         <td><input type="text" name="nama" placeholder="nama lengkap"></td>
9     </tr>
10    <tr>
11        <td>Username</td>
12        <td><input type="text" name="username" placeholder="username"></td>
13    </tr>
14    <tr>
15        <td>Password</td>
16        <td><input type="password" name="password" placeholder="password"></td>
17    </tr>
18    <tr><td colspan="2"><button type="submit" name="submit">Simpan</button></td></tr>
19 </table>
20 </form>
```

- ☑ Menambahkan **function post** di **controllers** → **Operator.php** (bisa copy dari function post di controllers → *Kategori.php*)

```
14 function post()
15 {
16     if(isset($_POST['submit']))
17     {
18         //proses operator
19         $this->model_operator->post();
20         redirect('operator');
21     }
22     else
23     {
24         $this->load->view('operator/form_input');
25     }
26 }
```

http://localhost/ci_pos/index.php/operator/post

➤ **Bagaimana output yang dihasilkan ?**

- ☑ Merubah proses operator, jika diklik **Simpan** → maka akan menampilkan data yang dimasukkan (dengan menggunakan operasi database langsung di controllers) di file **controllers** → **Operator.php**

```
14 function post()
15 {
16     if(isset($_POST['submit']))
17     {
18         //proses operator
19         $nama = $this->input->post('nama',true);
20         $username = $this->input->post('username',true);
21         $password = $this->input->post('password',true);
22         $data = array( 'nama_lengkap'=>$nama,
23                       'username'=>$username,
24                       'password'=>md5($password));
25         $this->db->insert('operator',$data);
26         redirect('operator');
27     }
```

- ☑ Mengaktifkan login terakhir dengan menambahkan update last_login di **function login** di **controllers** → **Auth.php**

```
10 function login()
11 {
12     if(isset($_POST['submit']))
13     {
14         //Proses Login
15         $username = $this->input->post('username');
16         $password = $this->input->post('password');
17         $hasil = $this->model_operator->login($username,$password);
18         if ($hasil==1)
19         {
20             //update last_login
21             $this->db->where('username',$username);
22             $this->db->update('operator',array('last_login'=>date('Y-m-d')));
23             $this->session->set_userdata(array('status_login' =>'oke' ));
24             redirect('dashboard');
25         }
```

http://localhost/ci_pos/index.php/Auth/login

➤ **Bagaimana output yang dihasilkan ?**

12) POS Operator Edit Data

- ☑ Membuat **function edit** di **controllers** → **Operator.php** (bisa copy dari controllers → *Kategori.php*)

```
33 function edit()
34 {
35     if(isset($_POST['submit']))
36     {
37         //proses operator
38         $this->model_operator->edit();
39         redirect('operator');
40     }
41     else
42     {
43         $id=$this->uri->segment(3);
44         $data['record']=$this->model_operator->get_one($id)->row_array();
45         $this->load->view('operator/form_edit',$data);
46     }
47 }
```

- ☑ Membuat **function get_one** di **models** → **model_operator.php** (bisa copy dari **models** → **model_kategori.php**)

```
21 function get_one($id)
22 {
23     $param=array('operator_id'=>$id);
24     return $this->db->get_where('operator',$param);
25 }
```

- ☑ Membuat file di **views** folder **operator** → **form_edit.php** (bisa copy dari **views** → **kategori** → **form_edit.php**)
 - * (untuk form bisa copy dari **views** → **operator** → **form_input.php**)
 - * (menampilkan data di text box yang tersedia, kecuali password tidak ditampilkan)

```
1 <h3>Edit Data Operator</h3>
2 <?php
3     echo form_open ('operator/edit');
4 ?>
5 <input type="hidden" value="<?php echo $record['operator_id']?>" name="id">
6 <table border="1">
7     <tr>
8         <td>Nama Lengkap</td>
9         <td><input type="text" name="nama" placeholder="nama lengkap"
10             value="<?php echo $record['nama_lengkap']?>"></td>
11     </tr>
12     <tr>
13         <td>Username</td>
14         <td><input type="text" name="username" placeholder="username"
15             value="<?php echo $record['username']?>"></td>
16     </tr>
17     <tr>
18         <td>Password</td>
19         <td><input type="password" name="password" placeholder="password"></td>
20     </tr>
21     <tr><td colspan="2"><button type="submit" name="submit">Simpan</button></td></tr>
22 </table>
23 </form>
```

http://localhost/ci_pos/index.php/operator/edit/1

➤ **Bagaimana output yang dihasilkan ?**

- ☑ Mengganti isi **function edit** di **controllers** → **Operator.php**

```
33 function edit()
34 {
35     if(isset($_POST['submit']))
36     {
37         //proses operator
38         $this->model_operator->edit(); ➡ Diganti dengan berikut ini :
39         redirect('operator');
40     }
```

```
33 function edit()
34 {
35     if(isset($_POST['submit']))
36     {
37         //proses operator
38         $id      = $this->input->post('id',true);
39         $nama     = $this->input->post('nama',true);
40         $username = $this->input->post('username',true);
41         $password = $this->input->post('password',true);
42         $data     = array( 'nama_lengkap'=>$nama,
43                           'username'=>$username);
44         $this->db->where('operator_id',$id);
45         $this->db->update('operator',$data);
46         redirect('operator');
47     }
```

http://localhost/ci_pos/index.php/operator/

➤ **Bagaimana output yang dihasilkan ?**

➤ **Bagaimana caranya jika password ada value-nya maka akan mengupdate-nya, namun jika dikosongkan maka password tersebut tidak bisa dirubah.**

- ☑ Menambahkan isi function edit di controllers → Operator.php

```

33 function edit()
34 {
35     if(isset($_POST['submit']))
36     {
37         //proses operator
38         $id = $this->input->post('id',true);
39         $nama = $this->input->post('nama',true);
40         $username = $this->input->post('username',true);
41         $password = $this->input->post('password',true);
42         if(empty($password))
43         {
44             $data = array( 'nama_lengkap'=>$nama,
45                           'username'=>$username);
46         }
47         else
48         {
49             $data = array( 'nama_lengkap'=>$nama,
50                           'username'=>$username,
51                           'password'=>md5($password));
52         }

```

13) POS Operator Hapus Data

- ☑ Membuat function delete di controllers → Operator.php (dengan menggunakan operasi database langsung di controllers)

```

64 function delete()
65 {
66     $id = $this->uri->segment(3);
67     $this->db->where('operator_id',$id);
68     $this->db->delete('operator');
69     redirect('operator');
70 }

```

14) POS Template 1 (Desain Menu Kategori Barang)

- ☑ CodeIgniter sudah menyediakan library sendiri untuk template-nya.
- ☑ **Template.php** dicopy-kan ke **ci_pos/application/libraries**
- ☑ Untuk desain menggunakan **bootstrap** → **getbootstrap.com** (bootstrap-3.3.7-dist)
- ☑ Membuat folder dengan nama **assets**, untuk menampung isi bootstrap
- ☑ Setting di **ci_pos/application/config/autoload**

```

1 <?php
2 defined('BASEPATH') OR exit('No direct script access allowed');
3
4 $autoload['packages'] = array();
5
6 $autoload['libraries'] = array('session','database','template');
7
8 $autoload['drivers'] = array();

```

- ☑ Membuat file di **views** → **template.php** (bisa copy dari getbootstrap.com/getting-started/#examples pilih **static top navbar**)
- ☑ Menggunakan template bootstrap function index di controllers → **Kategori.php**

```

1 <?php
2 class Kategori extends CI_Controller
3 {
4     function __construct()
5     {
6         parent::__construct();
7         $this->load->model('model_kategori');
8     }
9     function index()
10    {
11        $data['record']=$this->model_kategori->tampilkan_data();
12        // $this->load->view('kategori/lihat_data',$data);
13        $this->template->load('template','kategori/lihat_data',$data);
14    }

```

- ☑ Menambahkan isi file di **views** → **template.php**

```

13
14 <!-- Bootstrap core CSS -->
15 <link href="../dist/css/bootstrap.min.css" rel="stylesheet">
16

```

Ditambahkan seperti berikut :

```

13
14 <!-- Bootstrap core CSS -->
15 <link href="<?php echo base_url(); ?>assets/css/bootstrap.min.css" rel="stylesheet">
16

```


➤ **Bagaimana output yang dihasilkan ?**

- ☑ Mengaktifkan menu **Dropdown** → mendownload **jquery.min.js**, kemudian dicopy-kan ke **ci_pos/assets/js**
- ☑ Menambahkan isi file di **views** → **template.php**

```
93 <!-- Placed at the end of the document so the pages load faster -->
94 <script src="https://ajax.googleapis.com/ajax/libs/jquery/1.12.4/jquery.min.js"></script>
95 <script>window.jQuery || document.write('<script src="../../assets/js/vendor/jquery.min.js"></script>')</script>
96 <script src="../../dist/js/bootstrap.min.js"></script>
```

Ditambahkan seperti berikut :

```
93 <!-- Placed at the end of the document so the pages load faster -->
94 <script src="<?php echo base_url(); ?>assets/js/jquery.min.js"></script>
95 <script src="<?php echo base_url(); ?>assets/js/bootstrap.min.js"></script>
```

- ☑ Menampilkan data kategori, dengan menghapus isi **div class="container"**

```
76 <div class="container">
77
78 <!-- Main component for a primary marketing message or call to action -->
79 <div class="jumbotron">
80 <h1>Navbar example</h1>
81 <p>This example is a quick exercise to illustrate how the default, static and fixed to top
82 <p>To see the difference between static and fixed top navbars, just scroll.</p>
83 <p>
84 <a class="btn btn-lg btn-primary" href="../../components/#navbar" role="button">View navbar
85 </p>
86 </div>
87
88 </div> <!-- /container -->
```

Diganti seperti berikut :

```
76 <div class="container">
77
78 <?php echo $contents; ?>
79
80 </div> <!-- /container -->
```

- ☑ Merubah desain Kategori Barang di folder **kategori** di **views** → **lihat_data.php**

```
1 <h3>Kategori Barang</h3>
2 <?php
3     echo anchor('kategori/post','Tambah Data',array('class'=>'btn btn-danger btn-sm'))
4 ?>
5 <hr>
6 <table class="table table-bordered">
7     <tr><th>No</th><th>Nama Kategori</th><th colspan="2">Operasi</th></tr>
8     <?php
9         $no=1;
10        foreach ($record->result() as $r)
11        {
12            echo "<tr>
13                <td width='10'>$no</td>
14                <td>$r->nama_kategori</td>
15                <td width='10'>".anchor('kategori/edit/'.$r->kategori_id,'Edit')."</td>
16                <td width='10'>".anchor('kategori/delete/'.$r->kategori_id,'Delete')."</td>
17            </tr>";
18            $no++;
19        }
20    ?>
21 </table>
```

- ☑ Merubah nama-nama menu, di **views** → **template.php** (pada *Static navbar*)

```
36 <!-- Static navbar -->
37 <nav class="navbar navbar-default navbar-static-top">
38   <div class="container">
39     <div class="navbar-header">
40       <button type="button" class="navbar-toggle collapsed" data-toggle="collapse" data-target=
41         <span class="sr-only">Toggle navigation</span>
42         <span class="icon-bar"></span>
43         <span class="icon-bar"></span>
44         <span class="icon-bar"></span>
45       </button>
46       <a class="navbar-brand" href="#">Point Of Sales</a>
47     </div>
48     <div id="navbar" class="navbar-collapse collapse">
49       <ul class="nav navbar-nav">
50         <li class="active"><?php echo anchor('kategori', 'Kategori Barang');?></li>
51         <li><?php echo anchor('barang', 'Data Barang');?></li>
52         <li><?php echo anchor('operator', 'Operator Sistem');?></li>
53         <li class="dropdown">
54           <a href="#" class="dropdown-toggle" data-toggle="dropdown" role="button" aria-haspopu
55             <ul class="dropdown-menu">
56               <li><?php echo anchor('', 'Form Transaksi');?></li>
57               <li><?php echo anchor('', 'Laporan Transaksi');?></li>
58             </ul>
59           </li>
60         </ul>
61         <ul class="nav navbar-nav navbar-right">
62           <li class="active"><?php echo anchor('auth/logout', 'Logout');?></li>
63         </ul>
64       </div><!--/.nav-collapse -->
65     </div>
66   </nav>
```

➤ **Bagaimana output yang dihasilkan ?**

- ☑ Me-load Tambah Data Kategori Barang, **function post** di **controllers** → **Kategori.php**

```
15 function post()
16 {
17     if(isset($_POST['submit']))
18     {
19         //proses kategori
20         $this->model_kategori->post();
21         redirect('kategori');
22     }
23     else
24     {
25         // $this->load->view('kategori/form_input');
26         $this->template->load('template', 'kategori/form_input');
27     }
28 }
```

- ☑ Merubah desain Tambah Data Kategori Barang di **views** folder **kategori** → **form_input.php**

```
1 <h3>Tambah Data Kategori Barang</h3>
2 <?php
3     echo form_open ('kategori/post');
4 ?>
5 <table class="table table-bordered">
6     <tr>
7         <td width="130">Nama Kategori</td>
8         <td><div class="col-sm-4"><input type="text" name="kategori" class="form-control"
9             placeholder="kategori"></div></td>
10     </tr>
11     <tr><td colspan="2"><button type="submit" class="btn btn-primary btn-sm" name="submit">
12         Simpan</button>
13     <?php echo anchor('kategori', 'kembali', array('class'=>'btn btn-primary btn-sm'))?>
14     </td></tr>
15 </table>
16 </form>
```

➤ **Bagaimana output yang dihasilkan ?**

- ☑ Me-load Edit Data Kategori Barang, **function edit** di **controllers** → **Kategori.php**

```
29 function edit()
30 {
31     if(isset($_POST['submit']))
32     {
33         //proses kategori
34         $this->model_kategori->edit();
35         redirect('kategori');
36     }
37     else
38     {
39         $id=$this->uri->segment(3);
40         $data['record']=$this->model_kategori->get_one($id)->row_array();
41         // $this->load->view('kategori/form_edit', $data);
42         $this->template->load('template', 'kategori/form_edit', $data);
43     }
44 }
```

- ☑ Merubah desain Edit Data Kategori Barang di **views** folder **kategori** → **form_edit.php**

```

1 <h3>Edit Data Kategori Barang</h3>
2 <?php
3     echo form_open ('kategori/edit');
4 ?>
5 <input type="hidden" value="<?php echo $record['kategori_id']?>" name="id">
6 <table class="table table-bordered">
7     <tr>
8         <td width="130">Nama Kategori</td>
9         <td><div class="col-sm-4"><input type="text" name="kategori" placeholder="kategori"
10             value="<?php echo $record['nama_kategori']?>"></div>
11     </td>
12 </tr>
13 <tr><td colspan="2"><button type="submit" class="btn btn-primary btn-sm" name="submit">
14     Simpan</button>
15     <?php echo anchor('kategori', 'kembali', array('class'=>'btn btn-primary btn-sm'))?></td></tr>
16 </table>
17 </form>

```

➤ **Bagaimana output yang dihasilkan ?**

15) POS Template 2 (Desain Menu Data Barang)

- ☑ Me-load template bootstrap function **index** di **controllers** → **Barang.php** (sama seperti di **controllers** → **Kategori.php**)

```

9     function index()
10     {
11         $data['record']=$this->model_barang->tampil_data()->result();
12         // $this->load->view('barang/lihat_data',$data);
13         $this->template->load('template','barang/lihat_data',$data);
14     }

```

- ☑ Merubah desain Data Barang di folder **barang** di **views** → **lihat_data.php** (sama seperti di **views** folder **barang** → **lihat_data.php**)

```

1 <h3>Data Barang</h3>
2 <?php
3     echo anchor('barang/post','Tambah Data',array('class'=>'btn btn-danger btn-sm'))
4 ?>
5 <hr>
6 <table class="table table-bordered">
7     <tr>
8         <th>No</th>
9         <th>Nama Barang</th>
10        <th>Kategori Barang</th>
11        <th>Harga</th>
12        <th colspan="2">Operasi</th>
13    </tr>
14    <?php
15        $no=1;
16        foreach ($record as $r)
17        {
18            echo "<tr>
19                <td width='10'>$no</td>
20                <td>$r->nama_barang</td>
21                <td>$r->nama_kategori</td>
22                <td>$r->harga</td>
23                <td width='20'>".anchor('barang/edit/'.$r->barang_id,'Edit')."</td>
24                <td width='20'>".anchor('barang/delete/'.$r->barang_id,'Delete')."</td>
25            </tr>";
26            $no++;
27        }
28    ?>
29 </table>

```

- ☑ Me-load Tambah Data Barang, function **post** di **controllers** → **Barang.php** (sama seperti di **controllers** → **Kategori.php**)

```

15     function post()
16     {
17         if(isset($_POST['submit']))
18         {
19             //proses barang
20             $nama      = $this->input->post('nama_barang');
21             $kategori   = $this->input->post('kategori');
22             $harga      = $this->input->post('harga');
23             $data       = array('nama_barang'=>$nama,
24                               'kategori_id'=>$kategori,
25                               'harga'=>$harga);
26             $this->model_barang->post($data);
27             redirect('barang');
28         }
29         else
30         {
31             $this->load->model('model_kategori');
32             $data['kategori'] = $this->model_kategori->tampilkan_data()->result();
33             // $this->load->view('barang/form_input',$data);
34             $this->template->load('template','barang/form_input',$data);
35         }
36     }

```

- ☑ Merubah desain Tambah Data Barang di **views** folder **barang** → **form_input.php** (sama seperti di **views** folder **barang** → **lihat_data.php**)

```
1 <h3>Tambah Data Barang</h3>
2 <?php
3     echo form_open ('barang/post');
4 ?>
5 <table class="table table-bordered">
6     <tr>
7         <td width="130">Nama Barang</td>
8         <td><input type="text" name="nama_barang" class="form-control"
9             placeholder="nama barang"></td>
10    </tr>
11    <tr><td>Kategori</td><td>
12        <select name="kategori" class="form-control">
13            <?php
14                foreach ($kategori as $k)
15                {
16                    echo "<option value='$k->kategori_id'>$k->nama_kategori</option>";
17                }
18            ?>
19        </select>
20    </td></tr>
21    <tr>
22        <td width="130">Harga</td>
23        <td><input type="text" name="harga" class="form-control"
24            placeholder="harga"></td>
25    </tr><td colspan="2"><button type="submit" class="btn btn-primary btn-sm" name="submit">
26        Simpan</button>
27    <?php echo anchor('kategori','kembali',array('class'=>'btn btn-primary btn-sm'))?>
28    </td></tr>
29 </table>
30 </form>
```

➤ **Bagaimana output yang dihasilkan ?**

- ☑ Me-load Edit Data Barang, **function edit** di **controllers** → **Barang.php** (sama seperti di **controllers** → **Kategori.php**)

```
37 function edit()
38 {
39     if(isset($_POST['submit']))
40     {
41         //proses barang
42         $id      = $this->input->post('id');
43         $nama     = $this->input->post('nama_barang');
44         $kategori = $this->input->post('kategori');
45         $harga    = $this->input->post('harga');
46         $data     = array('nama_barang'=>$nama,
47             'kategori_id'=>$kategori,
48             'harga'=>$harga);
49         $this->model_barang->edit($data,$id);
50         redirect('barang');
51     }
52     else
53     {
54         $id=$this->uri->segment(3);
55         $this->load->model('model_kategori');
56         $data['kategori'] = $this->model_kategori->tampilkan_data()->result();
57         $data['record']   = $this->model_barang->get_one($id)->row_array();
58         // $this->load->view('barang/form_edit',$data);
59         $this->template->load('template','barang/form_edit',$data);
60     }
61 }
```

- ☑ Merubah desain Edit Data Barang di **views** folder **barang** → **form_edit.php** (sama seperti di **views** folder **barang** → **lihat_data.php**)

```

1 <h3>Edit Data Barang</h3>
2 <?php
3     echo form_open ('barang/edit');
4 ?>
5 <input type="hidden" name="id" value="<?php echo $record['barang_id']?>"
6 <table class="table table-bordered">
7     <tr>
8         <td width="130">Nama Barang</td>
9         <td><input type="text" name="nama_barang" value="<?php echo $record['nama_barang']?>"
10            class="form-control" placeholder="nama barang"></td>
11     </tr>
12     <tr><td width="130">Kategori</td><td>
13         <select name="kategori" class="form-control">
14             <?php
15                 foreach ($kategori as $k)
16                 {
17                     echo "<option value='$k->kategori_id'";
18                     echo $record['kategori_id']==$k->kategori_id? 'selected':'';
19                     echo ">$k->nama_kategori</option>";
20                 }
21             ?>
22         </select>
23     </td></tr>
24     <tr>
25         <td width="130">Harga</td>
26         <td><input type="text" name="harga" value="<?php echo $record['harga']?>"
27            class="form-control" placeholder="harga"></td>
28     </tr>
29     <tr><td colspan="2"><button type="submit" class="btn btn-primary btn-sm" name="submit">
30         Simpan</button>
31         <?php echo anchor('kategori','kembali',array('class'=>'btn btn-primary btn-sm'))?></td></tr>
32 </table>
33 </form>

```

➤ **Bagaimana output yang dihasilkan ?**

16) POS Template 2 (Desain Menu Operator Sistem)

- ☑ Me-load template bootstrap function index di **controllers** → **Operator.php** (sama seperti di **controllers** → **Kategori.php**)

```

9     function index()
10     {
11         $data['record']=$this->model_operator->tampildata();
12         // $this->load->view('operator/lihat_data',$data);
13         $this->template->load('template','operator/lihat_data',$data);
14     }

```

- ☑ Merubah desain Operator Sistem di folder **operator** di **views** → **lihat_data.php** (sama seperti di **views** folder **barang** → **lihat_data.php**)

```

1 <h3>Data Operator Sistem</h3>
2 <?php
3     echo anchor('operator/post','Tambah Data',array('class'=>'btn btn-danger btn-sm'))
4 ?>
5 <hr>
6 <table class="table table-bordered">
7     <tr><th>No</th><th>Nama Lengkap</th><th>Username</th><th>Login Terakhir</th>
8     <th colspan="2">Operasi</th></tr>
9     <?php
10         $no=1;
11         foreach ($record->result() as $r)
12         {
13             echo "<tr>
14                 <td width='10'>$no</td>
15                 <td>$r->nama_lengkap</td>
16                 <td>$r->username</td>
17                 <td>$r->last_login</td>
18                 <td width='20'>".anchor('operator/edit/'.$r->operator_id,'Edit')."</td>
19                 <td width='20'>".anchor('operator/delete/'.$r->operator_id,'Delete')."</td>
20             </tr>";
21             $no++;
22         }
23     ?>
24 </table>

```

- ☑ Me-load Tambah Operator Sistem, **function post** di **controllers** → **Operator.php** (sama seperti di **controllers** → **Kategori.php**)

```
15 function post()
16 {
17     if(isset($_POST['submit']))
18     {
19         //proses operator
20         $nama      = $this->input->post('nama',true);
21         $username   = $this->input->post('username',true);
22         $password   = $this->input->post('password',true);
23         $data       = array( 'nama_lengkap'=>$nama,
24                             'username'=>$username,
25                             'password'=>md5($password));
26         $this->db->insert('operator',$data);
27         redirect('operator');
28     }
29     else
30     {
31         // $this->load->view('operator/form_input');
32         $this->template->load('template','operator/form_input');
33     }
34 }
```

- ☑ Merubah desain Tambah Operator Sistem di **views** folder **operator** → **form_input.php** (sama seperti di **views** folder **barang** → **lihat_data.php**)

```
1 <h3>Tambah Data Operator</h3>
2 <?php
3     echo form_open ('operator/post');
4 ?>
5 <table class="table table-bordered">
6     <tr>
7         <td width="130">Nama Lengkap</td>
8         <td><input type="text" name="nama" class="form-control" placeholder="nama lengkap"></td>
9     </tr>
10    <tr>
11        <td width="130">Username</td>
12        <td><input type="text" name="username" class="form-control" placeholder="username"></td>
13    </tr>
14    <tr>
15        <td width="130">Password</td>
16        <td><div class="col-sm-4"><input type="password" name="password" class="form-control" .
17            placeholder="password"></div></td>
18    </tr>
19    <tr><td colspan="2"><button type="submit" class="btn btn-primary btn-sm" name="submit">
20        Simpan</button>
21    <?php echo anchor('operator','kembali',array('class'=>'btn btn-primary btn-sm'))?>
22    </td></tr>
23 </table>
24 </form>
```

➤ **Bagaimana output yang dihasilkan ?**

- ☑ Me-load Edit Operator Sistem, **function edit** di **controllers** → **Operator.php** (sama seperti di **controllers** → **Kategori.php**)

```
35 function edit()
36 {
37     if(isset($_POST['submit']))
38     {
39         //proses operator
40         $id      = $this->input->post('id',true);
41         $nama     = $this->input->post('nama',true);
42         $username  = $this->input->post('username',true);
43         $password  = $this->input->post('password',true);
44         if(empty($password))
45         {
46             $data = array( 'nama_lengkap'=>$nama,
47                             'username'=>$username);
48         }
49         else
50         {
51             $data = array( 'nama_lengkap'=>$nama,
52                             'username'=>$username,
53                             'password'=>md5($password));
54         }
55         $this->db->where('operator_id',$id);
56         $this->db->update('operator',$data);
57         redirect('operator');
58     }
59     else
60     {
61         $id=$this->uri->segment(3);
62         $data['record']=$this->model_operator->get_one($id)->row_array();
63         // $this->load->view('operator/form_edit',$data);
64         $this->template->load('template','operator/form_edit',$data);
65     }
66 }
```


- ☑ Merubah desain Edit Operator Sistem di **views** folder **operator** → **form_edit.php** (sama seperti di **views** folder **barang** → **lihat_data.php**)

```

1 <h3>Edit Data Operator</h3>
2 <?php
3     echo form_open ('operator/edit');
4 ?>
5 <input type="hidden" value="<?php echo $record['operator_id']?>" name="id">
6 <table class="table table-bordered">
7     <tr>
8         <td width="130">Nama Lengkap</td>
9         <td><input type="text" name="nama" class="form-control" placeholder="nama lengkap"
10            value="<?php echo $record['nama_lengkap']?>"></td>
11     </tr>
12     <tr>
13         <td width="130">Username</td>
14         <td><input type="text" name="username" class="form-control" placeholder="username"
15            value="<?php echo $record['username']?>"></td>
16     </tr>
17     <tr>
18         <td width="130">Password</td>
19         <td><input type="password" name="password" class="form-control" placeholder="password"></td>
20     </tr>
21     <tr><td colspan="2"><button type="submit" class="btn btn-primary btn-sm" name="submit">
22         Simpan</button>
23         <?php echo anchor('kategori','kembali',array('class'=>'btn btn-primary btn-sm'))?></td></tr>
24 </table>
25 </form>

```

➤ **Bagaimana output yang dihasilkan ?**

17) POS Template 3 (Desain Dashboard)

- ☑ Me-load template bootstrap function index di **controllers** → **Dasboard.php** (sama seperti di **controllers** → **Kategori.php**)

```

1 <?php
2 class Dashboard extends CI_Controller
3 {
4     function index()
5     {
6         // $this->load->view('view_dashboard');
7         $this->template->load('template','view_dashboard');
8     }
9 }
10 ?>

```

➤ **Bagaimana output yang dihasilkan ?**

18) POS Template 4 (Desain Login)

- ☑ Membuat desain untuk form login, di **views** → **template_login.php** (bisa copy dari **views** → **template.php**)
- ☑ Me-load template bootstrap function login di **controllers** → **Auth.php** (sama seperti di **controllers** → **Kategori.php**)

```

10 function login()
11 {
12     if(isset($_POST['submit']))
13     {
14         //Proses Login
15         $username = $this->input->post('username');
16         $password = $this->input->post('password');
17         $hasil = $this->model_operator->login($username,$password);
18         if ($hasil==1)
19         {
20             //update last_login
21             $this->db->where('username',$username);
22             $this->db->update('operator',array('last_login'=>date('Y-m-d')));
23             $this->session->set_userdata(array('status_login' =>'oke' ));
24             redirect('dashboard');
25         }
26         else
27         {
28             redirect('Auth/login');
29         }
30     }
31     else
32     {
33         // $this->load->view('form_login');
34         $this->template->load('template_login','form_login');
35     }
36 }

```

- ☑ Merubah desain form login di **views** → **form_login.php**

```
1 <?php
2     echo form_open ('Auth/login');
3 ?>
4 <table class="table table-bordered">
5     <tr><td>username</td><td><input type="text" name="username" class="form-control"
6         placeholder="username"></td></tr>
7     <tr><td>password</td><td><input type="password" name="password" class="form-control"
8         placeholder="password"></td></tr>
9     <tr><td colspan="2"><button type="submit" class="btn btn-default" name="submit">Login</button>
10    </td></tr>
11 </table>
12 </form>
```

- ☑ Menghilangkan nama-nama menu diatas, dengan menghapus coding yang tidak perlu di **views** → **template_login.php**

```
48 <div id="navbar" class="navbar-collapse collapse">
49     <ul class="nav navbar-nav">
50         <li class="active"><?php echo anchor('kategori','Kategori Barang');?></li>
51         <li><?php echo anchor('barang','Data Barang');?></li>
52         <li><?php echo anchor('operator','Operator Sistem');?></li>
53         <li class="dropdown">
54             <a href="#" class="dropdown-toggle" data-toggle="dropdown" role="button" aria-haspopup="true"
55                 ><ul class="dropdown-menu">
56                     <li><?php echo anchor('','Form Transaksi');?></li>
57                     <li><?php echo anchor('','Laporan Transaksi');?></li>
58                 </ul>
59             </li>
60     </ul>
61     <ul class="nav navbar-nav navbar-right">
62         <li class="active"><?php echo anchor('auth/logout','Logout');?></li>
63     </ul>
64 </div><!--/.nav-collapse -->
```

Dihapus menjadi seperti berikut :

```
48 <div id="navbar" class="navbar-collapse collapse">
49
50 </div><!--/.nav-collapse -->
```

- **Bagaimana output yang dihasilkan ?**