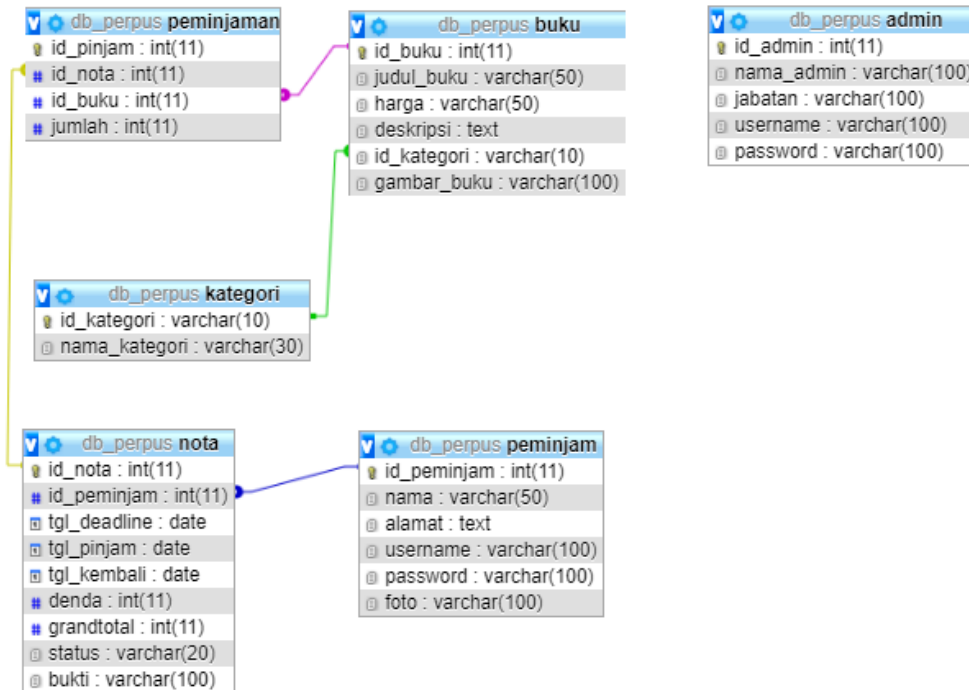


# TUTORIAL PEMBUATAN APLIKASI PERPUS

Bahan-bahan yang disiapkan :

- Xampp
- Framework Codeigniter
- Template admin\_lte 4.2.2
- Nama database db\_perpus, dan desain databasenya seperti dibawah ini:



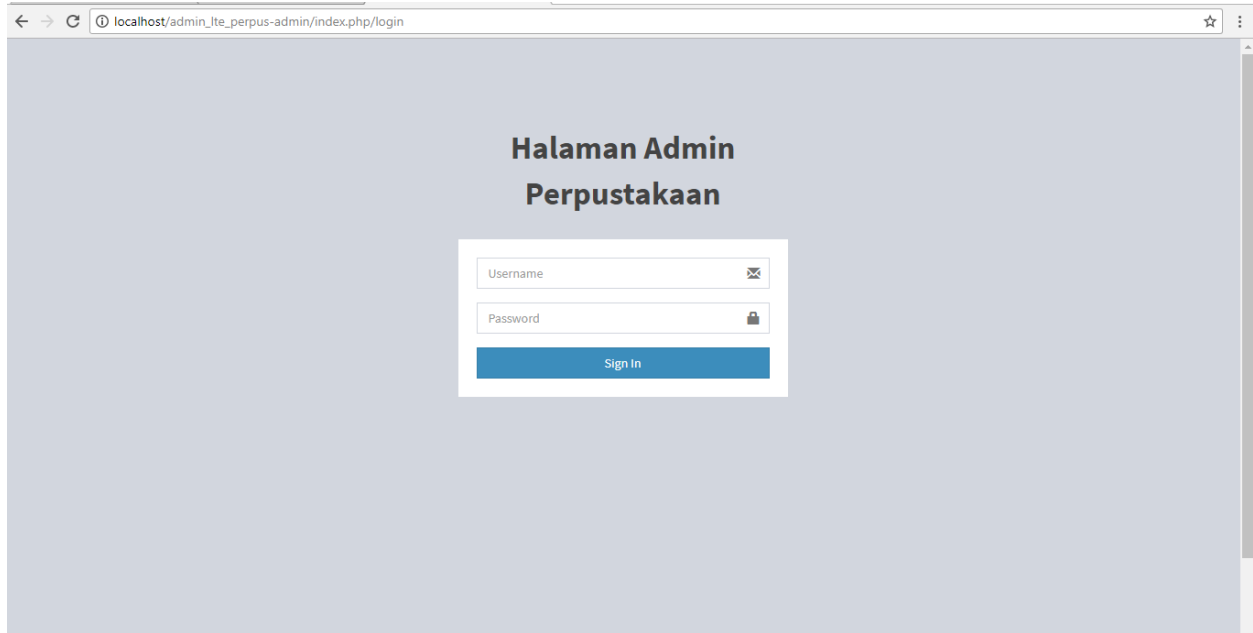
pertama yang harus diatur adalah :

- Pengaturan BASE\_URL di config/config.php  
Cari kata-kata base\_url tambahkan url dasar misal http://localhost/admin\_lte\_perpus-admin
- Pengaktifan function BASE\_URL di config/autoload.php  
Cari helper tambahkan 'url'
- di routes.php, tentukan controller utama yang akan di buka ketika meload url dasar
- Pengaturan koneksi database di config/database.php  
Atur host, user, password dan nama databasenya
- Pengaktifan function database di config/autoload.php  
Cari libraries tambahkan 'database'
- Pengaktifan form\_validation di config/autoload.php  
Cari libraries tambahkan 'form\_validation'  
Gunanya untuk membuat validasi input
- Pengaktifan session di config/autoload.php  
Cari libraries tambahkan 'session'  
Gunanya untuk membuat halaman login dan menampilkan pesan flash\_data

- Pengaktifan cart di config/autoload.php  
Cari libraries tambahkan 'cart'  
Gunanya untuk menyimpan sementara item-item yang dipesan

## A. Membuat halaman LOGIN

Cara menampilkan halaman login



Controller login.php function index

```
15     public function index()  
16     {  
17         $this->load->view('login');  
18     }
```

Views login.php

```

39 <div class='alert alert-success' id="msg" style="display:none"></div>
40
41
42 <form action="#" id="signin" method="post">
43   <div class="form-group has-feedback">
44     <input type="text" name="username" class="form-control" placeholder="Username">
45     <span class="glyphicon glyphicon-envelope form-control-feedback"></span>
46   </div>
47   <div class="form-group has-feedback">
48     <input type="password" name="password" class="form-control" placeholder="Password">
49     <span class="glyphicon glyphicon-lock form-control-feedback"></span>
50   </div>
51   <div class="row">
52
53     <!-- /.col -->
54     <div class="col-xs-12">
55       <input type="hidden" name="login" value="1">
56       <input name="login1" type="button" id="login" class="btn btn-primary btn-block
57         btn-flat" value="Sign In">
58     </div>
59     <!-- /.col -->
60   </div>
61 </form>

```

jika diklik sign in, maka memproses Script yang ada di views login.php . berikut scriptnya:

```

login.php — controllers x login.php — views x
84 </ntml>
85 <script>
86     $(document).ready(function(){
87     $("#login").click(function(){
88         var data = $('#signin').serialize();
89         $("#msg").html("Memeriksa Data Login ...");
90         $.ajax({
91             url:"<?= base_url()>index.php/login/proses_login",
92             type:"POST",
93             dataType:"json",
94             data:data,
95             cache:false,
96             success:function(dt){
97                 if(dt.status==1){
98                     $("#msg").show('fade');
99                     $("#msg").html(dt.keterangan);
100                     setTimeout(function() {
101                         window.location.href="<?=base_url()>index.php/admin";
102                     }, 2000);
103                 } else {
104                     $("#msg").show('fade');
105                     $("#msg").html(dt.keterangan);
106                     setTimeout(function() {
107                         $("#msg").hide('fade');
108                     }, 2000);
109                 }
110             }
111         });
112     });
113 });
114 </script>

```

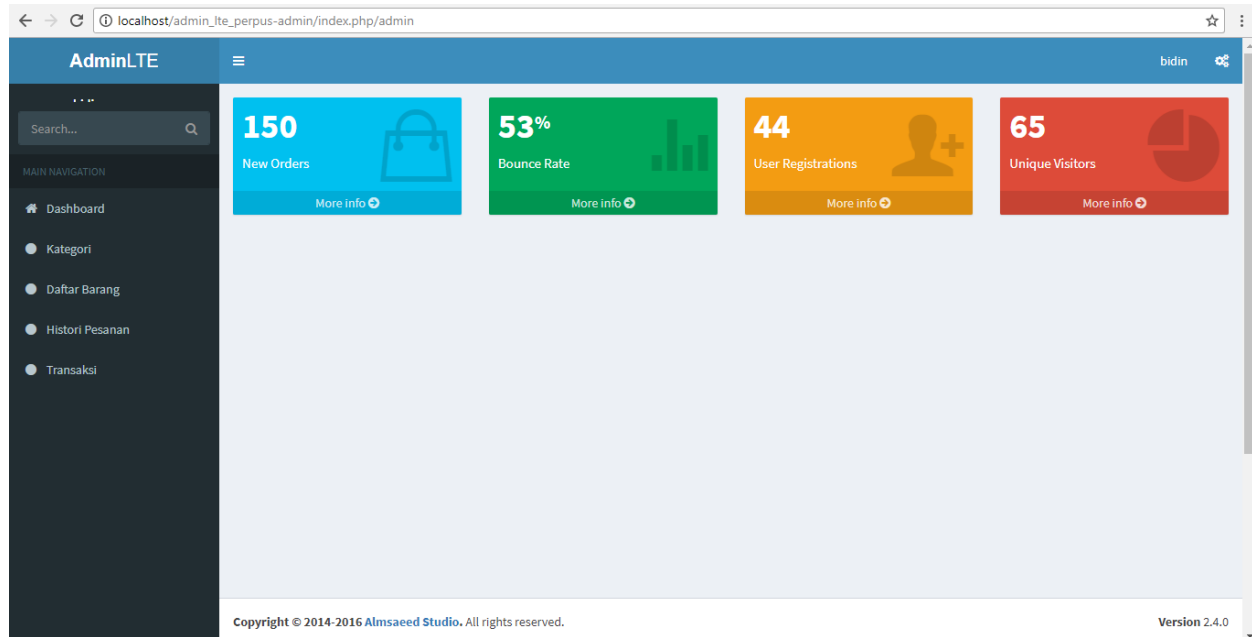
Controller login.php function proses\_login

```

login.php — controllers x login.php — views x
20
21 public function proses_login()
22 {
23     if($this->input->post('login')){
24         $this->form_validation->set_rules('username', 'Username', 'trim|required');
25         $this->form_validation->set_rules('password', 'Password', 'trim|required');
26         if ($this->form_validation->run() == TRUE) {
27             if($this->m_user->get_login()->num_rows()>0){
28                 $data=$this->m_user->get_login()->row();
29                 $array = array(
30                     'login_admin' => TRUE,
31                     'nama_lengkap'=>$data->nama_admin,
32                     'username'=>$data->username,
33                     'password'=>$data->password,
34                     'id_peminjam'=>$data->id_admin,
35                     'jabatan'=>$data->jabatan );
36                 $this->session->set_userdata( $array );
37                 $data1['status']=1;
38                 $data1['keterangan']="Anda Sukses Login";
39                 echo json_encode($data1);
40             } else {
41                 $data1['status']=0;
42                 $data1['keterangan']="username dan password salah";
43                 echo json_encode($data1);
44             }
45         } else {
46             $data1['status']=0;
47             $data1['keterangan']=validation_errors();
48             echo json_encode($data1);
49         }
50     }
51 }

```

## B. Menampilkan halaman dashboard (controller admin)



### Controller admin.php function index

```
13     public function index()  
14     {  
15         $data['konten']="home";  
16         $data['judul']="DashboardKu";  
17         $this->load->view('template', $data);  
18     }
```

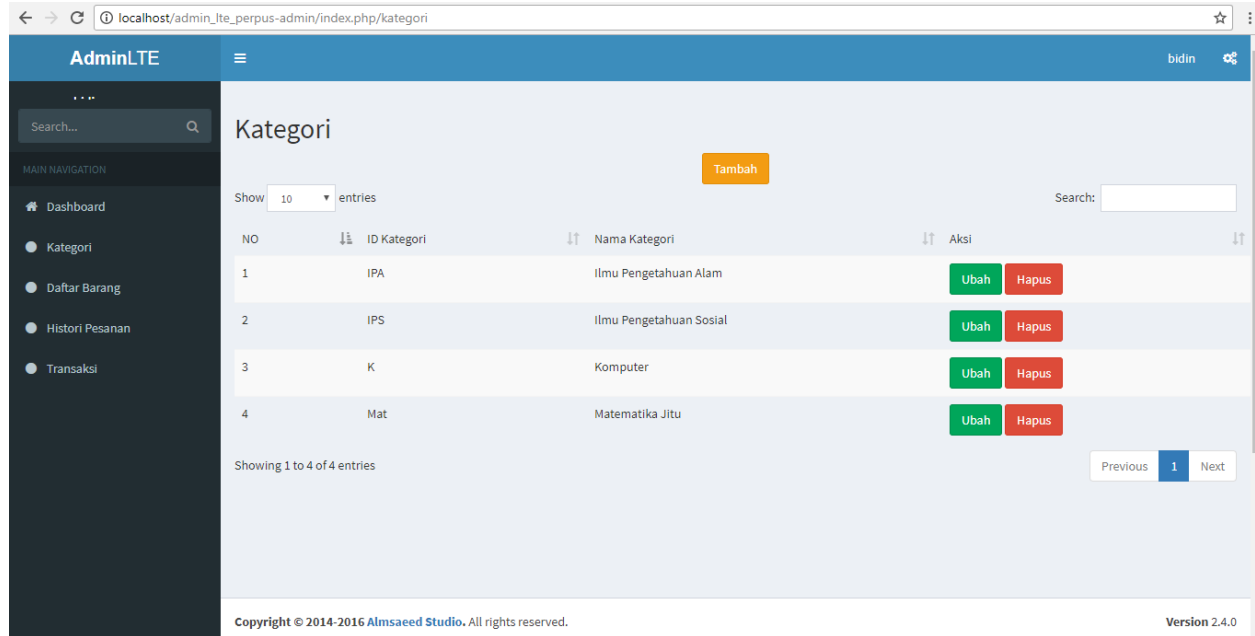
Notes: template.php di view sebagai desain tetap.

Home adalah file home.php di view sebagai desain tidak tetap.

### Cuplikan script template

Note: Perhatikan \$judul dan \$konten. Variable itu memanggil variabel yang berasal dari kontroller admin.php function index.

### C. Menampilkan halaman kategori



## Controller kategori function index

```

1 <?php
2 defined('BASEPATH') OR exit('No direct script access allowed');
3
4 class Kategori extends CI_Controller {
5     public function __construct()
6     {
7         parent::__construct();
8
9         $this->load->model('m_kategori', 'kat');
10    }
11    public function index()
12    {
13        $data['tampil_kategori']=$this->kat->tampil_kat();
14        $data['konten']="v_kategori";
15        $data['judul']="Kategori";
16        $this->load->view('template', $data);
17    }

```

**Notes:** perhatikan pada script construct, kita akan panggil load model m\_kategori untuk mengakses database. Dan diletakkan di constuct agar model m\_kategori bisa di load oleh semua function. Jadi tidak perlu mengkodekan ulang model nya di setiap function. Cukup di construct. Di load model kita beri 2 parameter yaitu nama modelnya 'm\_kategori' dan penamaannya yaitu 'kat'.

## Model m\_kategori.php function tampil\_kat



```

6      public function tampil_kat()
7      {
8          $tm_kategori=$this->db
9              ->get('kategori')->result();
10         return $tm_kategori;
11     }

```

Views v\_kategori.php

```

1 <h2>Kategori</h2>
2 <?=$this->session->flashdata('pesan');?>
3 <center><a href="#tambah" data-toggle="modal" class="btn btn-warning">Tambah</a></center>
4 <table id="example" class="table table-hover table-striped">
5     <thead>
6         <tr>
7             <td>NO</td><td>ID Kategori</td><td>Nama Kategori</td><td>Aksi</td>
8         </tr>
9     </thead>
10    <tbody>
11        <?php $no=0;foreach ($tampil_kategori as $kat):
12            $no++;?>
13            <tr>
14                <td><?=$no></td><td><?=$kat->id_kategori?></td><td><?=$kat->nama_kategori?></td><td><a href="#edit"
15                    onclick="edit('<?=$kat->id_kategori?>')" data-toggle="modal" class="btn btn-success">Ubah</a> <a href="<?=$
16                    base_url('index.php/kategori/hapus/' . $kat->id_kategori)?" onclick="return confirm('Apakah Anda Yakin?')
17                    " class="btn btn-danger">Hapus</a></td>
18            </tr>
19        <?php endforeach ?>
20    </tbody>
21 </table>

```

Script jquery untuk menampilkan fitur tambahan dataTable seperti input search, pagination, filter dan lain2.

Script ini diletakkan di v\_kategori.php. di tabel harus diberi id agar bisa dipanggil di jquery. Disini id=example.

```

73 <script type="text/javascript">
74     $(document).ready(function(){
75         $('#example').DataTable();
76     });
77 </script>

```

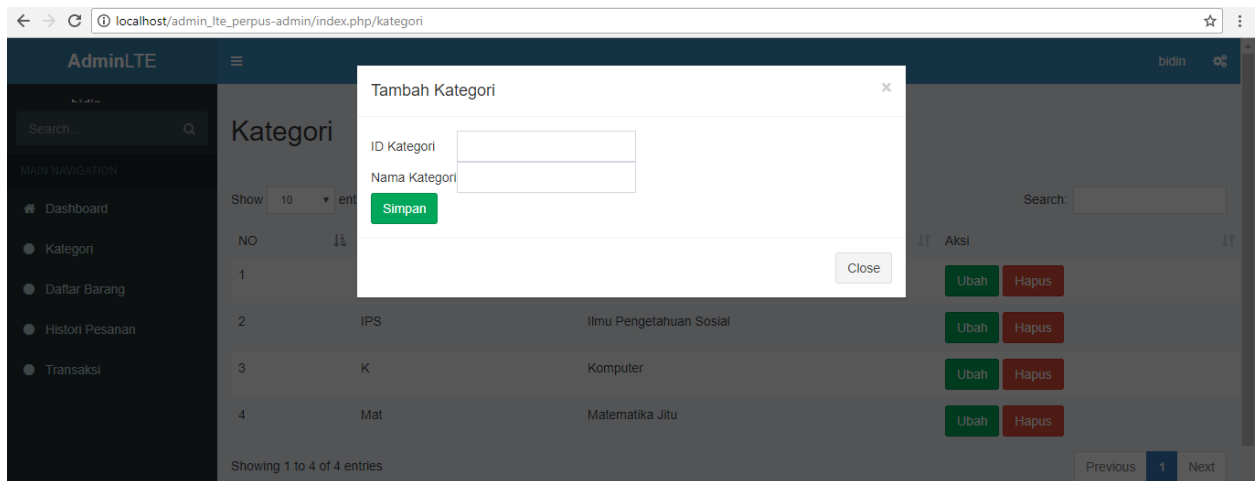
Jgn lupa untuk menambahkan load css dan jquery seperti dibawah ini:

```

43
44 <script src="<?=base_url()>asset/bower_components/jquery/dist/jquery.min.js"></script>
45 <script type="text/javascript" src="<?=base_url()>asset/bower_components/datatables.net/js/
jquery.dataTables.min.js"></script>
46 <script type="text/javascript" src="<?=base_url()>asset/bower_components/datatables.net-bs/js/
dataTables.bootstrap.min.js"></script>
47
48 </head>
49
50
51 <body class="hold-transition skin-blue sidebar-mini">

```

## D. Membuat tambah kategori



perhatikan tombol tambah kategori di view `v_kategori.php` pada baris 3. Tombol ini memanggil popup atau modal bootstrap.

```

1 <h2>Kategori</h2>
2 <?= $this->session->flashdata('pesan');?>
3 <center><a href="#tambah" data-toggle="modal" class="btn btn-warning">Tambah</a></center>
4 <table id="example" class="table table-hover table-striped">
5 <thead>
6 <tr>
7 <td>NO</td><td>ID Kategori</td><td>Nama Kategori</td><td>Aksi</td>
8 </tr>
9 </thead>
10 <tbody>
11 <?php $no=0;foreach ($tampil_kategori as $kat):
12 $no++;?>
13 <tr>
14 <td><?=$no></td><td><?=$kat->id_kategori?></td><td><?=$kat->nama_kategori?></td><td><a href="#edit"
onclick="edit('<?=$kat->id_kategori?>')" data-toggle="modal" class="btn btn-success">Ubah</a> <a href="<?=
base_url('index.php/kategori/hapus/'. $kat->id_kategori)?>" onclick="return confirm('Apakah Anda Yakin?')"
class="btn btn-danger">Hapus</a></td>
15 </tr>
16 <?php endforeach ?>
17
18 </tbody>
19 </table>

```

Script modal untuk tambah kategori di view `v_kategori.php` dengan id=tambah

```

19 </table>
20 <div class="modal fade" id="tambah">
21   <div class="modal-dialog">
22     <div class="modal-content">
23       <div class="modal-header">
24         <button type="button" class="close" data-dismiss="modal"><span aria-hidden="true">&times;</span><span
25           class="sr-only">Close</span></button>
26         <h4 class="modal-title">Tambah Kategori</h4>
27       </div>
28       <div class="modal-body">
29         <form action="php=base_url('index.php/kategori/tambah')?" method="post">
30           <table>
31             <tr>
32               <td>ID Kategori</td><td><input type="text" name="id_kategori" required class="form-control"></td>
33             </tr>
34             <tr>
35               <td>Nama Kategori</td><td><input type="text" name="nama_kategori" required class="form-control"></td>
36             </tr>
37           </table>
38           <input type="submit" name="simpan" value="Simpan" class="btn btn-success">
39         </form>
40       </div>
41       <div class="modal-footer">
42         <button type="button" class="btn btn-default" data-dismiss="modal">Close</button>
43       </div><!-- /.modal-content -->
44     </div><!-- /.modal-dialog -->
45   </div><!-- /.modal -->

```

Script proses tambah kategori, controller kategori function tambah

```

23 public function tambah()
24 {
25     if($this->input->post('simpan')){
26         if($this->kat->simpan_kat()){
27             $this->session->set_flashdata('pesan', 'Menambah Kategori');
28             redirect('kategori','refresh');
29         } else {
30             $this->session->set_flashdata('pesan', 'Gagal Menambah Kategori');
31             redirect('kategori','refresh');
32         }
33     }
34 }

```

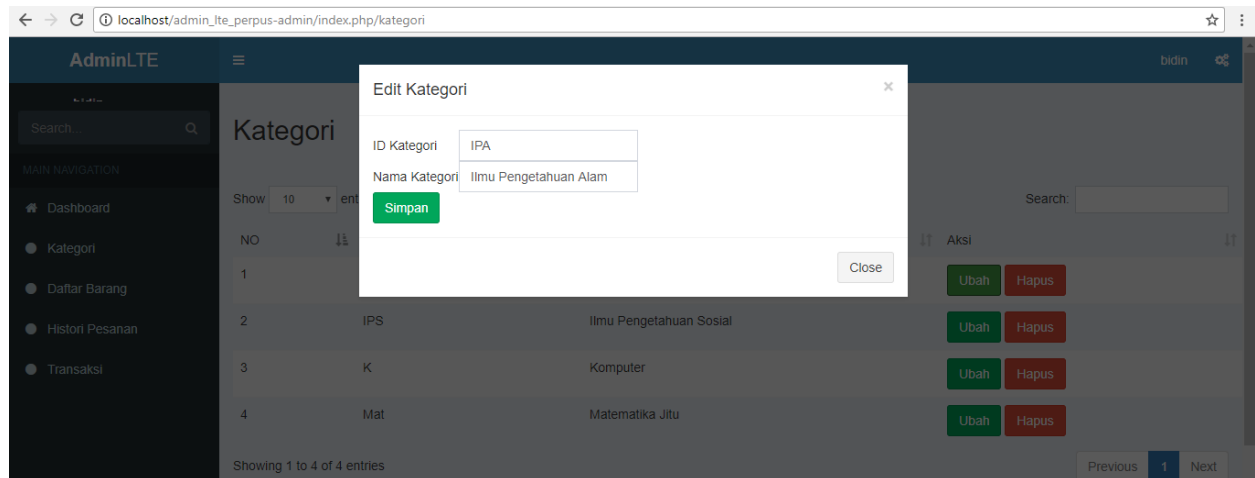
Script model m\_kategori function simpan\_kat

```

18 public function simpan_kat(){
19     $object=array(
20         'id_kategori'=>$this->input->post('id_kategori'),
21         'nama_kategori'=>$this->input->post('nama_kategori'),
22     );
23     return $this->db->insert('kategori', $object);
24 }

```

## E. Mengupdate data kategori



perhatikan tombol Ubah di view `v_kategori.php` pada baris 14. Tombol ini memanggil popup atau modal bootstrap. Untuk menampilkan detail kategorinya menggunakan jquery. Yaitu menggunakan `onclick="edit(nilai parameter)"`.

```

1 <h2>Kategori</h2>
2 <?= $this->session->flashdata('pesan');?>
3 <center><a href="#tambah" data-toggle="modal" class="btn btn-warning">Tambah</a></center>
4 <table id="example" class="table table-hover table-striped">
5   <thead>
6     <tr>
7       <td>NO</td><td>ID Kategori</td><td>Nama Kategori</td><td>Aksi</td>
8     </tr>
9   </thead>
10  <tbody>
11    <?php $no=0;foreach ($tampil_kategori as $kat):
12      $no++;?>
13      <tr>
14        <td><?=$no?></td><td><?=$kat->id_kategori?></td><td><?=$kat->nama_kategori?></td><td><a href="#edit"
15          onclick="edit('<?=$kat->id_kategori?>')" data-toggle="modal" class="btn btn-success">Ubah</a> <a href="<?=$
16          base_url('index.php/kategori/hapus/' . $kat->id_kategori)?" onclick="return confirm('Apakah Anda Yakin?')
17          " class="btn btn-danger">Hapus</a></td>
18      </tr>
19    <?php endforeach ?>
20  </tbody>
21 </table>

```

Script popup modal bootstrap dengan id=edit

```

45 </div><!-- /.modal -->
46
47 <div class="modal fade" id="edit">
48   <div class="modal-dialog">
49     <div class="modal-content">
50       <div class="modal-header">
51         <button type="button" class="close" data-dismiss="modal"><span aria-hidden="true">&times;</span><span
52           class="sr-only">Close</span></button>
53         <h4 class="modal-title">Edit Kategori</h4>
54       </div>
55       <div class="modal-body">
56         <form action="?=base_url('index.php/kategori/kategori_update')?>" method="post">
57           <input type="hidden" name="id_kategori_lama" id="id_kategori_lama">
58           <table>
59             <tr>
60               <td>ID Kategori</td><td><input type="text" name="id_kategori" id="id_kategori" required class="
61                 form-control"></td>
62             </tr>
63             <tr>
64               <td>Nama Kategori</td><td><input type="text" id="nama_kategori" name="nama_kategori" required class="
65                 form-control"></td>
66             </tr>
67           </table>
68           <input type="submit" name="edit" value="Simpan" class="btn btn-success">
69         </form>
70       </div>
71       <div class="modal-footer">
72         <button type="button" class="btn btn-default" data-dismiss="modal">Close</button></div>
73     </div><!-- /.modal-content -->
74   </div><!-- /.modal-dialog -->
75 </div><!-- /.modal -->

```

Notes: perhatikan gambar diatas. Setiap inputan diharus diberi id. Agar bisa dipanggil oleh script jquery.

Script jquery untuk menampilkan detail kategori di setiap input modal. Yaitu function jquery edit(nilai parameter) di v\_kategori.php

```

79 <script type="text/javascript">
80   function edit(a){
81     $.ajax({
82       type:"post",
83       url:"<?=base_url()>index.php/kategori/edit_kategori/" +a,
84       dataType:"json",
85       success:function(data){
86         $("#id_kategori").val(data.id_kategori);
87         $("#nama_kategori").val(data.nama_kategori);
88         $("#id_kategori_lama").val(data.id_kategori);
89       }
90     });
91   }
92 </script>

```

Script php untuk menampilkan detail kategori yaitu di controller kategori function edit\_kategori

```
18     public function edit_kategori($id)
19     {
20         $data=$this->kat->detail($id);
21         echo json_encode($data);
22     }
```

Script model detail kategori yang ada di file model m\_kategori function detail

```
12     public function detail($a)
13     {
14         return $this->db->where('id_kategori',$a)
15             ->get('kategori')
16             ->row();
17     }
```

Script proses update kategori di controller kategori function kategori\_update

```
45     public function kategori_update()
46     {
47         if($this->input->post('edit')){
48             if($this->kat->edit_kat()){
49                 $this->session->set_flashdata('pesan', 'Sukses Hapus Kategori');
50                 redirect('kategori','refresh');
51             } else {
52                 $this->session->set_flashdata('pesan', 'Gagal Hapus Kategori');
53                 redirect('kategori','refresh');
54             }
55         }
56     }
```

Script model update kategori di file model m\_kategori function edit\_kat

```
29     public function edit_kat()
30     {
31         $object=array(
32             'id_kategori'=>$this->input->post('id_kategori'),
33             'nama_kategori'=>$this->input->post('nama_kategori')
34         );
35         return $this->db->where('id_kategori',$this->input->post('id_kategori_lama'))->update('kategori', $object);
36     }
37 }
```

## F. Membuat Proses Hapus Kategori

The screenshot shows the AdminLTE interface with a sidebar menu containing 'Dashboard', 'Kategori', 'Daftar Barang', 'Histori Pesanan', and 'Transaksi'. The main content area is titled 'Kategori' and includes a 'Tambah' (Add) button. A table lists the categories with columns for 'NO', 'ID Kategori', 'Nama Kategori', and 'Aksi'. The 'Aksi' column contains 'Ubah' and 'Hapus' buttons. A modal dialog is open, asking for confirmation to delete a category.

NO	ID Kategori	Nama Kategori	Aksi
1	IPA	Ilmu Pengetahuan Alam	Ubah Hapus
2	IPS	Ilmu Pengetahuan Sosial	Ubah Hapus
3	K	Komputer	Ubah Hapus
4	Mat	Matematika Jitu	Ubah Hapus

perhatikan tombol Hapus di view v\_kategori.php pada baris 14 pada gambar dibawah ini.

```

1 <h2>Kategori</h2>
2 <?= $this->session->flashdata('pesan');?>
3 <center><a href="#tambah" data-toggle="modal" class="btn btn-warning">Tambah</a></center>
4 <table id="example" class="table table-hover table-striped">
5   <thead>
6     <tr>
7       <td>NO</td><td>ID Kategori</td><td>Nama Kategori</td><td>Aksi</td>
8     </tr>
9   </thead>
10  <tbody>
11    <?php $no=0;foreach ($tampil_kategori as $kat):
12      $no++;?>
13    <tr>
14      <td><?=$no?></td><td><?=$kat->id_kategori?></td><td><?=$kat->nama_kategori?></td><td><a href="#edit"
15        onclick="edit('<?=$kat->id_kategori?>')" data-toggle="modal" class="btn btn-success">Ubah</a> <a href="<?=$
16        base_url('index.php/kategori/hapus/'. $kat->id_kategori)?>" onclick="return confirm('Apakah Anda Yakin?')
17        " class="btn btn-danger">Hapus</a></td>
18    </tr>
19    <?php endforeach ?>
20  </tbody>
21 </table>

```

Script hapus kategori di controller kategori function hapus

```

35 public function hapus($id='')
36 {
37     if($this->kat->hapus_kat($id)){
38         $this->session->set_flashdata('pesan', 'Sukses Hapus Kategori');
39         redirect('kategori','refresh');
40     } else {
41         $this->session->set_flashdata('pesan', 'Gagal Hapus Kategori');
42         redirect('kategori','refresh');
43     }
44 }

```

Script model hapus kategori di file model m\_kategori function hapus\_kat

```

25 public function hapus_kat($id='')
26 {
27     return $this->db->where('id_kategori',$id)->delete('kategori');
28 }

```



## G. Membuat Halaman Daftar Buku

AdminLTE

Daftar Buku Perpustakaan

Tambah

Show 10 entries

Search:

NO	Gambar	Nama Buku	Kategori	Harga	Aksi
1		mencari teman dengan mudah	Ilmu Pengetahuan Sosial	2500	<a href="#">Ubah</a> <a href="#">Hapus</a>
2		cara mudah membuat komputer sebijl kacang	Komputer	5000	<a href="#">Ubah</a> <a href="#">Hapus</a>
3		gudang baru joss	Komputer	300000	<a href="#">Ubah</a> <a href="#">Hapus</a>

Showing 1 to 3 of 3 entries

Previous 1 Next

### Controller buku function index

```
6 public function __construct()
7 {
8     parent::__construct();
9     if($this->session->userdata('login_admin')!=TRUE){
10     redirect('login','refresh');
11     }
12
13     $this->load->model('m_buku','buku');
14 }
15 public function index()
16 {
17     $data['tampil_buku']=$this->buku->tampil_buku();
18     $data['kategori']=$this->buku->data_kategori();
19     $data['konten']="buku";
20     $data['judul']="Daftar Buku";
21     $this->load->view('template', $data);
22 }
```

### Model m\_buku function tampil\_buku

```
6 public function tampil_buku()
7 {
8     $tm_buku=$this->db
9     ->join('kategori','kategori.id_kategori=buku.id_kategori')
10     ->get('buku')->result();
11     return $tm_buku;
12 }
```

### Model m\_buku function data\_kategori

```

23     public function data_kategori()
24     {
25         return $this->db->get('kategori')->result();
26     }

```

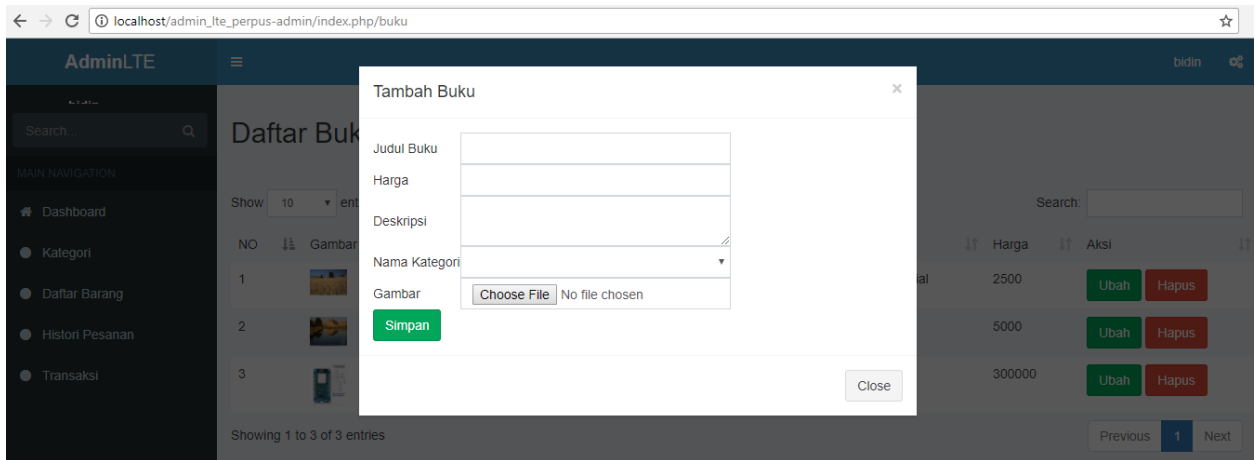
## View buku.php

```

login.php — controllers  x  login.php — views  x  template.php  •  buku.php  x
1  <h2>Daftar Buku Perpustakaan</h2>
2  <?= $this->session->flashdata('pesan');?>
3  <center><a href="#tambah" data-toggle="modal" class="btn btn-warning">Tambah</a></center>
4  <table id="example" class="table table-hover table-striped">
5      <thead>
6          <tr>
7              <td>NO</td><td>Gambar</td><td>Nama Buku</td><td>Kategori</td><td>Harga</td><td>Aksi</td>
8          </tr>
9      </thead>
10     <tbody>
11         <?php $no=0;foreach ($tampil_buku as $buku):
12             $no++;?>
13         <tr>
14             <td><?=$no?></td><td></td>
15             <td><?=$buku->judul_buku?></td><td><?=$buku->nama_kategori?></td><td><?=$buku->harga?></td><td><a href
16             ="#edit" onclick="edit(<?=$buku->id_buku?>)" data-toggle="modal" class="btn btn-success">Ubah</a> <a href
17             ="<?=base_url('index.php/buku/hapus/'.$buku->id_buku)?" onclick="return confirm('Apakah Anda Yakin?')"
18             class="btn btn-danger">Hapus</a></td>
19         </tr>
20     </tbody>
21 </table>

```

## H. Membuat Tambah Buku



perhatikan gambar dibawah ini, tombol “tambah” di view buku.php pada baris 3. Tombol ini memanggil popup atau modal bootstrap.

```
login.php — controllers x login.php — views x template.php buku.php x
1 <h2>Daftar Buku Perpustakaan</h2>
2 <?=$this->session->flashdata('pesan');?>
3 <center><a href="#tambah" data-toggle="modal" class="btn btn-warning">Tambah</a></center>
4 <table id="example" class="table table-hover table-striped">
5   <thead>
6     <tr>
7       <td>NO</td><td>Gambar</td><td>Nama Buku</td><td>Kategori</td><td>Harga</td><td>Aksi</td>
8     </tr>
9   </thead>
10  <tbody>
11    <?php $no=0;foreach ($tampil_buku as $buku):
12      $no++;?>
13    <tr>
14      <td><?=$no?></td><td></td>
15      <td><?=$buku->judul_buku?></td><td><?=$buku->nama_kategori?></td><td><?=$buku->harga?></td><td><a href
16      ="#edit" onclick="edit(<?=$buku->id_buku?>)" data-toggle="modal" class="btn btn-success">Ubah</a> <a href
17      ="<?=base_url('index.php/buku/hapus/'.$buku->id_buku)>" onclick="return confirm('Apakah Anda Yakin?')"
18      class="btn btn-danger">Hapus</a></td>
19    </tr>
20  </tbody>
21 </table>
```

Script modal untuk tambah buku di view buku.php dengan id=tambah

```

21
22 <div class="modal fade" id="tambah">
23   <div class="modal-dialog">
24     <div class="modal-content">
25       <div class="modal-header">
26         <button type="button" class="close" data-dismiss="modal"><span aria-hidden="true">&times;</span><span
          class="sr-only">Close</span></button>
27         <h4 class="modal-title">Tambah Buku</h4>
28       </div>
29       <div class="modal-body">
30         <form action="<?=base_url('index.php/buku/tambah')?>" method="post" enctype="multipart/form-data">
31           <table>
32             <tr><td>Judul Buku</td><td><input type="text" name="judul_buku" class="form-control"></td></tr>
33             <tr><td>Harga</td><td><input type="number" name="harga" class="form-control"></td></tr>
34             <tr><td>Deskripsi</td><td><textarea name="deskripsi" class="form-control"></textarea></td></tr>
35             <tr><td>Nama Kategori</td><td><select name="kategori" class="form-control">
36               <option></option>
37               <?php foreach ($kategori as $kat): ?>
38                 <option value="<?=$kat->id_kategori?>"
39                 <?=$kat->nama_kategori ?></option>
40               <?php endforeach ?>
41             </select></td></tr>
42             <tr><td>Gambar</td><td><input type="file" name="gambar" class="form-control"></td></tr>
43           </table>
44           <input type="submit" name="simpan" value="Simpan" class="btn btn-success">
45         </form>
46       </div>
47       <div class="modal-footer">
48         <button type="button" class="btn btn-default" data-dismiss="modal">Close</button>
49       </div>
50     </div><!-- /.modal-content -->
51   </div><!-- /.modal-dialog -->
52 </div><!-- /.modal -->

```

## Script proses tambah buku, controller buku function tambah

```

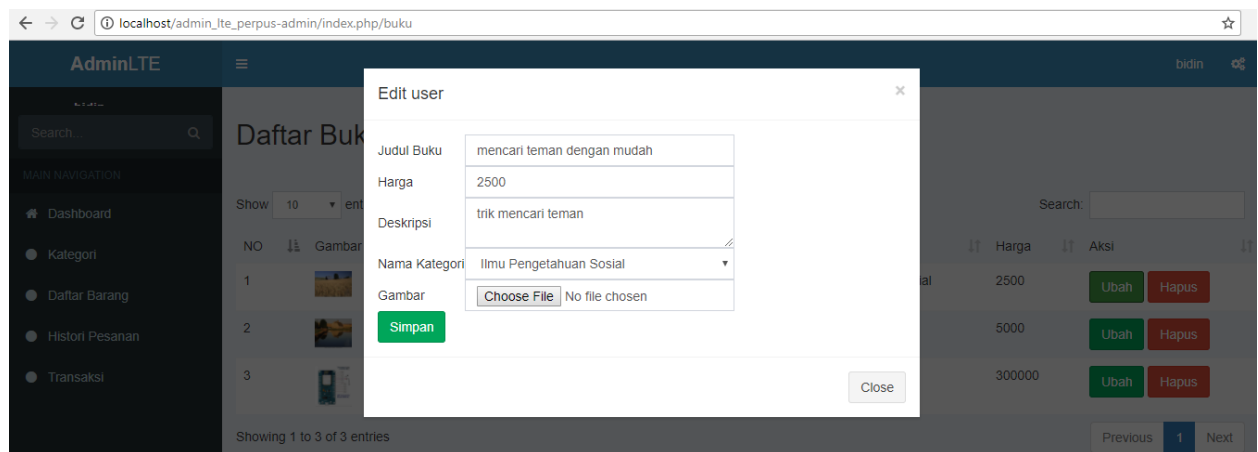
23 public function tambah()
24 {
25     $this->form_validation->set_rules('judul_buku', 'judul buku', 'trim|required');
26     $this->form_validation->set_rules('harga', 'harga', 'trim|required');
27     $this->form_validation->set_rules('deskripsi', 'deskripsi', 'trim|required');
28     $this->form_validation->set_rules('kategori', 'kategori', 'trim|required');
29     if ($this->form_validation->run() == TRUE) {
30         $config['upload_path'] = './asset/gambar/'; $config['allowed_types'] = 'gif|jpg|png';
31         $config['max_size'] = '1000'; $config['max_width'] = '1024'; $config['max_height'] = '768';
32         if($_FILES['gambar']['name']!=""){
33             $this->load->library('upload', $config);
34             if ( ! $this->upload->do_upload('gambar')){
35                 $this->session->set_flashdata('pesan', $this->upload->display_errors());
36             } else {
37                 if($this->buku->simpan_buku($this->upload->data('file_name'))){
38                     $this->session->set_flashdata('pesan', 'sukses menambah');
39                 } else {
40                     $this->session->set_flashdata('pesan', 'gagal menambah');
41                 }
42                 redirect('buku','refresh');
43             }
44         } else {
45             if($this->buku->simpan_buku('')){
46                 $this->session->set_flashdata('pesan', 'sukses menambah');
47             } else {
48                 $this->session->set_flashdata('pesan', 'gagal menambah');
49             }
50             redirect('buku','refresh');
51         }
52     } else {
53         $this->session->set_flashdata('pesan', validation_errors());
54         redirect('buku','refresh');
55     }
56 }

```

## Model m\_buku function simpan buku

```
27 public function simpan_buku($nama_file)
28 {
29     if($nama_file==""){
30         $object=array(
31             'judul_buku'=>$this->input->post('judul_buku'),
32             'harga'=>$this->input->post('harga'),
33             'deskripsi'=>$this->input->post('deskripsi'),
34             'id_kategori'=>$this->input->post('kategori'),
35         );
36     } else{
37         $object=array(
38             'judul_buku'=>$this->input->post('judul_buku'),
39             'harga'=>$this->input->post('harga'),
40             'deskripsi'=>$this->input->post('deskripsi'),
41             'id_kategori'=>$this->input->post('kategori'),
42             'gambar_buku'=>$nama_file
43         );
44     }
45     return $this->db->insert('buku', $object);
46 }
```

## I. Membuat Update Buku



Perhatikan gambar di bawah ini, tombol Ubah di view buku.php pada baris 14. Tombol ini memanggil popup atau modal bootstrap. Untuk menampilkan detail kategorinya menggunakan jquery. Yaitu menggunakan onclick="edit(nilai parameter)".

```

login.php — controllers x login.php — views x template.php x buku.php x
1 <h2>Daftar Buku Perpustakaan</h2>
2 <?=$this->session->flashdata('pesan');?>
3 <center><a href="#tambah" data-toggle="modal" class="btn btn-warning">Tambah</a></center>
4 <table id="example" class="table table-hover table-striped">
5   <thead>
6     <tr>
7       <td>NO</td><td>Gambar</td><td>Nama Buku</td><td>Kategori</td><td>Harga</td><td>Aksi</td>
8     </tr>
9   </thead>
10  <tbody>
11    <?php $no=0;foreach ($tampil_buku as $buku):
12      $no++;?>
13    <tr>
14      <td><?=$no?></td><td></td>
15      <td><?=$buku->judul_buku?></td><td><?=$buku->nama_kategori?></td><td><?=$buku->harga?></td><td><a href
16      ="#edit" onclick="edit(<?=$buku->id_buku?>)" data-toggle="modal" class="btn btn-success">Ubah</a> <a href
17      ="<?=base_url('index.php/buku/hapus/'.$buku->id_buku)?" onclick="return confirm('Apakah Anda Yakin?')"
18      class="btn btn-danger">Hapus</a></td>
19    </tr>
20  </tbody>
21 </table>

```

### Script popup modal bootstrap dengan id=edit

```

login.php — controllers x login.php — views x template.php x buku.php — views x buku.php — controllers x M_buku.php x
54 <div class="modal fade" id="edit">
55   <div class="modal-dialog">
56     <div class="modal-content">
57       <div class="modal-header">
58         <button type="button" class="close" data-dismiss="modal"><span aria-hidden="true">&times;</span><span
59         class="sr-only">Close</span></button>
60         <h4 class="modal-title">Edit user</h4>
61       </div>
62       <div class="modal-body">
63         <form action="<?=base_url('index.php/buku/buku_update')?" method="post" enctype="multipart/form-data">
64           <input type="hidden" name="id_buku" id="id_buku">
65           <table>
66             <tr><td>Judul Buku</td><td><input id="judul_buku" required type="text" name="judul_buku" class="
67             form-control"></td></tr>
68             <tr><td>Harga</td><td><input type="number" id="harga" required name="harga" class="form-control"></td></tr>
69             <tr><td>Deskripsi</td><td><textarea name="deskripsi" required id="deskripsi" class="form-control"></td></tr>
70             <tr><td>Nama Kategori</td><td><select name="kategori" required id="kategori" class="form-control">
71               <option></option>
72               <?php foreach ($kategori as $kat): ?>
73                 <option value="<?=$kat->id_kategori?">
74                 <?=$kat->nama_kategori ?></option>
75               <?php endforeach ?></select></td></tr>
76             <tr><td>Gambar</td><td><input type="file" name="gambar" id="gambar" class="form-control"></td></tr>
77           </table>
78           <input type="submit" name="simpan" value="Simpan" class="btn btn-success">
79         </form>
80       </div>
81       <div class="modal-footer">
82         <button type="button" class="btn btn-default" data-dismiss="modal">Close</button></div>
83     </div>
84   </div>
85 </div>

```

Notes: perhatikan gambar diatas. Setiap inputan diharus diberi id. Agar bisa dipanggil oleh script jquery.

Script jquery untuk menampilkan detail buku di setiap input modal. Yaitu function jquery edit(nilai parameter) yang ada di file view buku.php

```

91 <script>
92     function edit(a){
93         $.ajax({
94             type:"post",
95             url:"<?=base_url()>index.php/buku/edit_buku/"+a,
96             dataType:"json",
97             success:function(data){
98                 $("#id_buku").val(data.id_buku);
99                 $("#judul_buku").val(data.judul_buku);
100                 $("#harga").val(data.harga);
101                 $("#deskripsi").val(data.deskripsi);
102                 $("#kategori").val(data.id_kategori);
103             }
104         });
105     }
106 </script>

```

Script php untuk menampilkan detail buku yaitu di controller buku function edit\_buku

```

66     public function edit_buku($id)
67     {
68         $data=$this->buku->detail($id);
69         echo json_encode($data);
70     }

```

Script model detail buku yang ada di file model m\_buku function detail

```

13     public function detail($a)
14     {
15         $tm_buku=$this->db
16             ->join('kategori','kategori.id_kategori=buku.id_kategori')
17             ->where('id_buku',$a)
18             ->get('buku')
19             ->row();
20         return $tm_buku;
21     }

```

Script proses update buku di controller buku function buku\_update

```

71 public function buku_update()
72 {
73     if($this->input->post('simpan')){
74         if($_FILES['gambar']['name']==""){
75             if($this->buku->buku_update_no_foto()){
76                 $this->session->set_flashdata('pesan', 'Sukses update');
77                 redirect('buku');
78             } else {
79                 $this->session->set_flashdata('pesan', 'Gagal update');
80                 redirect('buku');
81             }
82         } else {
83             $config['upload_path'] = './asset/bukti/';
84             $config['allowed_types'] = 'gif|jpg|png|jpeg';
85             $config['max_size'] = '20000';
86             $config['max_width'] = '5024';
87             $config['max_height'] = '5768';
88             $this->load->library('upload', $config);
89             if ( ! $this->upload->do_upload('gambar')){
90                 $this->session->set_flashdata('pesan', 'Gagal Upload');
91                 redirect('buku');
92             } else{
93                 if($this->buku->buku_update_dengan_foto($this->upload->data('file_name'))){
94                     $this->session->set_flashdata('pesan', 'Sukses update');
95                     redirect('buku');
96                 } else {
97                     $this->session->set_flashdata('pesan', 'Gagal update');
98                     redirect('buku');
99                 }
100             }
101         }
102     }
103 }

```

Script model update buku di file model m\_buku function buku\_update\_no\_foto

```

51 public function buku_update_no_foto()
52 {
53     $object=array(
54         'judul_buku'=>$this->input->post('judul_buku'),
55         'harga'=>$this->input->post('harga'),
56         'deskripsi'=>$this->input->post('deskripsi'),
57         'id_kategori'=>$this->input->post('kategori')
58     );
59     return $this->db->where('id_buku',$this->input->post('id_buku'))
60         ->update('buku', $object);
61 }

```

Script model update buku di file model m\_buku function buku\_update\_dengan\_foto



```

62     public function buku_update_dengan_foto($nama_foto='')
63     {
64         $object=array(
65             'judul_buku'=>$this->input->post('judul_buku'),
66             'harga'=>$this->input->post('harga'),
67             'deskripsi'=>$this->input->post('deskripsi'),
68             'id_kategori'=>$this->input->post('kategori'),
69             'gambar_buku'=>$nama_foto
70         );
71         return $this->db->where('id_buku',$this->input->post('id_buku'))
72             ->update('buku', $object);
73     }

```

## J. Membuat Hapus Buku

```

login.php — controllers  login.php — views  template.php  buku.php
1  <h2>Daftar Buku Perpustakaan</h2>
2  <?=$this->session->flashdata('pesan');?>
3  <center><a href="#tambah" data-toggle="modal" class="btn btn-warning">Tambah</a></center>
4  <table id="example" class="table table-hover table-striped">
5      <thead>
6          <tr>
7              <td>NO</td><td>Gambar</td><td>Nama Buku</td><td>Kategori</td><td>Harga</td><td>Aksi</td>
8          </tr>
9      </thead>
10     <tbody>
11         <?php $no=0;foreach ($tampil_buku as $buku):
12             $no++;?>
13         <tr>
14             <td><?=$no?></td><td></td>
15             <td><?=$buku->judul_buku?></td><td><?=$buku->nama_kategori?></td><td><?=$buku->harga?></td><td><a href
16             ="#edit" onclick="edit(<?=$buku->id_buku?>)" data-toggle="modal" class="btn btn-success">Ubah</a> <a href
17             ="<?=-base_url('index.php/buku/hapus/'.$buku->id_buku)?>" onclick="return confirm('Apakah Anda Yakin?')"
18             class="btn btn-danger">Hapus</a></td>
19         </tr>
20     </tbody>
21 </table>

```

**Notes:** Perhatikan pada gambar diatas, tepatnya di baris 14 pada script <a> tombol hapus.

**Controller buku function hapus**

```

56     public function hapus($id_buku='')
57     {
58         if($this->buku->hapus_buku($id_buku)){
59             $this->session->set_flashdata('pesan', 'Sukses Hapus Buku');
60             redirect('buku','refresh');
61         } else {
62             $this->session->set_flashdata('pesan', 'Gagal Hapus Buku');
63             redirect('buku','refresh');
64         }
65     }

```

**Model m\_buku function hapus\_buku**

```

47     public function hapus_buku($id_buku='')
48     {
49         return $this->db->where('id_buku',$id_buku)->delete('buku');
50     }

```

## K. Membuat Halaman Transaksi

### Script controller transaksi

```

login.php — controllers x login.php — views x template.php Transaksi.php
1  k?php
2  defined('BASEPATH') OR exit('No direct script access allowed');
3
4  class Transaksi extends CI_Controller {
5
6      public function __construct()
7      {
8          parent::__construct();
9          $this->load->model('m_transaksi','trans');
10         $this->load->model('m_buku','buku');
11     }
12
13     public function index()
14     {
15         $data['peminjam']=$this->trans->tm_peminjam();
16         $data['tampil_buku']=$this->buku->tampil_buku();
17         $data['judul']="Transaksi";
18         $data['konten']="v_transaksi";
19         $this->load->view('template', $data, FALSE);
20     }

```

### Model m\_transaksi function tm\_peminjam

```
40     public function tm_peminjam()  
41     {  
42         return $this->db->get('peminjam')->result();  
43     }
```

Model m\_buku function tampil\_buku

```
6     public function tampil_buku()  
7     {  
8         $tm_buku=$this->db  
9             ->join('kategori','kategori.id_kategori=buku.id_kategori')  
10            ->get('buku')->result();  
11     return $tm_buku;  
12 }
```

## View v\_transaksi.php

Script dibawah ini adalah untuk menampilkan daftar buku

```
login.php — controllers x login.php — views x template.php x v_transaksi.php x
1 <h2 align="center">Halaman Transaksi</h2>
2 <div class="col-md-7">
3     <table id="example" class="table table-hover table-striped">
4         <thead>
5             <tr>
6                 <th>NO</th><th>Nama Buku</th><th>Harga</th><th>Kategori</th><th>Aksi</th>
7             </tr>
8         </thead>
9         <tbody>
10            <?php $no=0; foreach ($tampil_buku as $buku): $no++; ?>
11                <tr>
12                    <td><?=$no></td><td><?=$buku->judul_buku></td><td><?=$buku->harga></td><td><?=$buku->
13                        nama_kategori></td><td><a class="btn btn-warning" href="<?=base_url('index.php/
14                            transaksi/addcart/' . $buku->id_buku)>?">Pesan</a></td>
15                </tr>
16            <?php endforeach ?>
17        </tbody>
18    </table>
19 </div>
```

Script dibawah ini adalah terusan dari script diatas. Script ini untuk menampilkan data cart.

```
20 <div class="col-md-5">
21     <form action="<?=base_url('index.php/transaksi/simpan')>?" method="post">
22         <a class="btn btn-danger" href="<?=base_url('index.php/transaksi/clearcart')>?">Clear Cart</a>
23         Nama Peminjam : <select name="id_peminjam" class="form-control" style="display: inline-block; width: 200px;">
24             <option></option>
25             <?php foreach ($peminjam as $peminjam): ?>
26                 <option value="<?=$peminjam->id_peminjam>?"><?=$peminjam->nama></option>
27             <?php endforeach ?>
28         </select>
29         <table class="table table-striped table-hover">
30             <tr><th>NO</th><th>Judul Buku</th><th>QTY</th><th>Harga</th><th>Subtotal</th><th>Aksi</th></tr>
31             <?php $no=0; foreach ($this->cart->contents() as $items): $no++; ?>
32                 <input type="hidden" name="id_buku[]" value="<?=$items['id']>?">
33                 <input type="hidden" name="rowid[]" value="<?=$items['rowid']>?">
34                 <tr><td><?=$no></td><td><?=$items['name']></td><td width="1"><input type="text" name="qty[]"
35                     value="<?=$items['qty']>?" class="form-control" style="padding: 4px;"></td><td><?=number_format($
36                         items['price'])></td><td><?=number_format($items['subtotal'])></td><td><a href="<?=base_url('
37                             index.php/transaksi/hapus_cart/' . $items['rowid']>?" class="btn btn-danger">&times;</a></td>
38                 </tr>
39             <?php endforeach ?>
40             <tr style="border-bottom: 5px solid black">
41                 <td colspan="4">Grand Total</td><td><?= number_format($this->cart->total())></td><td></td>
42             </tr>
43         </table>
44         <input class="btn btn-success" type="submit" name="update" value="Update QTY"> <input type="submit" onclick
45             ="return confirm('Apakah Anda Yakin?')" class="btn btn-danger" value="Bayar" name="bayar">
46     </form>
47     <?php if ($this->session->flashdata('pesan')): ?>
48         <div class="alert alert-warning"><?=$this->session->flashdata('pesan');></div>
49     <?php endif ?>
50 </div>
```

## L. Proses Menyimpan Items Ke Cart

```

login.php — controllers x login.php — views x template.php v_transaksi.php x
1 <h2 align="center">Halaman Transaksi</h2>
2 <div class="col-md-7">
3     <table id="example" class="table table-hover table-striped">
4         <thead>
5             <tr>
6                 <th>NO</th><th>Nama Buku</th><th>Harga</th><th>Kategori</th><th>Aksi</th>
7             </tr>
8         </thead>
9         <tbody>
10            <?php $no=0; foreach ($tampil_buku as $buku): $no++; ?>
11                <tr>
12                    <td><?=$no?></td><td><?=$buku->judul_buku?></td><td><?=$buku->harga?></td><td><?=$buku->
13                        nama_kategori?></td><td><a class="btn btn-warning" href="<?=base_url('index.php/
14                            transaksi/addcart/' . $buku->id_buku)?>">Pesan</a></td>
15                </tr>
16            <?php endforeach ?>
17        </tbody>
18    </table>
19 </div>

```

**Notes:** perhatikan <a> tombol pesan pada baris 12. Tombol tersebut untuk menyimpan items ke cart.

#### Script controller transaksi function addcart

```

20 public function addcart($id)
21 {
22     $detail=$this->buku->detail($id);
23
24     $data = array(
25         'id'      => $detail->id_buku,
26         'qty'     => 1,
27         'price'   => $detail->harga,
28         'name'    => $detail->judul_buku,
29         'options' => array('genre'=>$detail->nama_kategori)
30     );
31
32     $this->cart->insert($data);
33     redirect('transaksi','refresh');
34 }

```

#### Script model m\_buku function detail

```

13 public function detail($a)
14 {
15     $tm_buku=$this->db
16         ->join('kategori','kategori.id_kategori=buku.id_kategori')
17         ->where('id_buku',$a)
18         ->get('buku')
19         ->row();
20     return $tm_buku;
21 }

```

## M. Membuat Proses Update QTY dan BAYAR

```

20 <div class="col-md-5">
21 <form action="<?=base_url('index.php/transaksi/simpan')?>" method="post">
22 <a class="btn btn-danger" href="<?=base_url('index.php/transaksi/clearcart')?>">Clear Cart</a>
23 Nama Peminjam : <select name="id_peminjam" class="form-control" style="display: inline-block; width: 200px">
24 <option></option>
25 <?php foreach ($peminjam as $peminjam): ?>
26 <option value="<?=$peminjam->id_peminjam?>"><?=$peminjam->nama?></option>
27 <?php endforeach ?>
28 </select>
29 <table class="table table-striped table-hover">
30 <tr><th>NO</th><th>Judul Buku</th><th>QTY</th><th>Harga</th><th>Subtotal</th><th>Aksi</th></tr>
31 <?php $no=0; foreach ($this->cart->contents() as $items): $no++; ?>
32 <input type="hidden" name="id_buku[]" value="<?=$items['id']?>">
33 <input type="hidden" name="rowid[]" value="<?=$items['rowid']?>">
34 <tr><td><?=$no?></td><td><?=$items['name']?></td><td width="1"><input type="text" name="qty[]"
    value="<?=$items['qty']?>" class="form-control" style="padding: 4px;"></td><td><?=number_format($
    items['price'])?></td><td><?=number_format($items['subtotal'])?></td><td><a href="<?=base_url('
    index.php/transaksi/hapus_cart/' . $items['rowid'])?>" class="btn btn-danger">&times;</a></td>
35 </tr>
36 <?php endforeach ?>
37 <input type="hidden" name="grandtotal" value="<?=$this->cart->total()?>">
38 <tr style="border-bottom: 5px solid black">
39 <th colspan="4">Grand Total</th><th><?= number_format($this->cart->total())?></th><th></th></tr>
40 </tr>
41 </table>
42 <input class="btn btn-success" type="submit" name="update" value="Update QTY"> <input type="submit" onclick
    ="return confirm('Apakah Anda Yakin?')" class="btn btn-danger" value="Bayar" name="bayar">
43 </form>
44 <?php if ($this->session->flashdata('pesan')): ?>
45 <div class="alert alert-warning"><?=$this->session->flashdata('pesan');?></div>
46 <?php endif ?>
47 </div>

```

**Notes:** perhatikan tag <a> tombol Update QTY dan tag <a> tombol Bayar pada baris 42. Tombol update QTY untuk mengupdate jumlah items jika dirubah. Dan untuk tombol bayar untuk proses menyimpan items cart ke database dan cetak nota.

**Script proses update QTY dan bayar pada Controller transaksi function simpan**

```

login.php — controllers x login.php — views x template.php v_transaksi.php x Transaksi.php x
50 public function simpan()
51 {
52
53     if ($this->input->post('update')) {
54
55         for($i=0;$i<count($this->input->post('rowid'));$i++){
56             $data = array(
57                 'rowid' => $this->input->post('rowid')[$i],
58                 'qty'   => $this->input->post('qty')[$i]
59             );
60             $this->cart->update($data);
61         }
62         redirect('transaksi','refresh');
63     } elseif($this->input->post('bayar')){
64         $this->form_validation->set_rules('id_peminjam', 'Peminjam', 'trim|required');
65         if ($this->form_validation->run() == TRUE) {
66             $id=$this->trans->simpan_cart_db();
67             if($id){
68                 $data['nota']=$this->trans->detail_nota($id);
69                 $this->load->view('cetak_nota', $data, FALSE);
70             }
71         } else {
72             $this->session->set_flashdata('pesan', validation_errors());
73             redirect('transaksi','refresh');
74         }
75     }
76 }
77 }

```

Notes: perhatikan gambar diatas, if yang pertama adalah mengupdate cart. Dan if yang kedua adalah menyimpan items cart ke database.

#### Script model m\_transaksi function simpan\_cart\_db

```
login.php — controllers x login.php — views x template.php v_transaksi.php x Transaksi.php x M_transaksi.php x
6 public function simpan_cart_db()
7 {
8     $tgl_deadline=date('Y-m-d',mktime(date('H'),date('i'),date('s'),date('m'),date('d')+7,date('Y')));
9     $object=array(
10         'id_peminjam'=>$this->input->post('id_peminjam'),
11         'tgl_pinjam'=>date('Y-m-d'),
12         'tgl_deadline'=>$tgl_deadline,
13         'grandtotal'=>$this->input->post('grandtotal'),
14         'status'=>'Confirmed',
15         'bukti'=>'-'
16     );
17     $this->db->insert('nota', $object);
18     $tm_nota=$this->db->order_by('id_nota','desc')
19         ->where('id_peminjam',$this->input->post('id_peminjam'))
20         ->limit(1)
21         ->get('nota')
22         ->row();
23
24     for($i=0;$i<count($this->input->post('rowid'));$i++){
25         $hasil[]=array(
26             'id_nota'=>$tm_nota->id_nota,
27             'id_buku'=>$this->input->post('id_buku')[$i],
28             'jumlah'=>$this->input->post('qty')[$i]
29         );
30     }
31     $proses=$this->db->insert_batch('peminjaman', $hasil);
32     if($proses){
33         return $tm_nota->id_nota;
34     } else {
35         return 0;
36     }
37 }
38 }
```

#### Script model m\_transaksi function detail\_nota

```
43 public function detail_nota($id_nota)
44 {
45     return $this->db->where('id_nota',$id_nota)
46         ->join('peminjam','peminjam.id_peminjam=nota.id_peminjam')
47         ->get('nota')->row();
48 }
```

View cetak\_nota.php

```

login.php — controllers x login.php — views x template.php v_transaksi.php x Transaksi.php x cetak_nota.php x M_trans
1 <h2 align="center">Nota Peminjaman</h2>
2 No Nota : <?= $nota->id_nota?><br>
3 Tanggal Pinjam : <?= $nota->tgl_pinjam?><br>
4 Tanggal Deadline : <?= $nota->tgl_deadline?><br>
5 Tanggal Kembali : _____<br>
6
7 <table border="1" style="border-collapse: collapse;">
8     <tr>
9         <th>NO</th><th>Nama Buku</th><th>Harga</th><th>QTY</th><th>Subtotal</th>
10     </tr>
11     <?php $no=0; foreach ($this->trans->detail_peminjaman($nota->id_nota) as $buku): $no++;?>
12         <tr>
13             <th><?=$no?></th><th><?=$buku->judul_buku?></th><th><?= number_format($buku->harga)?></th><th><?=$buku
->jumlah?></th><th><?= number_format(($buku->harga*$buku->jumlah))?></th>
14         </tr>
15     <?php endforeach ?>
16     <tr>
17         <th colspan="4">Grand Total</th><th><?= number_format($nota->grandtotal)?></th>
18     </tr>
19 </table>
20
21 <script type="text/javascript">
22     window.print();
23     location.href="<?=base_url('index.php/transaksi')?>";
24 </script>

```

Script Model m\_transaksi function detail\_peminjaman

```

49 public function detail_peminjaman($id_nota)
50 {
51     return $this->db->where('id_nota',$id_nota)
52         ->join('buku','buku.id_buku=peminjaman.id_buku')
53         ->join('kategori','kategori.id_kategori=buku.id_kategori')
54         ->get('peminjaman')->result();
55 }

```