



- [buku](#)
- [dosen](#)
- [mahasiswa](#)
- [peminjaman](#)
- [tmp](#)

buku

Fields

Field	Type	Collation	Null	Key	Default	Extra	Privileges	Comment
kd_buku	varchar(10)	latin1_swedish_ci	NO	PRI			select,insert,update,references	
judul	varchar(50)	latin1_swedish_ci	YES				select,insert,update,references	
pengarang	varchar(20)	latin1_swedish_ci	YES				select,insert,update,references	
jenis	varchar(20)	latin1_swedish_ci	YES				select,insert,update,references	

Indexes

Table	Non unique	Key name	Seq in index	Column name	Collation	Cardinality	Sub part	Packed	Null	Index type	Comment	Index comment
buku	0	PRIMARY	1	kd_buku	A	2	(NULL)	(NULL)		BTREE		

dosen

Fields

Field	Type	Collation	Null	Key	Default	Extra	Privileges	Comment
nip	varchar(10)	latin1_swedish_ci	NO	PRI			select,insert,update,references	
nama_dosen	varchar(20)	latin1_swedish_ci	YES				select,insert,update,references	
bidang	varchar(30)	latin1_swedish_ci	YES				select,insert,update,references	
telp	varchar(15)	latin1_swedish_ci	YES		0		select,insert,update,references	

Indexes

Table	Non unique	Key name	Seq in index	Column name	Collation	Cardinality	Sub part	Packed	Null	Index type	Comment	Index comment
dosen	0	PRIMARY	1	nip	A	2	(NULL)	(NULL)		BTREE		

mahasiswa

Fields

Field	Type	Collation	Null	Key	Default	Extra	Privileges	Comment
nim	varchar(10)	latin1_swedish_ci	NO	PRI			select,insert,update,references	
nama	varchar(20)	latin1_swedish_ci	YES				select,insert,update,references	
jurusan	varchar(30)	latin1_swedish_ci	YES				select,insert,update,references	
alamat	varchar(30)	latin1_swedish_ci	YES				select,insert,update,references	

Indexes

Table	Non unique	Key name	Seq in index	Column name	Collation	Cardinality	Sub part	Packed	Null	Index type	Comment	Index comment
Mahasiswa	0	PRIMARY	1	nim	A	3	(NULL)	(NULL)		BTREE		

peminjaman

Fields

Field	Type	Collation	Null	Key	Default	Extra	Privileges	Comment
id_peminjaman	varchar(12)	utf8_general_ci	NO	PRI	(NULL)		select,insert,update,references	
nim	varchar(10)	utf8_general_ci	NO	PRI	(NULL)		select,insert,update,references	

kd_buku	varchar(5)	utf8_general_c	NO	PRI	(NULL)		select,insert,update,reference	s	
tanggal_pinjam	date	(NULL)	YES		(NULL)		select,insert,update,reference	s	
tanggal_kembali	date	(NULL)	YES		(NULL)		select,insert,update,reference	s	
status	varchar(45)	utf8_general_c	YES		(NULL)		select,insert,update,reference	s	

Indexes

Table	Non unique	Key name	Seq in index	Column name	Collation	Cardinality	Sub part	Packed	Null	Index type	Comment	Index comment
peminjaman	0	PRIMARY	1	id_peminjaman	A	2	(NULL)	(NULL)		BTREE		
peminjaman	0	PRIMARY	2	nim	A	2	(NULL)	(NULL)		BTREE		
peminjaman	0	PRIMARY	3	kd_buku	A	2	(NULL)	(NULL)		BTREE		

tmp

Fields

Field	Type	Collation	Null	Key	Default	Extra	Privileges	Comment
kd_buku	varchar(5)	utf8_general_ci	NO		(NULL)		select,insert,update,references	
judul	varchar(100)	utf8_general_ci	NO		(NULL)		select,insert,update,references	
pengarang	varchar(50)	utf8_general_ci	NO		(NULL)		select,insert,update,references	

Indexes

➔ MySQL – Query Database (SQL Yog)

Run (jalankan query)

Editor Query. Masukan script queries untuk schema database.

Hasil schema table yg telah dijalankan/dibentuk.

SQL Script:

```
1 CREATE DATABASE IF NOT EXISTS CI;
2
3 /*Table structure for table buku */
4
5 DROP TABLE IF EXISTS buku;
6
7 CREATE TABLE buku (
8   kd_buku VARCHAR(10) NOT NULL DEFAULT '', judul VARCHAR(50) DEFAULT '',
9   pengarang VARCHAR(20) DEFAULT '', jenis VARCHAR(20) DEFAULT '',
10  PRIMARY KEY (kd_buku)
11 ) ENGINE=INNODB DEFAULT CHARSET=latin1;
```

Database Structure:

- ci_
 - buku
 - dosen
 - mahasiswa
 - peminjaman
 - tmp
 - Views
 - Stored Procs
 - Functions
 - Triggers
 - Events
 - ci_ku_master

Messages

Table Data

Info

http://www.webyog.com Exec: 0 sec Total: 0 sec Ln 12, Col 1 Connections: 1



→ MySQL – Query Database (gunakan editor query SQL Yog)

```
CREATE DATABASE IF NOT EXISTS CI;
```

/*Table structure for table buku */

```
DROP TABLE IF EXISTS buku;
```

```
CREATE TABLE buku (  
  kd_buku varchar(10) NOT NULL DEFAULT "", judul varchar(50) DEFAULT "",  
  pengarang varchar(20) DEFAULT "", jenis varchar(20) DEFAULT "",  
  PRIMARY KEY (kd_buku)  
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
```

/*Table structure for table dosen */

```
DROP TABLE IF EXISTS dosen;
```

```
CREATE TABLE dosen (  
  nip varchar(10) NOT NULL DEFAULT "",  
  nama_dosen varchar(20) DEFAULT "", bidang varchar(30) DEFAULT "",  
  telp varchar(15) DEFAULT '0', PRIMARY KEY (nip)  
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
```

/*Table structure for table mahasiswa */

```
DROP TABLE IF EXISTS mahasiswa;
```

```
CREATE TABLE mahasiswa (  
  nim varchar(10) NOT NULL DEFAULT "", nama varchar(20) DEFAULT "",  
  jurusan varchar(30) DEFAULT "", alamat varchar(30) DEFAULT "", PRIMARY KEY (nim)  
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
```

```
INSERT INTO mahasiswa(nim,nama,jurusan,alamat) VALUES  
  ('10185068','Jamal Apriadi','Teknik Informatika','Pangkah'),  
  ('10185074','Nazar Zulmi','Teknik Informatika','Kalibantu'),  
  ('10185077','Agus Imam','Teknik Informatika','Trayeman');
```

/*Table structure for table peminjaman */

```
DROP TABLE IF EXISTS peminjaman;
```

```
CREATE TABLE peminjaman (  
  id_peminjaman varchar(12) NOT NULL, nim varchar(10) NOT NULL,  
  kd_buku varchar(5) NOT NULL, tanggal_pinjam date DEFAULT NULL,  
  tanggal_kembali date DEFAULT NULL,  
  status varchar(45) DEFAULT NULL,  
  PRIMARY KEY (id_peminjaman,nim,kd_buku)  
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
```

/*Table structure for table tmp */

```
DROP TABLE IF EXISTS tmp;
```

```
CREATE TABLE tmp (  
  kd_buku varchar(5) NOT NULL,  
  judul varchar(100) NOT NULL,  
  pengarang varchar(50) NOT NULL  
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
```

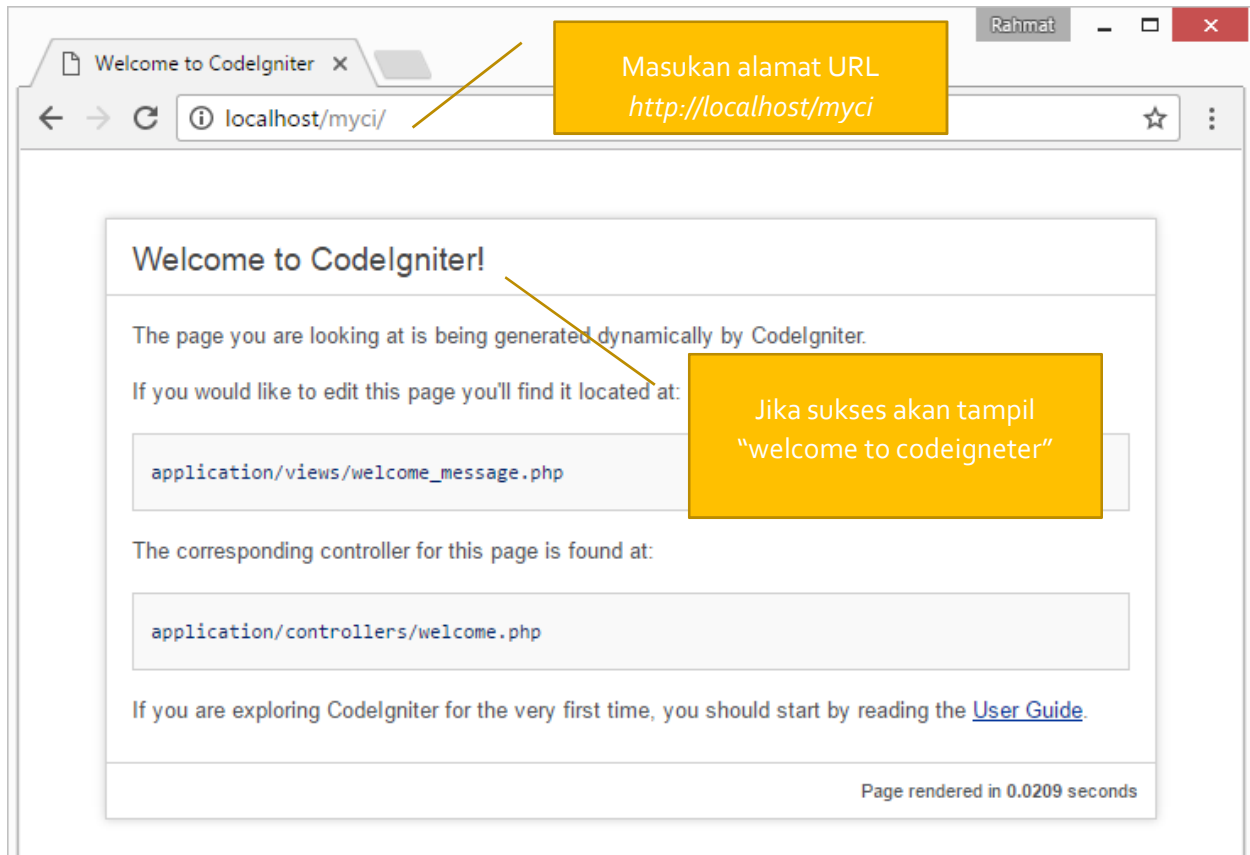


→ Persiapan Framework Codeigniter

Untuk melakukan setting framework Codeigniter, lakukan langkah-langkah berikut :

1. Estela Xampp terinstal dengan baik, Ekstrak file Codeigniter_2.1.3.zip ke direktori xampp/htdocs dan rename menjadi **"MyCI"** agar lebih memudahkan kita.
2. Lakukan testing dengan mengetikkan alamat `http://localhost/myci` pada address bar di browser

Berikut ini adalah tampilan yang pada browser jika framework Codeigniter telah berjalan dengan baik :



→ Pengaturan Framework Codeigniter

1. Konfigurasi File autoload.php (C:\xampp\htdocs\MyCI\application\config\autoload.php)

→ Ubahlah script dibawah ini pada baris kode ke 55.

```
$autoload['libraries'] = array("");
```

→ →

```
$autoload['libraries'] = array('database','session');
```

→ Ubahlah script dibawah ini pada baris kode ke 67.

```
$autoload['helper'] = array("");
```

→ →

```
$autoload['helper'] = array('url','file','html','form');
```

Pada file autoload.php ini kita melakukan konfigurasi untuk library ataupun helper yang akan kita panggil secara otomatis ketika program codeigniter kita dijalankan



2. Konfigurasi File database.php (C:\xampp\htdocs\MyCI\application\config\database.php)
→ Ubahlah script dibawah ini pada baris kode ke 51 sd 65.

```
$db['default']['hostname'] = 'localhost';
$db['default']['username'] = '';
$db['default']['password'] = '';
$db['default']['database'] = '';
$db['default']['dbdriver'] = 'mysql';
$db['default']['dbprefix'] = '';
$db['default']['pconnect'] = TRUE;
$db['default']['db_debug'] = TRUE;
$db['default']['cache_on'] = FALSE;
$db['default']['cachedir'] = '';
$db['default']['char_set'] = 'utf8';
$db['default']['dbcollat'] = 'utf8_general_ci';
$db['default']['swap_pre'] = '';
$db['default']['autoinit'] = TRUE;
$db['default']['stricton'] = FALSE;
```

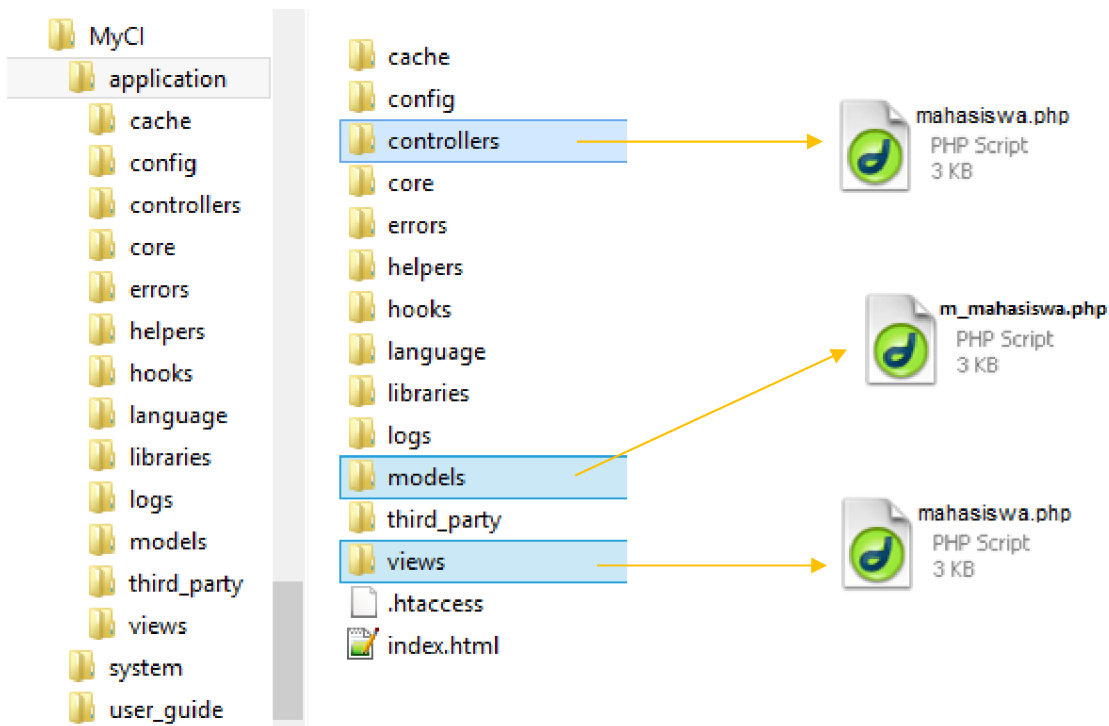
→ →

```
$db['default']['hostname'] = 'localhost';
$db['default']['username'] = 'root';
$db['default']['password'] = 'password';
$db['default']['database'] = 'ci';
$db['default']['dbdriver'] = 'mysql';
$db['default']['dbprefix'] = '';
$db['default']['pconnect'] = TRUE;
$db['default']['db_debug'] = TRUE;
$db['default']['cache_on'] = FALSE;
$db['default']['cachedir'] = '';
$db['default']['char_set'] = 'utf8';
$db['default']['dbcollat'] = 'utf8_general_ci';
$db['default']['swap_pre'] = '';
$db['default']['autoinit'] = TRUE;
$db['default']['stricton'] = FALSE;
```

Di file database.php ini mengatur tentang urusan koneksi framework codeigniter dengan database:

Username dan Password sesuaikan dengan webserver anda, dan database nya adalah **CI** yang telah dibuat sebelumnya.

→ File-file MVC pada folder proyek MyCI





→ File MODEL | *m_mahasiswa.php*

Sekarang semua telah diatur dengan baik, sekarang kita buat file model kita, beri nama *m_mahasiswa.php* dan simpan di *application/model*.

```
<?php
class m_mahasiswa extends CI_Model{
    private $table="mahasiswa";
    private $primary="nim";

    function tampilData(){
        if(empty($order_column) || empty($order_type))
            $this->db->order_by($this->primary,'asc');
        else
            $this->db->order_by();
        return $this->db->get($this->table);
    }
}
```

→ File CONTROLLER | *mahasiswa.php*

Setelah itu kita buat file *mahasiswa.php* (controller). Kita akan meletakkan kode agar controller dapat mengambil data dari database yang sudah di deklarasi pada file model dibaris kode yang telah kita buat sebelumnya sehingga skrip (controller) *mahasiswa.php* akan seperti berikut :

```
<?php
class mahasiswa extends CI_Controller{

    function __construct(){
        parent::__construct();
        $this->load->model('m_mahasiswa');
    }

    function index(){
        $data['mahasiswa']=$this->m_mahasiswa->tampilData()->result();
        $this->load->view('mahasiswa',$data);
    }
}
```



➔ File VIEW | mahasiswa.php

Selanjutnya, kita akan membuat file view. Kita akan meletakkan kode pada file view ini untuk menampilkan setiap data yang masuk, yaitu data yang ada di database ci table mahasiswa, simpan di folder application/views dengan nama mahasiswa.php

```
<html>
<head>
<title>Data Mahasiswa</title>
</head>
<body>
  <legend>Data Mahasiswa</legend>
  <table width="40%" border="1">
    <thead>
      <tr>
        <td>No.</td>
        <td>NIM</td>
        <td>Nama</td>
        <td>Jurusan</td>
        <td>Alamat</td>
      </tr>
    </thead>
    <?php $no=0; foreach($mahasiswa as $row ): $no++;?>
    <tr>
      <td><?php echo $no;?></td>
      <td><?php echo $row->nim;?></td>
      <td><?php echo $row->nama;?></td>
      <td><?php echo $row->jurusan;?></td>
      <td><?php echo $row->alamat;?></td>
    </tr>
    <?php endforeach;?>
  </Table>
</body>
</html>
```

Sekarang coba jalankan di web browser anda dengan mengetikkan alamat url <http://localhost/myci/index.php/mahasiswa>

Data Mahasiswa

localhost/ci/index.php/mahasiswa

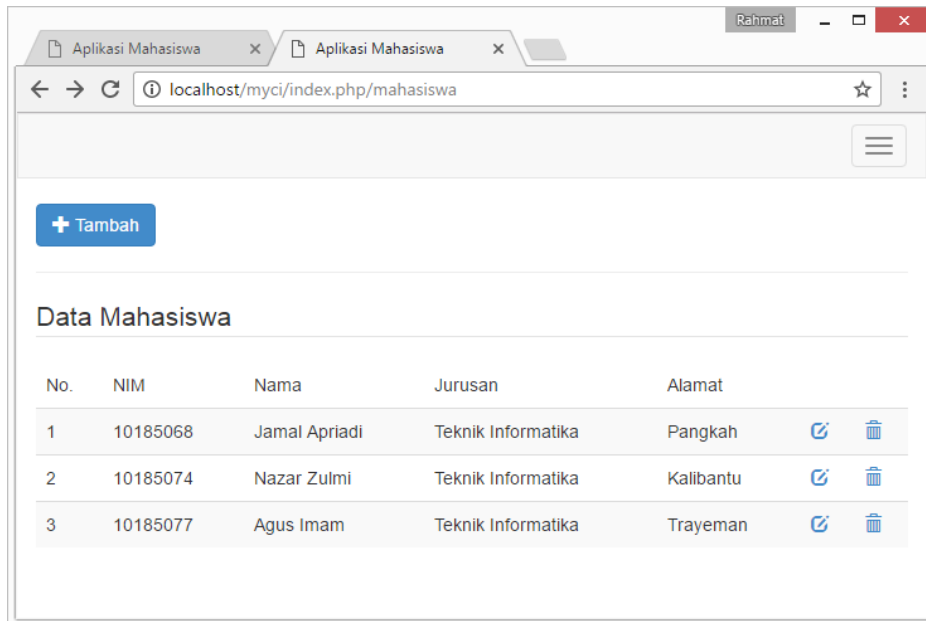
No.	NIM	Nama	Jurusan	Alamat
1	10185068	Jamal Apriadi	Teknik Informatika	Pangkah
2	10185074	Nazar Zulmi	Teknik Informatika	Kalibantu
3	10185077	Agus Imam	Teknik Informatika	Trayeman



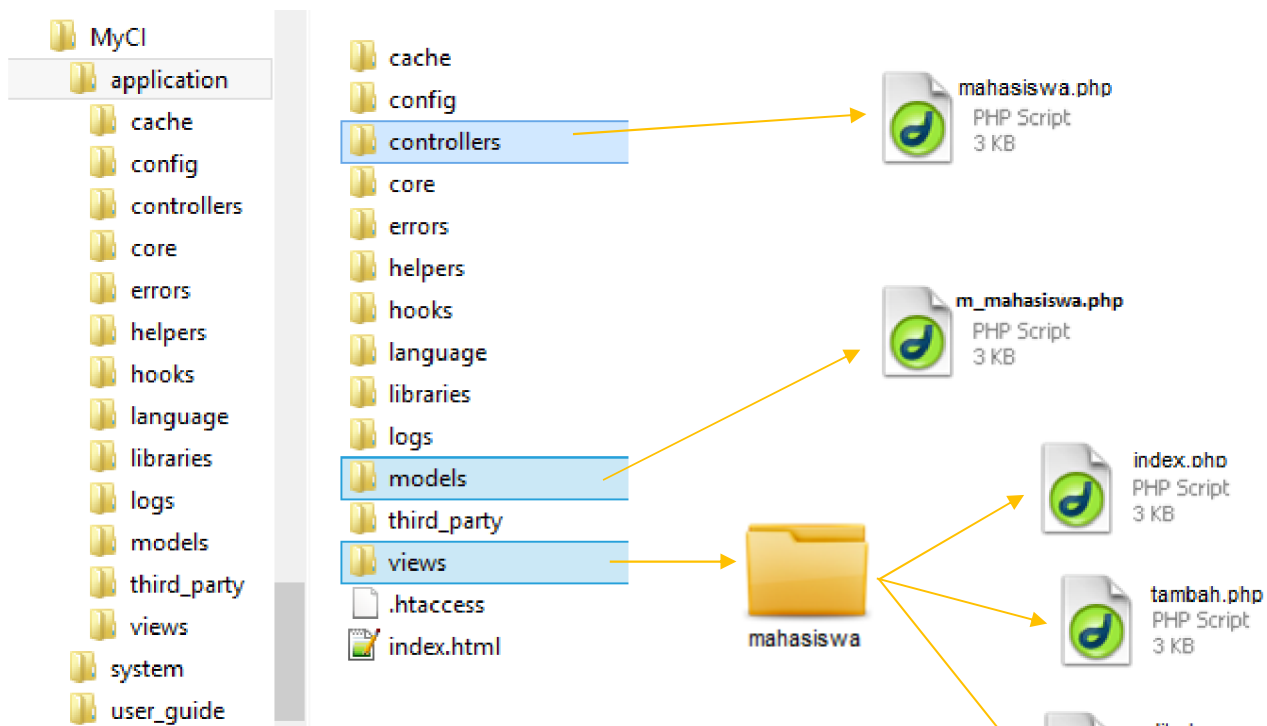
→ Migrasi Template Bootstrap and CI

Untuk migrasi tampilan web lebih user friendly, dibutuhkan suatu template web yang sudah mengimplemtasikan HTML 5, JQMobile, Javascript, dll. Untuk memudahkan proyek web kita silahkan ekstrak file "master_bootstrap_ci" yang terdapat folder MyCI, kemudian pindahkan dan tempatkan pada masing-masing localhost server kita C:\xampp\htdocs\MyCI

Adapaun terjadi kesalahan, pastikan pengaturan (setting) koneksi dengan Database kita disesuaikan (red. Lihat halaman 5). Jika tidak ada kendala, silahkan coba akses halaman <http://localhost/myci/index.php/mahasiswa>



→ Schema Modul MAHASISWA





→ File VIEW → Mahasiswa | *index.php* | membuat halaman HTML tampil data

```
<a href="<?php echo site_url('mahasiswa/tambah');?>" class="btn btn-primary"><i class="glyphicon glyphicon-plus"></i>
Tambah</a>
<hr>
<legend>Data Mahasiswa</legend>
<?php echo $message;?>
<Table class="table table-striped">
  <thead>
    <tr>
      <td>No.</td>
      <td>NIM</td>
      <td>Nama</td>
      <td>Jurusan</td>
      <td>Alamat</td>
      <td colspan="2"></td>
    </tr>
  </thead>
  <?php $no=0; foreach($mahasiswa as $row ): $no++;?>
    <tr>
      <td><?php echo $no;?></td>
      <td><?php echo $row->nim;?></td>
      <td><?php echo $row->nama;?></td>
      <td><?php echo $row->jurusan;?></td>
      <td><?php echo $row->alamat;?></td>
      <td><a href="<?php echo site_url('mahasiswa/edit/'.$row->nim);?>"><i class="glyphicon glyphicon-edit"></i></a></td>
      <td><a href="#" class="hapus" kode="<?php echo $row->nim;?>"><i class="glyphicon glyphicon-trash"></i></a></td>
    </tr>
  <?php endforeach;?>
</Table>

<script>
  $(function(){
    $(".hapus").click(function(){
      var kode=$(this).attr("kode");

      $("#idhapus").val(kode);
      $("#myModal").modal("show");
    });

    $("#konfirmasi").click(function(){
      var kode=$("#idhapus").val();

      $.ajax({
        url:"<?php echo site_url('mahasiswa/hapus');?>",
        type:"POST",
        data:"kode="+kode,
        cache:false,
        success:function(html){
          location.href="<?php echo site_url('mahasiswa/index/delete_success');?>";
        }
      });
    });
  });
</script>
```



➔ File Controller | *mahasiswa.php* | membuat fungsi DML (create, read, update, delete)

```
<?php
class mahasiswa extends CI_Controller{

function __construct(){
    parent::__construct();
    $this->load->library(array('template','pagination','form_validation','upload'));
    $this->load->model('m_mahasiswa');
}

function index(){
    $data['mahasiswa']=$this->m_mahasiswa->tampilData()->result();
    $config['base_url']=site_url('mahasiswa/index/');

    if($this->uri->segment(3)=="delete_success")
        $data['message']="<div class='alert alert-success'>Data berhasil dihapus</div>";
    else if($this->uri->segment(3)=="add_success")
        $data['message']="<div class='alert alert-success'>Data Berhasil disimpan</div>";
    else
        $data['message']="";
    $this->template->display('mahasiswa/index',$data);
}

function tambah(){
    $nim=$this->input->post('nim');
    if($nim<>""){
        $cek=$this->m_mahasiswa->cek($nim);
        if($cek->num_rows(>0){
            $data['message']="<div class='alert alert-warning'>NIM sudah digunakan</div>";
            $this->template->display('mahasiswa/tambah',$data);
        }else{
            $isidata=array(
                'nim'=>$this->input->post('nim'),
                'nama'=>$this->input->post('nama'),
                'jurusan'=>$this->input->post('jurusan'),
                'alamat'=>$this->input->post('alamat')
            );
            $this->m_mahasiswa->simpan($isidata);
            redirect('mahasiswa/index/add_success');
        }
    }else{
        $data['message']="";
        $this->template->display('mahasiswa/tambah',$data);
    }
}

function hapus(){
    $nim=$this->input->post('kode');
    $this->m_mahasiswa->hapus($nim);
}
```



```
function edit($id){
    $nim=$this->input->post('nim');
    $nama=$this->input->post('nama');
    $jurusan=$this->input->post('jurusan');
    $alamat=$this->input->post('alamat');

    if($nim<>"" and $nama<>"" and $jurusan<>"" and $alamat<>"){
        $isidata=array(
            'nama'=>$this->input->post('nama'),
            'jurusan'=>$this->input->post('jurusan'),
            'alamat'=>$this->input->post('alamat'));

        $this->m_mahasiswa->update($nim,$isidata);
        $data['message']="<div class='alert alert-success'>Data Berhasil diupdate</div>";
        $data['mhs']=$this->m_mahasiswa->cek($id)->row_array();
        $this->template->display('mahasiswa/edit',$data);
    }else{
        $data['mhs']=$this->m_mahasiswa->cek($id)->row_array();
        $data['message']="";
        $this->template->display('mahasiswa/edit',$data);
    }
}
}
```



→ File Model | *m_mahasiswa.php* | membuat fungsi DML (create, read, update, delete)

```
<?php
class m_mahasiswa extends CI_Model{
    private $table="mahasiswa";
    private $primary="nim";

    function tampilData(){
        if(empty($order_column) || empty($order_type))
            $this->db->order_by($this->primary,'asc');
        else
            $this->db->order_by();
        return $this->db->get($this->table);
    }

    function jumlah(){
        return $this->db->count_all($this->table);
    }

    function cek($kode){
        $this->db->where($this->primary,$kode);
        $query=$this->db->get($this->table);

        return $query;
    }

    function simpan($coba){
        $this->db->insert($this->table,$coba);
        return $this->db->insert_id();
    }

    function update($kode,$jenis){
        $this->db->where($this->primary,$kode);
        $this->db->update($this->table,$jenis);
    }

    function hapus($kode){
        $this->db->where($this->primary,$kode);
        $this->db->delete($this->table);
    }

    function cari($cari){
        $this->db->like($this->primary,$cari);
        $this->db->or_like("nama",$cari);
        return $this->db->get($this->table);
    }
}
```



→ File VIEW → Mahasiswa | *tambah.php* | form halaman HTML tambah

```
<?php echo $message;?>
<form class="form-horizontal" action="" method="post" enctype="multipart/form-data">
  <div class="form-group">
    <label class="col-lg-2 control-label">NIM</label>
    <div class="col-lg-5">
      <input type="text" name="nim" class="form-control">
    </div>
  </div>
  <div class="form-group">
    <label class="col-lg-2 control-label">Nama</label>
    <div class="col-lg-5">
      <input type="text" name="nama" class="form-control">
    </div>
  </div>
  <div class="form-group">
    <label class="col-lg-2 control-label">Jurusan</label>
    <div class="col-lg-5">
      <input type="text" name="jurusan" class="form-control">
    </div>
  </div>
  <div class="form-group">
    <label class="col-lg-2 control-label">Alamat</label>
    <div class="col-lg-5">
      <input type="text" name="alamat" class="form-control">
    </div>
  </div>
  <div class="form-group well">
    <button class="btn btn-primary"><i class="glyphicon glyphicon-hdd"></i> Simpan</button>
    <a href="<?php echo site_url('mahasiswa');?>" class="btn btn-default">Kembali</a>
  </div>
</form>
```



→ File VIEW → Mahasiswa | *edit.php* | form halaman HTML edit

```
<legend>Edit Data Mahasiswa</legend>
<?php echo $message;?>
<form class="form-horizontal" action="" method="post" enctype="multipart/form-data">
  <div class="form-group">
    <label class="col-lg-2 control-label">NIM</label>
    <div class="col-lg-5">
      <input type="text" name="nim" class="form-control" value="<?php echo $mhs['nim'];?>" readonly="readonly">
    </div>
  </div>
  <div class="form-group">
    <label class="col-lg-2 control-label">Nama</label>
    <div class="col-lg-5">
      <input type="text" name="nama" class="form-control" value="<?php echo $mhs['nama'];?>">
    </div>
  </div>
  <div class="form-group">
    <label class="col-lg-2 control-label">Jurusan</label>
    <div class="col-lg-5">
      <input type="text" name="jurusan" class="form-control" value="<?php echo $mhs['jurusan'];?>">
    </div>
  </div>
  <div class="form-group">
    <label class="col-lg-2 control-label">Alamat</label>
    <div class="col-lg-5">
      <input type="text" name="alamat" class="form-control" value="<?php echo $mhs['alamat'];?>">
    </div>
  </div>
  <div class="form-group well">
    <button class="btn btn-primary"><i class="glyphicon glyphicon-hdd"></i> Simpan</button>
    <a href="<?php echo site_url('mahasiswa');?>" class="btn btn-default">Kembali</a>
  </div>
</form>
```



(Tampil Data) <http://localhost/ci/index.php/mahasiswa>

+ Tambah

Data Mahasiswa

No.	NIM	Nama	Jurusan	Alamat		
1	10185068	Jamal Apriadi	Teknik Informatika	Pangkajene		
2	10185074	Nazar Zulmi	Teknik Informatika	Kalibantorejo		
3	10185077	Agus Imam	Teknik Informatika	Trayemansari		

(Tambah) <http://localhost/ci/index.php/mahasiswa/tambah>

NIM

Nama

Jurusan

Alamat

Simpan **Kembali**

<http://localhost/ci/index.php/mahasiswa/edit/10185068>

Edit Data Mahasiswa

NIM

10185068

Nama

Jamal Apriadi

Jurusan

Teknik Informatika

Alamat

Pangkajene

Simpan **Kembali**

(Hapus) <http://localhost/ci/index.php/mahasiswa/#>

Konfirmasi

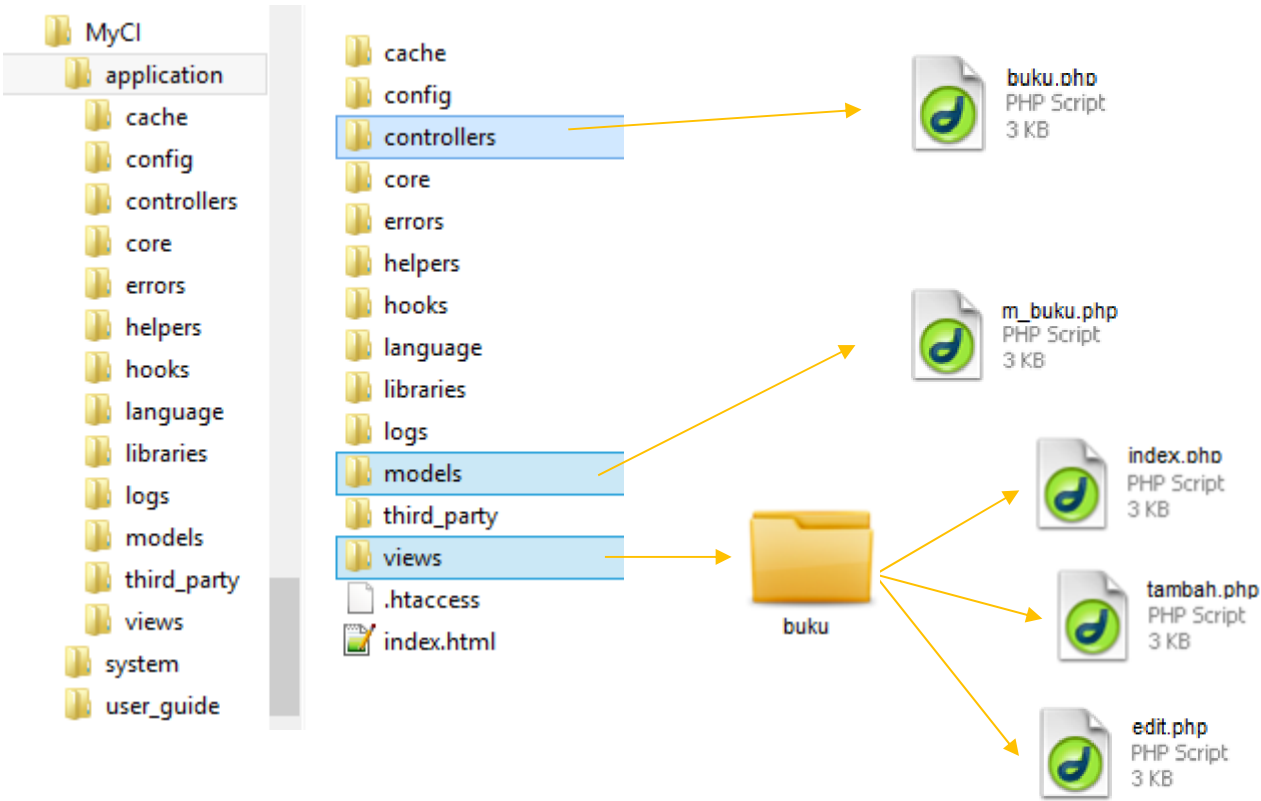
Apakah anda yakin ingin menghapus data ini?

Close **Hapus**

1	10185068	Jamal Apriadi	Teknik Informatika	Pangkajene		
2	10185074	Nazar Zulmi	Teknik Informatika	Kalibantorejo		
3	10185077	Agus Imam	Teknik Informatika	Trayemansari		



➔ Schema Modul BUKU



➔ File Controller | *buku.php* | membuat fungsi DML (create, read, update, delete)

```
<?php
class buku extends CI_Controller{

function __construct(){
    parent::__construct();
    $this->load->library(array('template','pagination','form_validation','upload'));
    $this->load->model('m_buku');
}

function index(){
    $data['buku']=$this->m_buku->tampilData()->result();
    $config['base_url']=site_url('buku/index/');

    if($this->uri->segment(3)=="delete_success")
        $data['message']="<div class='alert alert-success'>Data berhasil dihapus</div>";
    else if($this->uri->segment(3)=="add_success")
        $data['message']="<div class='alert alert-success'>Data Berhasil disimpan</div>";
    else
        $data['message']="";
    $this->template->display('buku/index',$data);
}
```




```

function tambah(){
    $kd_buku=$this->input->post('kd_buku');
    if($kd_buku<>""){
        $cek=$this->m_buku->cek($kd_buku);
        if($cek->num_rows()>0){
            $data['message']="<div class='alert alert-warning'>Buku sudah digunakan</div>";
            $this->template->display('buku/tambah',$data);
        }else{
            $isidata=array(
                'kd_buku'=>$this->input->post('kd_buku'),
                'judul'=>$this->input->post('judul'),
                'pengarang'=>$this->input->post('pengarang'),
                'jenis'=>$this->input->post('jenis')
            );
            $this->m_buku->simpan($isidata);
            redirect('buku/index/add_success');
        }
    }else{
        $data['message']="";
        $this->template->display('buku/tambah',$data);
    }
}

function hapus(){
    $kd_buku=$this->input->post('kode');
    $this->m_buku->hapus($kd_buku);
}

function edit($id){
    $kd_buku=$this->input->post('kd_buku');
    $judul=$this->input->post('judul');
    $pengarang=$this->input->post('pengarang');
    $jenis=$this->input->post('jenis');

    if($kd_buku<>"" and $judul<>"" and $pengarang<>"" and $jenis<>""){
        $isidata=array(
            'judul'=>$this->input->post('judul'),
            'pengarang'=>$this->input->post('pengarang'),
            'jenis'=>$this->input->post('jenis')
        );

        $this->m_buku->update($kd_buku,$isidata);
        $data['message']="<div class='alert alert-success'>Data Berhasil diupdate</div>";
        $data['bk']=$this->m_buku->cek($id)->row_array();
        $this->template->display('buku/edit',$data);
    }else{
        $data['bk']=$this->m_buku->cek($id)->row_array();
        $data['message']="";
        $this->template->display('buku/edit',$data);
    }
}
}
}

```

**➔ File Model | m_buku.php | membuat fungsi DML (create, read, update, delete)**

```
<?php
class m_buku extends CI_Model{
    private $table="buku";
    private $primary="kd_buku";

    function tampilData(){
        if(empty($order_column) || empty($order_type))
            $this->db->order_by($this->primary,'asc');
        else
            $this->db->order_by();
        return $this->db->get($this->table);
    }

    function jumlah(){
        return $this->db->count_all($this->table);
    }

    function cek($kode){
        $this->db->where($this->primary,$kode);
        $query=$this->db->get($this->table);

        return $query;
    }

    function simpan($coba){
        $this->db->insert($this->table,$coba);
        return $this->db->insert_id();
    }

    function update($kode,$jenis){
        $this->db->where($this->primary,$kode);
        $this->db->update($this->table,$jenis);
    }

    function hapus($kode){
        $this->db->where($this->primary,$kode);
        $this->db->delete($this->table);
    }

    function cari($cari){
        $this->db->like($this->primary,$cari);
        $this->db->or_like("nama",$cari);
        return $this->db->get($this->table);
    }
}
```



➔ File VIEW ➔ Buku | *index.php* | membuat halaman HTML tampil data

```
<a href="<?php echo site_url('buku/tambah');?>" class="btn btn-primary"><i class="glyphicon glyphicon-plus"></i> Tambah</a>
<hr>
<legend>Data Buku</legend>
<?php echo $message;?>
<Table class="table table-striped">
  <thead>
    <tr>
      <td>No.</td>
      <td>Kode Buku</td>
      <td>Judul</td>
      <td>Pengarang</td>
      <td>Jenis</td>
      <td colspan="2"></td>
    </tr>
  </thead>
  <?php $no=0; foreach($buku as $row ): $no++;?>
    <tr>
      <td><?php echo $no;?></td>
      <td><?php echo $row->kd_buku;?></td>
      <td><?php echo $row->judul;?></td>
      <td><?php echo $row->pengarang;?></td>
      <td><?php echo $row->jenis;?></td>
      <td><a href="<?php echo site_url('buku/edit/'. $row->kd_buku);?>"><i class="glyphicon glyphicon-edit"></i></a></td>
      <td><a href="#" class="hapus" kode="<?php echo $row->kd_buku;?>"><i class="glyphicon glyphicon-trash"></i></a></td>
    </tr>
  <?php endforeach;?>
</Table>

<script>
$(function(){
  $(".hapus").click(function(){
    var kode=$(this).attr("kode");

    $("#idhapus").val(kode);
    $("#myModal").modal("show");
  });

  $("#konfirmasi").click(function(){
    var kode=$("#idhapus").val();

    $.ajax({
      url:"<?php echo site_url('buku/hapus');?>",
      type:"POST",
      data:"kode="+kode,
      cache:false,
      success:function(html){
        location.href="<?php echo site_url('buku/index/delete_success');?>";
      }
    });
  });
});
</script>
```



➔ File VIEW ➔ Buku | *tambah.php* | membuat halaman HTML tampil data

```
<?php echo $message;?>
<form class="form-horizontal" action="" method="post" enctype="multipart/form-data">
  <div class="form-group">
    <label class="col-lg-2 control-label">Kode Buku</label>
    <div class="col-lg-5">
      <input type="text" name="kd_buku" class="form-control">
    </div>
  </div>
  <div class="form-group">
    <label class="col-lg-2 control-label">Judul</label>
    <div class="col-lg-5">
      <input type="text" name="judul" class="form-control">
    </div>
  </div>
  <div class="form-group">
    <label class="col-lg-2 control-label">Pengarang</label>
    <div class="col-lg-5">
      <input type="text" name="pengarang" class="form-control">
    </div>
  </div>
  <div class="form-group">
    <label class="col-lg-2 control-label">Klasifikasi buku</label>
    <div class="col-lg-5">
      <select name="jenis" class="form-control">
        <option></option>
        <option value="Tugas Akhir">Tugas Akhir</option>
        <option value="Skripsi">Skripsi</option>
        <option value="Tutorial">Tutorial</option>
        <option value="Science">Science</option>
      </select>
    </div>
  </div>
  <br>
  <br>
  <br>
  <br>
  <div class="form-group well">
    <button class="btn btn-primary"><i class="glyphicon glyphicon-hdd"></i> Simpan</button>
    <a href="<?php echo site_url('buku');?>" class="btn btn-default">Kembali</a>
  </div>
</form>
```



➔ File VIEW ➔ Buku | *edit.php* | membuat halaman HTML tampil data

```
<?php echo $message;?>
<form class="form-horizontal" action="" method="post" enctype="multipart/form-data">
  <div class="form-group">
    <label class="col-lg-2 control-label">Kode Buku</label>
    <div class="col-lg-5">
      <input type="text" name="kd_buku" class="form-control" value="<?php echo $bk['kd_buku'];?>" readonly="readonly">
    </div>
  </div>
  <div class="form-group">
    <label class="col-lg-2 control-label">Judul</label>
    <div class="col-lg-5">
      <input type="text" name="judul" class="form-control" value="<?php echo $bk['judul'];?>">
    </div>
  </div>
  <div class="form-group">
    <label class="col-lg-2 control-label">Pengarang</label>
    <div class="col-lg-5">
      <input type="text" name="pengarang" class="form-control" value="<?php echo $bk['pengarang'];?>">
    </div>
  </div>
  <div class="form-group">
    <label class="col-lg-2 control-label">Klasifikasi buku</label>
    <div class="col-lg-5">
      <select name="jenis" class="form-control">
        <option></option>
        <option value="Tugas Akhir">Tugas Akhir</option>
        <option value="Skripsi">Skripsi</option>
        <option value="Tutorial">Tutorial</option>
        <option value="Science">Science</option>
      </select>
    </div>
  </div>
  <br>
  <br>
  <br>
  <br>
  <div class="form-group well">
    <button class="btn btn-primary"><i class="glyphicon glyphicon-hdd"></i> Simpan</button>
    <a href="<?php echo site_url('buku');?>" class="btn btn-default">Kembali</a>
  </div>
</form>
```

(Tampil Data) <http://localhost/ci/index.php/buku>

Aplikasi Mahasiswa

localhost/ci/_index.php/buku

Tambah

Data Buku

No.	Kode Buku	Judul	Pengarang	Jenis
1	B001	Pemogrmman Terstruktur	Faisal Bisri	Tutorial
2	B002	Pengaruh OOP dalam permasalahan coding JAVA	Edmund Ahri	Skripsi

(Tambah) <http://localhost/ci/index.php/buku/tambah>

Aplikasi Mahasiswa

localhost/ci/_index.php/buku/tambah

Kode Buku

Judul

Pengarang

Klasifikasi buku

Simpan

Kembali

<http://localhost/ci/index.php/buku/edit/B001>

Aplikasi Mahasiswa

localhost/ci/_index.php/buku/edit/B001

Kode Buku

Judul

Pengarang

Klasifikasi buku

Simpan

Kembali

(Hapus) <http://localhost/ci/index.php/buku/#>

Aplikasi Mahasiswa

localhost/ci/_index.php/buku/#

Konfirmasi

Apakah anda yakin ingin menghapus data ini?

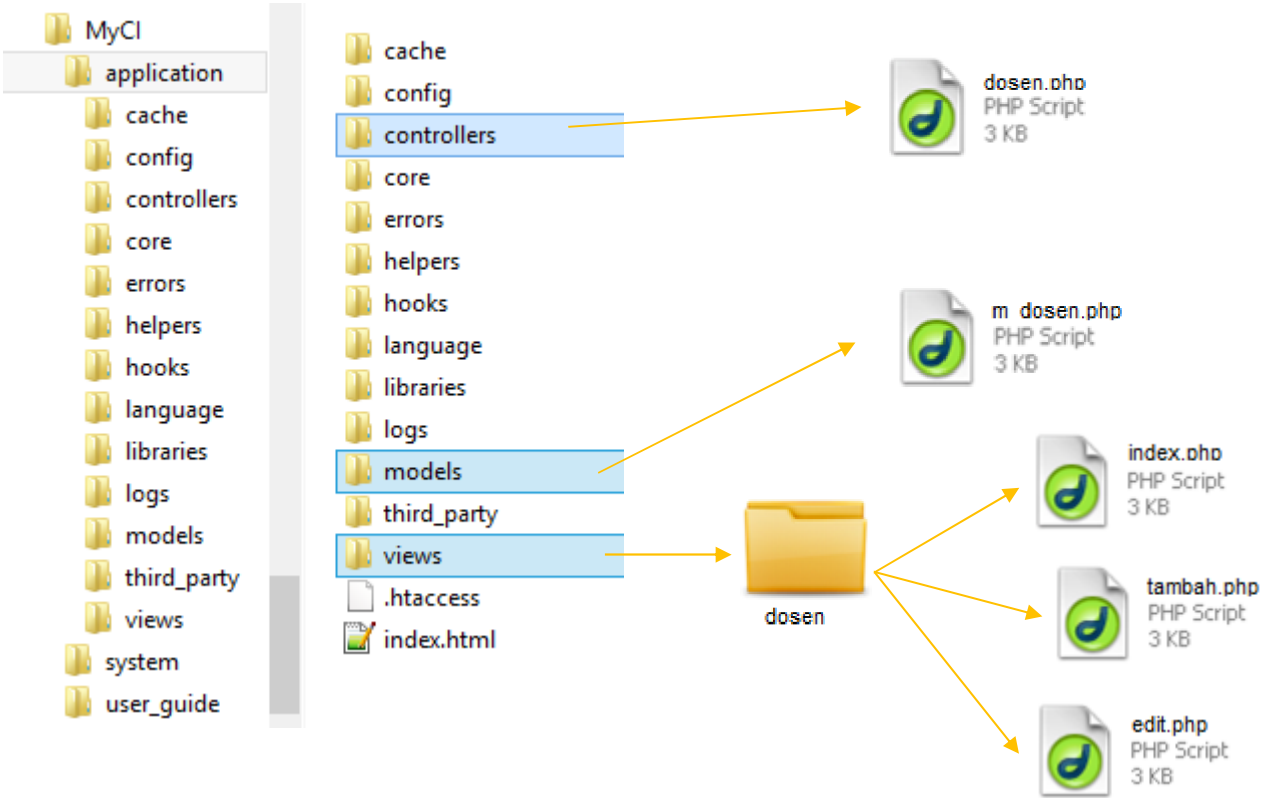
Close

Hapus

22



→ Schema Modul DOSEN



→ File Controller | *dosen.php* | membuat fungsi DML (create, read, update, delete)

```
<?php
class dosen extends CI_Controller{

function __construct(){
    parent::__construct();
    $this->load->library(array('template','pagination','form_validation','upload'));
    $this->load->model('m_dosen');
}

function index(){
    $data['dosen']=$this->m_dosen->tampilData()->result();
    $config['base_url']=site_url('dosen/index/');

    if($this->uri->segment(3)=="delete_success")
        $data['message']="<div class='alert alert-success'>Data berhasil dihapus</div>";
    else if($this->uri->segment(3)=="add_success")
        $data['message']="<div class='alert alert-success'>Data Berhasil disimpan</div>";
    else
        $data['message']="";
    $this->template->display('dosen/index',$data);
}
```



```

function tambah(){
    $nip=$this->input->post('nip');
    if($nip<>""){
        $cek=$this->m_dosen->cek($nip);
        if($cek->num_rows()>0){
            $data['message']="<div class='alert alert-warning'>NIP sudah digunakan</div>";
            $this->template->display('dosen/tambah',$data);
        }else{
            $isidata=array(
                'nip'=>$this->input->post('nip'),
                'nama_dosen'=>$this->input->post('nama_dosen'),
                'bidang'=>$this->input->post('bidang'),
                'telp'=>$this->input->post('telp')
            );
            $this->m_dosen->simpan($isidata);
            redirect('dosen/index/add_success');
        }
    }else{
        $data['message']="";
        $this->template->display('dosen/tambah',$data);
    }
}

function hapus(){
    $nip=$this->input->post('kode');
    $this->m_dosen->hapus($nip);
}

function edit($id){
    $nip=$this->input->post('nip');
    $nama_dosen=$this->input->post('nama_dosen');
    $bidang=$this->input->post('bidang');
    $telp=$this->input->post('telp');

    if($nip<>"" and $nama_dosen<>"" and $bidang<>"" and $telp<>""){

        $isidata=array(
            'nama_dosen'=>$this->input->post('nama_dosen'),
            'bidang'=>$this->input->post('bidang'),
            'telp'=>$this->input->post('telp')
        );

        $this->m_dosen->update($nip,$isidata);
        $data['message']="<div class='alert alert-success'>Data Berhasil diupdate</div>";
        $data['dsn']=$this->m_dosen->cek($id)->row_array();
        $this->template->display('dosen/edit',$data);
    }else{
        $data['dsn']=$this->m_dosen->cek($id)->row_array();
        $data['message']="";
        $this->template->display('dosen/edit',$data);
    }
}
}

```




➔ File Model | *m_dosen.php* | membuat fungsi DML (create, read, update, delete)

```
<?php
class m_dosen extends CI_Model{
    private $table="dosen";
    private $primary="nip";

    function tampilData(){
        if(empty($order_column) || empty($order_type))
            $this->db->order_by($this->primary,'asc');
        else
            $this->db->order_by();
        return $this->db->get($this->table);
    }

    function jumlah(){
        return $this->db->count_all($this->table);
    }

    function cek($kode){
        $this->db->where($this->primary,$kode);
        $query=$this->db->get($this->table);

        return $query;
    }

    function simpan($coba){
        $this->db->insert($this->table,$coba);
        return $this->db->insert_id();
    }

    function update($kode,$jenis){
        $this->db->where($this->primary,$kode);
        $this->db->update($this->table,$jenis);
    }

    function hapus($kode){
        $this->db->where($this->primary,$kode);
        $this->db->delete($this->table);
    }

    function cari($cari){
        $this->db->like($this->primary,$cari);
        $this->db->or_like("nama",$cari);
        return $this->db->get($this->table);
    }
}
```



➔ File VIEW ➔ Dosen | *index.php* | membuat halaman HTML tampil data

```
<a href="<?php echo site_url('dosen/tambah');?>" class="btn btn-primary"><i class="glyphicon glyphicon-plus"></i> Tambah</a>
<hr>
<legend>Data Dosen</legend>
<?php echo $message;?>
<Table class="table table-striped">
  <thead>
    <tr>
      <td>No.</td>
      <td>NIP Dosen</td>
      <td>Nama</td>
      <td>Bidang Keahlian</td>
      <td>Telepon</td>
      <td colspan="2"></td>
    </tr>
  </thead>
  <?php $no=0; foreach($dosen as $row ): $no++;?>
    <tr>
      <td><?php echo $no;?></td>
      <td><?php echo $row->nip;?></td>
      <td><?php echo $row->nama_dosen;?></td>
      <td><?php echo $row->bidang;?></td>
      <td><?php echo $row->telp;?></td>
      <td><a href="<?php echo site_url('dosen/edit/'.$row->nip);?>"><i class="glyphicon glyphicon-edit"></i></a></td>
      <td><a href="#" class="hapus" kode="<?php echo $row->nip;?>"><i class="glyphicon glyphicon-trash"></i></a></td>
    </tr>
  <?php endforeach;?>
</Table>

<script>
$(function(){
  $(".hapus").click(function(){
    var kode=$(this).attr("kode");

    $("#idhapus").val(kode);
    $("#myModal").modal("show");
  });

  $("#konfirmasi").click(function(){
    var kode=$("#idhapus").val();

    $.ajax({
      url:"<?php echo site_url('dosen/hapus');?>",
      type:"POST",
      data:"kode="+kode,
      cache:false,
      success:function(html){
        location.href="<?php echo site_url('dosen/index/delete_success');?>";
      }
    });
  });
});
</script>
```



→ File VIEW → Dosen| *tambah.php* | membuat halaman HTML tampil data

```
<?php echo $message;?>
<form class="form-horizontal" action="" method="post" enctype="multipart/form-data">
  <div class="form-group">
    <label class="col-lg-2 control-label">NIP</label>
    <div class="col-lg-5">
      <input type="text" name="nip" class="form-control">
    </div>
  </div>
  <div class="form-group">
    <label class="col-lg-2 control-label">Nama Dosen</label>
    <div class="col-lg-5">
      <input type="text" name="nama_dosen" class="form-control">
    </div>
  </div>
  <div class="form-group">
    <label class="col-lg-2 control-label">Bidang Keahlian</label>
    <div class="col-lg-5">
      <select name="bidang" class="form-control">
        <option></option>
        <option value="Ilmu Komputer">Ilmu Komputer</option>
        <option value="Ilmu Akuntansi Bisnis">Ilmu Akuntansi Bisnis</option>
        <option value="Ilmu Administrasi Kantor">Ilmu Administrasi Kantor</option>
        <option value="Ilmu Keperawatan">Ilmu Keperawatan</option>
      </select>
    </div>
  </div>
  <div class="form-group">
    <label class="col-lg-2 control-label">Telepon</label>
    <div class="col-lg-5">
      <input type="text" name="telp" class="form-control">
    </div>
  </div>
  <div class="form-group well">
    <button class="btn btn-primary"><i class="glyphicon glyphicon-hdd"></i> Simpan</button>
    <a href="<?php echo site_url('dosen');?>" class="btn btn-default">Kembali</a>
  </div>
</form>
```



➔ File VIEW ➔ Dosen | *edit.php* | membuat halaman HTML tampil data

```
<?php echo $message;?>
<form class="form-horizontal" action="" method="post" enctype="multipart/form-data">
  <div class="form-group">
    <label class="col-lg-2 control-label">NIP</label>
    <div class="col-lg-5">
      <input type="text" name="nip" class="form-control" value="<?php echo $dsn['nip'];?>" readonly="readonly">
    </div>
  </div>
  <div class="form-group">
    <label class="col-lg-2 control-label">Nama Dosen</label>
    <div class="col-lg-5">
      <input type="text" name="nama_dosen" class="form-control" value="<?php echo $dsn['nama_dosen'];?>">
    </div>
  </div>
  <div class="form-group">
    <label class="col-lg-2 control-label">Bidang Keahlian</label>
    <div class="col-lg-5">
      <select name="bidang" class="form-control">
        <option></option>
        <option value="Ilmu Komputer">Ilmu Komputer</option>
        <option value="Ilmu Akuntansi Bisnis">Ilmu Akuntansi Bisnis</option>
        <option value="Ilmu Administrasi Kantor">Ilmu Administrasi Kantor</option>
        <option value="Ilmu Keperawatan">Ilmu Keperawatan</option>
      </select>
    </div>
  </div>
  <br>
  <br>
  <br>
  <br>
  <div class="form-group">
    <label class="col-lg-2 control-label">Telepon</label>
    <div class="col-lg-5">
      <input type="text" name="telp" class="form-control" value="<?php echo $dsn['telp'];?>">
    </div>
  </div>
  <div class="form-group well">
    <button class="btn btn-primary"><i class="glyphicon glyphicon-hdd"></i> Simpan</button>
    <a href="<?php echo site_url('dosen');?>" class="btn btn-default">Kembali</a>
  </div>
</form>
```



(Tampil Data) <http://localhost/ci/index.php/dosen>

Aplikasi Mahasiswa

localhost/ci/index.php/dosen

+ Tambah

Data Dosen

No.	NIP Dosen	Nama	Bidang Keahlian	Telepon		
1	110145333	Rahmat Tri Yunandar	Ilmu Komputer	087666655		
2	130091355	Muhammad Iman	Ilmu Administrasi Kantor	0876551111		

(Tambah) <http://localhost/ci/index.php/dosen/tambah>

Aplikasi Mahasiswa

localhost/ci/index.php/dosen/tambah

NIP

Nama Dosen

Bidang Keahlian

Ilmu Komputer

Ilmu Akuntansi Bisnis

Ilmu Administrasi Kantor

Ilmu Keperawatan

Simpan

Kembali

<http://localhost/ci/index.php/dosen/edit/10185068>

Aplikasi Mahasiswa

localhost/ci/index.php/dosen/edit/130091355

NIP

Nama Dosen

Bidang Keahlian

Telepon

Simpan

Kembali

(Hapus) <http://localhost/ci/index.php/dosen/#>

Aplikasi Mahasiswa

localhost/ci/index.php/dosen/#

Konfirmasi

Apakah anda yakin ingin menghapus data ini?

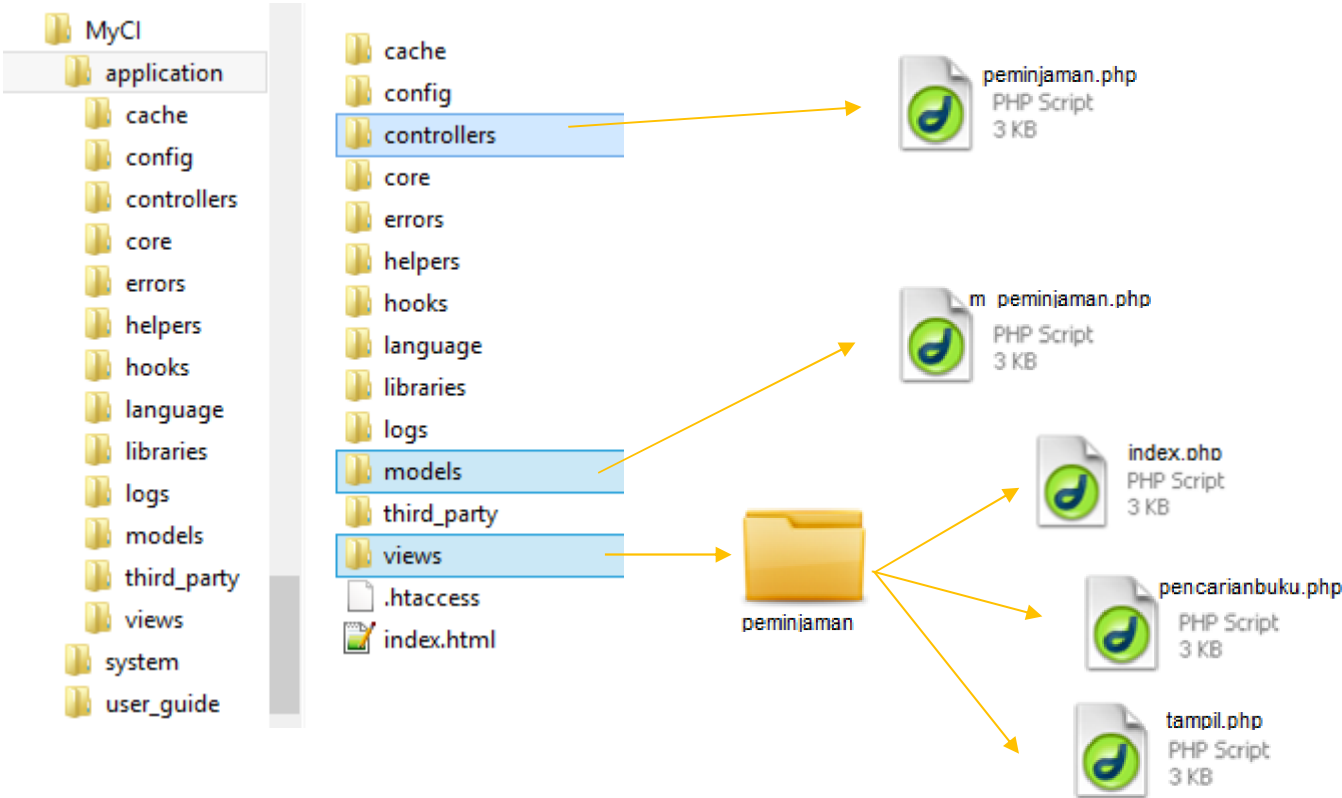
Close

Hapus

1	110145333	Rahmat Tri Yunandar	Ilmu Komputer	087666655		
2	130091355	Muhammad Iman	Ilmu Administrasi Kantor	0876551111		



➔ Schema Modul PEMINJAMAN



➔ File Controller | dosen.php | membuat fungsi DML (create, read, update, delete)

```
<?php
class peminjaman extends CI_Controller{

function __construct(){
    parent::__construct();
    $this->load->library(array('template','pagination','form_validation','upload'));
    $this->load->model('m_peminjaman');
}

function index(){
    $data['title']="Transaksi Peminjaman";
    $data['tanggalpinjam']=date('Y-m-d');
    $data['tanggalkembali'] = strtotime('+7 day',strtotime($data['tanggalpinjam']));
    $data['noauto']=$this->m_peminjaman->nootomatis();
    $data['anggota']=$this->m_peminjaman->getMhs()->result();
    $data['tanggalkembali'] = date('Y-m-d', $data['tanggalkembali']);
    $this->template->display('peminjaman/index',$data);
}
```



```

function tampil(){
    $data['tmp']=$this->m_peminjaman->tampilTmp()->result();
    $data['jumlahTmp']=$this->m_peminjaman->jumlahTmp();
    $this->load->view('peminjaman/tampil',$data);
}

function sukses(){

    $tmp=$this->m_peminjaman->tampilTmp()->result();
    foreach($tmp as $row){
        $info=array(
            'id_peminjaman'=>$this->input->post('nomer'),
            'nim'=>$this->input->post('nim'),
            'kd_buku'=>$row->kd_buku,
            'tanggal_pinjam'=>$this->input->post('pinjam'),
            'tanggal_kembali'=>$this->input->post('kembali'),
            'status'=>"N"
        );
        $this->m_peminjaman->simpan($info);

        //hapus data di temporary
        $this->m_peminjaman->hapusTmp($row->kd_buku);
    }
}

function cariMahasiswa(){
    $nim=$this->input->post('nim');
    $mhs=$this->m_peminjaman->cariMahasiswa($nim);
    if($mhs->num_rows()>0){
        $mhs=$mhs->row_array();
        echo $mhs['nama'];
    }
}

function cariBuku(){
    $kode=$this->input->post('kode');
    $buku=$this->m_peminjaman->cariBuku($kode);
    if($buku->num_rows()>0){
        $buku=$buku->row_array();
        echo $buku['judul']."|".$buku['pengarang'];
    }
}

function tambah(){
    $kode=$this->input->post('kode');
    $cek=$this->m_peminjaman->cekTmp($kode);
    if($cek->num_rows()<1){
        $isidata=array(
            'kd_buku'=>$this->input->post('kode'),
            'judul'=>$this->input->post('judul'),
            'pengarang'=>$this->input->post('pengarang')
        );
        $this->m_peminjaman->simpanTmp($isidata);
    }
}

```



```
function hapus(){
    $kode=$this->input->post('kode');
    $this->m_peminjaman->hapusTmp($kode);
}

function pencarianbuku(){
    $cari=$this->input->post('caribuku');
    $data['buku']=$this->m_peminjaman->pencarianbuku($cari)->result();
    $this->load->view('peminjaman/pencarianbuku',$data);
}

}
```




➔ File Model | *m_peminjaman.php* | membuat fungsi DML (create, read, update, delete)

```
<?php
class m_peminjaman extends CI_Model{
    private $table="peminjaman";

    function nootomatis(){
        $today=date('Ymd');
        $query=mysql_query("select max(id_peminjaman) as last from peminjaman where id_peminjaman like '$today%'");
        $data=mysql_fetch_array($query);
        $lastNoFaktur=$data['last'];

        $lastNoUrut=substr($lastNoFaktur,8,3);

        $nextNoUrut=$lastNoUrut+1;

        $nextNoTransaksi=$today.sprintf('%03s',$nextNoUrut);

        return $nextNoTransaksi;
    }

    function getMhs(){
        return $this->db->get("mahasiswa");
    }

    function cariMahasiswa($nim){
        $this->db->where("nim",$nim);
        return $this->db->get("mahasiswa");
    }

    function cariBuku($kode){
        $this->db->where("kd_buku",$kode);
        return $this->db->get("buku");
    }

    function simpanTmp($info){
        $this->db->insert("tmp",$info);
    }

    function tampilTmp(){
        return $this->db->get("tmp");
    }

    function cekTmp($kode){
        $this->db->where("kd_buku",$kode);
        return $this->db->get("tmp");
    }

    function jumlahTmp(){
        return $this->db->count_all("tmp");
    }

    function hapusTmp($kode){
        $this->db->where("kd_buku",$kode);
        $this->db->delete("tmp");
    }

    function simpan($info){
        $this->db->insert("peminjaman",$info);
    }

    function pencarianbuku($cari){
        $this->db->like("judul",$cari);
        return $this->db->get("buku");
    }

}
```



→ File VIEW → Peminjaman | *index.php* | membuat halaman HTML tampil data

```
<script>
$(function(){

    function loadData(args) {
        //code
        $("#tampil").load("<?php echo site_url('peminjaman/tampil');?>");
    }
    loadData();

    function kosong(args) {
        //code
        $("#kode").val("");
        $("#judul").val("");
        $("#pengarang").val("");
    }

    $("#nim").click(function(){
        var nim=$("#nim").val();

        $.ajax({
            url:"<?php echo site_url('peminjaman/cariMahasiswa');?>",
            type:"POST",
            data:"nim="+nim,
            cache:false,
            success:function(html){
                $("#nama").val(html);
            }
        })
    })

    $("#kode").keypress(function(){
        var keycode = (event.keyCode ? event.keyCode : event.which);

        if(keycode == '13'){
            var kode=$("#kode").val();

            $.ajax({
                url:"<?php echo site_url('peminjaman/cariBuku');?>",
                type:"POST",
                data:"kode="+kode,
                cache:false,
                success:function(msg){
                    data=msg.split("|");
                    if (data==o) {
                        alert("data tidak ditemukan");
                        $("#judul").val("");
                        $("#pengarang").val("");
                    }else{
                        $("#judul").val(data[0]);
                        $("#pengarang").val(data[1]);
                        $("#tambah").focus();
                    }
                }
            })
        }
    })
})
})
```



```

$("#tambah").click(function(){
    var kode=$("#kode").val();
    var judul=$("#judul").val();
    var pengarang=$("#pengarang").val();

    if (kode=="") {
        //code
        alert("Kode Buku Masih Kosong");
        return false;
    }else if (judul=="") {
        //code
        alert("Data tidak ditemukan");
        return false
    }else{
        $.ajax({
            url:"<?php echo site_url('peminjaman/tambah');?>",
            type:"POST",
            data:"kode="+kode+"&judul="+judul+"&pengarang="+pengarang,
            cache:false,
            success:function(html){
                loadData();
                kosong();
            }
        })
    }
})

$("#simpan").click(function(){
    var nomer=$("#no").val();
    var pinjam=$("#pinjam").val();
    var kembali=$("#kembali").val();
    var nim=$("#nim").val();
    var jumlah=parseInt($("#jumlahTmp").val(),10);

    if (nim=="") {
        alert("Pilih nim Siswa");
        return false;
    }else if (jumlah==0) {
        alert("pilih buku yang akan dipinjam");
        return false;
    }else{
        $.ajax({
            url:"<?php echo site_url('peminjaman/sukses');?>",
            type:"POST",
            data:"nomer="+nomer+"&pinjam="+pinjam+"&kembali="+kembali+"&nim="+nim+"&jumlah="+jumlah,
            cache:false,
            success:function(html){
                alert("Transaksi Peminjaman berhasil");
                location.reload();
            }
        })
    }
})

```



```
$("#hapus").live("click",function(){
    var kode=$(this).attr("kode");

    $.ajax({
        url:"<?php echo site_url('peminjaman/hapus');?>",
        type:"POST",
        data:"kode="+kode,
        cache:false,
        success:function(html){
            loadData();
        }
    });
});

$("#cari").click(function(){
    $("#myModalz").modal("show");
})

$("#caribuku").keyup(function(){
    var caribuku=$("#caribuku").val();

    $.ajax({
        url:"<?php echo site_url('peminjaman/pencarianbuku');?>",
        type:"POST",
        data:"caribuku="+caribuku,
        cache:false,
        success:function(html){
            $("#tampilbuku").html(html);
        }
    })
})

$("#tambah").live("click",function(){
    var kode=$(this).attr("kode");
    var judul=$(this).attr("judul");
    var pengarang=$(this).attr("pengarang");

    $("#kode").val(kode);
    $("#judul").val(judul);
    $("#pengarang").val(pengarang);

    $("#myModalz").modal("hide");
})
})
</script>
```



```

<legend>Transaksi Peminjaman</legend>
<div class="panel panel-default">
  <div class="panel-body">
    <form class="form-horizontal" action="<?php echo site_url('peminjaman/simpan');?>" method="post">
      <div class="col-md-6">
        <div class="form-group">
          <label class="col-lg-4 control-label">No. Transaksi</label>
          <div class="col-lg-7">
            <input type="text" id="no" name="no" class="form-control" value="<?php echo $noauto;?>" readonly="readonly">
          </div>
        </div>

        <div class="form-group">
          <label class="col-lg-4 control-label">Tgl Pinjam</label>
          <div class="col-lg-7">
            <input type="text" id="pinjam" name="pinjam" class="form-control" value="<?php echo $tanggalpinjam;?>"
readonly="readonly">
          </div>
        </div>

        <div class="form-group">
          <label class="col-lg-4 control-label">Tgl Kembali</label>
          <div class="col-lg-7">
            <input type="text" id="kembali" name="kembali" class="form-control" value="<?php echo $tanggalkembali;?>"
readonly="readonly">
          </div>
        </div>
      </div>
      <div class="col-md-6">
        <div class="form-group">
          <label class="col-lg-4 control-label">nim</label>
          <div class="col-lg-7">
            <select name="nim" class="form-control" id="nim">
              <option></option>
              <?php foreach($anggota as $anggota):?>
                <option value="<?php echo $anggota->nim;?>"><?php echo $anggota->nim;?></option>
              <?php endforeach;?>
            </select>
          </div>
        </div>

        <div class="form-group">
          <label class="col-lg-4 control-label">Nama Siswa</label>
          <div class="col-lg-7">
            <input type="text" name="nama" id="nama" class="form-control">
          </div>
        </div>
      </div>
    </form>
  </div>
</div>

<div class="panel panel-success">
  <div class="panel-heading">
    Data Buku
  </div>

```



```

<div class="panel-body">
  <div class="form-inline">
    <div class="form-group">
      <label>Kode Buku</label>
      <input type="text" class="form-control" placeholder="Kode Buku" id="kode">
    </div>
    <div class="form-group">
      <label class="sr-only">Judul Buku</label>
      <input type="text" class="form-control" placeholder="Judul Buku" id="judul" readonly="readonly">
    </div>
    <div class="form-group">
      <label class="sr-only">Pengarang</label>
      <input type="text" class="form-control" placeholder="Pengarang" id="pengarang" readonly="readonly">
    </div>
    <div class="form-group">
      <label class="sr-only">Tambah</label>
      <button id="tambah" class="btn btn-primary"><i class="glyphicon glyphicon-plus"></i></button>
    </div>
    <div class="form-group">
      <label class="sr-only">Cari</label>
      <button id="cari" class="btn btn-default"><i class="glyphicon glyphicon-search"></i></button>
    </div>
  </div>
</div>

<div id="tampil"></div>

<div class="panel-footer">
  <button id="simpan" class="btn btn-primary"><i class="glyphicon glyphicon-hdd"></i> Simpan</button>
</div>
</div>

<!-- Modal -->
<div class="modal fade" id="myModal2" tabindex="-1" role="dialog" aria-labelledby="myModalLabel" aria-hidden="true">
  <div class="modal-dialog">
    <div class="modal-content">
      <div class="modal-header">
        <button type="button" class="close" data-dismiss="modal" aria hidden="true">&times;</button>
        <h4 class="modal-title">Cari Buku</h4>
      </div>
      <div class="modal-body">
        <div class="form-horizontal">
          <label class="col-lg-3 control-label">Cari Nama Buku</label>
          <div class="col-lg-5">
            <input type="text" name="caribuku" id="caribuku" class="form-control">
          </div>
        </div>

        <div id="tampilbuku"></div>
      </div>
      <div class="modal-footer">
        <button type="button" class="btn btn-default" data-dismiss="modal">Close</button>
        <button type="button" class="btn btn-primary" id="konfirmasi">Hapus</button>
      </div>
    </div><!-- /.modal-content -->
  </div><!-- /.modal-dialog -->
</div><!-- /.modal -->

```



➔ File VIEW ➔ Peminjaman| *pencarianbuku.php* | membuat halaman HTML tampil data

```
<table class="table table-striped">
  <thead>
    <tr>
      <td>Kode Buku</td>
      <td>Judul Buku</td>
      <td>Pengarang</td>
      <td></td>
    </tr>
  </thead>
  <?php foreach($buku as $tmp):?>
    <tr>
      <td><?php echo $tmp->kd_buku;?></td>
      <td><?php echo $tmp->judul;?></td>
      <td><?php echo $tmp->pengarang;?></td>
      <td><a href="#" class="tambah" kode="<?php echo $tmp->kd_buku;?>"
        judul="<?php echo $tmp->judul;?>"
        pengarang="<?php echo $tmp->pengarang;?>"><i class="glyphicon glyphicon-plus"></i></a></td>
    </tr>
  <?php endforeach;?>
</table>
```

➔ File VIEW ➔ Peminjaman| *tampil.php* | membuat halaman HTML tampil data

```
<table class="table table-striped">
  <thead>
    <tr>
      <td>Kode Buku</td>
      <td>Judul Buku</td>
      <td>Pengarang</td>
      <td></td>
    </tr>
  </thead>
  <?php foreach($tmp as $tmp):?>
    <tr>
      <td><?php echo $tmp->kd_buku;?></td>
      <td><?php echo $tmp->judul;?></td>
      <td><?php echo $tmp->pengarang;?></td>
      <td><a href="#" class="hapus" kode="<?php echo $tmp->kd_buku;?>"><i class="glyphicon glyphicon-trash"></i></a></td>
    </tr>
  <?php endforeach;?>
  <tr>
    <td colspan="2">Total Buku</td>
    <td colspan="2"><input type="text" id="jumlahTmp" readonly="readonly" value="<?php echo $jumlahTmp;?>" class="form-control"></td>
  </tr>
</table>
```



(Transaksi Peminjaman) http://localhost/ci/index.php/peminjaman

Aplikasi Mahasiswa

localhost/ci/index.php/peminjaman

Transaksi Peminjaman

No. Transaksi

20170410001

nim

10185068

Tgl Pinjam

2017-04-10

Nama Siswa

Jamal Apriadi

Tgl Kembali

2017-04-17

Data Buku

Kode Buku

Kode Buku

Judul Buku

Pengarang

+

Q

Kode Buku

Judul Buku

Pengarang

Total Buku

0

Simpan

Aplikasi Mahasiswa

localhost/ci/index.php/peminjaman

Transaksi Peminjaman

No. Transaksi

20170410001

Tgl Pinjam

2017-04-10

Tgl Kembali

2017-04-17

Data Buku

Kode Buku

B001

Judul Buku

Pengarang

+

Q

Kode Buku

Judul Buku

Pengarang

Total Buku

0

Simpan

Cari Buku

Cari Nama Buku

oop

Kode Buku

Judul Buku

Pengarang

B002

Pengaruh OOP dalam permasalahan coding JAVA

Edmund Ahri

+

Close

Hapus

Aplikasi Mahasiswa

localhost/ci/index.php/peminjaman

Transaksi Peminjaman

No. Transaksi

20170410001

nim

10185068

Tgl Pinjam

2017-04-10

Nama Siswa

Jamal Apriadi

Tgl Kembali

2017-04-17

Data Buku

Kode Buku

B002

Pengaruh OOP dalam pen

Edmund Ahri

+

Q

Kode Buku

Judul Buku

Pengarang

B002

Pengaruh OOP dalam permasalahan coding JAVA

Edmund Ahri

Total Buku

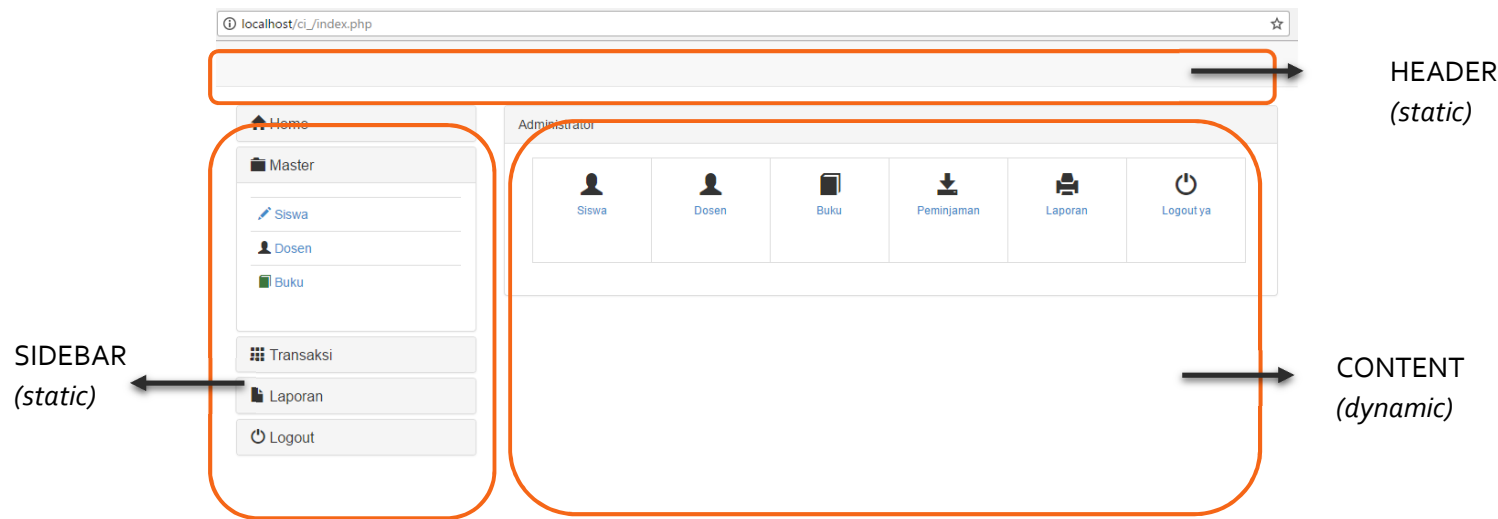
1

Simpan



Menu / Dashboard pada Bootstrap

Dalam membuat menu / dashboard pada penerapannya menggunakan bootstrap di aplikasi kali ini, terdapat beberapa bagian (sisi), yaitu :



Dari design tampilan web diatas, maka dalam pembuatannya dilakukan pembagian code halaman masing-masing yang bersifat static dan dynamic, kemudian di disatukan pada bagian layout display template. Untuk lebih jelas dan lengkapnya ikuti panduan dibawah ini :

1. Edit class template di → `\application\libraries\template.php`.

```
<?php
class Template{
    protected $_CI;
    function __construct(){
        $this->_CI=&get_instance();
    }

    function display($template,$data=null){
        $data['_content']=$this->_CI->load->view($template,$data,true);
        //$data['_header']=$this->_CI->load->view('template/header',$data,true);
        $data['_sidebar']=$this->_CI->load->view('template/sidebar',$data,true);
        $this->_CI->load->view('/template.php',$data);
    }
}
```

Jika diperhatikan setiap ada perintah “`$this->template->display('...');`”, maka berdasarkan load (pemanggilan) `__construct` di setiap class controller, akan mendefinisikan method `display` diatas. Method tersebut memiliki parameter passing secara dynamic yaitu `$template`, yang dari parameter tsb setiap penggunaannya ada didefinikan untuk “`$data['_content']`”. Nah sedangkan untuk bagian Header dan Sidebar didefinikan berdasarkan halaman static yaitu mengarah pada → `\application\views\template\...`

2. Buat static HTML header dan sidebar di → `\application\views\template\...`
→ `Header.php`

```
<div class="navbar navbar-default">
    <div class="container">
        <div class="navbar-header">
            <button type="button" class="navbar-toggle" data-toggle="collapse" data-target=".navbar-collapse">
                <span class="icon-bar"></span>
                <span class="icon-bar"></span>
                <span class="icon-bar"></span>
            </button>
            <a class="navbar-brand" href="<?php echo site_url('dashboard');?>">Perpustakaan</a>
        </div>
    </div>
</div>
```



➔ Sidebar.php

```
<div class="panel-group" id="accordion">
    <div class="panel panel-default">
        <div class="panel-heading">
            <h4 class="panel-title">
                <a href="<?php echo site_url('');?>"><span class="glyphicon glyphicon-home">
                </span> Home</a>
            </h4>
        </div>
    </div>
    <div class="panel panel-default">
        <div class="panel-heading">
            <h4 class="panel-title">
                <a data-toggle="collapse" data-parent="#accordion" href="#collapseOne"><span class="glyphicon
glyphicon-folder-close">
                </span> Master</a>
            </h4>
        </div>
        <div id="collapseOne" class="panel-collapse collapse in">
            <div class="panel-body">
                <table class="table">
                    <tr>
                        <td>
                            <span class="glyphicon glyphicon-pencil text-primary"></span> <a href="<?php echo
site_url('mahasiswa');?>">Siswa</a>
                        </td>
                    </tr>
                    <tr>
                        <td>
                            <span class="glyphicon glyphicon-user"></span> <a href="<?php echo site_url('dosen');?>">Dosen</a>
                        </td>
                    </tr>
                    <tr>
                        <td>
                            <span class="glyphicon glyphicon-book text-success"></span> <a href="<?php echo
site_url('buku');?>">Buku</a>
                        </td>
                    </tr>
                </table>
            </div>
        </div>
    </div>
    <div class="panel panel-default">
        <div class="panel-heading">
            <h4 class="panel-title">
                <a data-toggle="collapse" data-parent="#accordion" href="#collapseTwo"><span class="glyphicon glyphicon-th">
                </span> Transaksi</a>
            </h4>
        </div>
        <div id="collapseTwo" class="panel-collapse collapse">
            <div class="panel-body">
                <table class="table">
                    <tr>
                        <td>
                            <span class="glyphicon glyphicon-saved"></span><a href="<?php echo site_url('peminjaman');?>">
Peminjaman</a></span>
                        </td>
                    </tr>
                    <tr>
                        <td>
                            <span class="glyphicon glyphicon-save"></span> <a href="<?php echo site_url('pengembalian');?>">
Pengembalian</a>
                        </td>
                    </tr>
                </table>
            </div>
        </div>
    </div>
</div>
```



```

        </table>
    </div>
</div>
</div>
<div class="panel panel-default">
    <div class="panel-heading">
        <h4 class="panel-title">
            <a data-toggle="collapse" data-parent="#accordion" href="#collapseFour"><span class="glyphicon glyphicon-
file">
                </span> Laporan</a>
            </h4>
        </div>
        <div id="collapseFour" class="panel-collapse collapse">
            <div class="panel-body">
                <table class="table">
                    <tr>
                        <td>
                            <span class="glyphicon glyphicon-user"></span><a href="<?php echo site_url('laporan/anggota');?>"> Data
Anggota</a>
                        </td>
                    </tr>
                    <tr>
                        <td>
                            <span class="glyphicon glyphicon-book"></span><a href="<?php echo site_url('laporan/buku');?>"> Data
Buku</a>
                        </td>
                    </tr>
                    <tr>
                        <td>
                            <span class="glyphicon glyphicon-tasks"></span><a href="<?php echo site_url('laporan/peminjaman');?>">
Data Peminjaman</a>
                        </td>
                    </tr>
                    <tr>
                        <td>
                            <span class="glyphicon glyphicon-list-alt"></span><a href="<?php echo site_url('laporan/pengembalian');?>">
Data Pengembalian</a>
                        </td>
                    </tr>
                </table>
            </div>
        </div>
</div>

<div class="panel panel-default">
    <div class="panel-heading">
        <h4 class="panel-title">
            <a href="#"><span class="glyphicon glyphicon-off">
                </span> Logout</a>
            </h4>
        </div>
    </div>
</div>
</div>
```



3. Buat template design web (berfungsi menggabungkan bagian-bagian layout web) →
 \application\views\template.php

```
<!doctype html>
<html>
  <head>
    <title>Aplikasi Mahasiswa</title>
    <link href="<?php echo base_url('assets/css/bootstrap.min.css');?>" rel="stylesheet">
    <link href="<?php echo base_url('assets/font-awesome/css/font-awesome.css');?>" rel="stylesheet">

    <link href="<?php echo base_url('assets/css/plugins/morris/morris-0.4.3.min.css');?>" rel="stylesheet">
    <link href="<?php echo base_url('assets/css/plugins/timeline/timeline.css');?>" rel="stylesheet">
    <link href="<?php echo base_url('assets/css/datepicker.css');?>" rel="stylesheet">

    <script src="<?php echo base_url('assets/js/jquery-1.8.3.min.js');?>"></script>
    <script src="<?php echo base_url('assets/js/bootstrap.js');?>"></script>
    <script src="<?php echo base_url('assets/js/tinymce/tinymce.min.js');?>"></script>
    <script>
      tinymce.init({selector:'textarea'});

      $(function(){
        $("#tanggal1").datepicker({
          format:'yyyy-mm-dd'
        });

        $("#tanggal2").datepicker({
          format:'yyyy-mm-dd'
        });

        $("#tanggal").datepicker({
          format:'yyyy-mm-dd'
        });
      })
    </script>
  </head>
  <body>
    <div class="navbar navbar-default">
      <div class="container">
        <div class="navbar-header">
          <button type="button" class="navbar-toggle" data-toggle="collapse" data-target=".navbar-collapse">
            <span class="icon-bar"></span>
            <span class="icon-bar"></span>
            <span class="icon-bar"></span>
          </button>
        </div>
      </div>
    </div>

    <div class="container">
      <div class="row">

        <div class="col-md-3">
          <?php echo $_sidebar;?>
        </div>

        <div class="col-md-9">
          <?php echo $_content;?>
        </div>
      </div>
    </div>
```



```

<!-- Modal -->
<div class="modal fade" id="myModal" tabindex="-1" role="dialog" aria-labelledby="myModalLabel" aria-hidden="true">
  <div class="modal-dialog">
    <div class="modal-content">
      <div class="modal-header">
        <button type="button" class="close" data-dismiss="modal" aria-hidden="true">&times;</button>
        <h4 class="modal-title">Konfirmasi</h4>
      </div>
      <div class="modal-body">
        <input type="hidden" name="idhapus" id="idhapus">
        <p>Apakah anda yakin ingin menghapus data ini?</p>
      </div>
      <div class="modal-footer">
        <button type="button" class="btn btn-default" data-dismiss="modal">Close</button>
        <button type="button" class="btn btn-primary" id="konfirmasi">Hapus</button>
      </div>
    </div><!-- /.modal-content -->
  </div><!-- /.modal-dialog -->
</div><!-- /.modal -->

<!-- Core Scripts - Include with every page -->
<script src="<?php echo base_url('assets/js/holder.js');?>"></script>
<script src="<?php echo base_url('assets/js/bootstrap-datepicker.js');?>"></script>
<script src="<?php echo base_url('assets/js/application.js');?>"></script>
<script src="<?php echo base_url('assets/js/bootstrap.min.js');?>"></script>
<script src="<?php echo base_url('assets/js/plugins/metisMenu/jquery.metisMenu.js');?>"></script>
<script src="<?php echo base_url('assets/js/plugins/morris/raphael-2.1.0.min.js');?>"></script>
<script src="<?php echo base_url('assets/js/plugins/morris/morris.js');?>"></script>
<script src="<?php echo base_url('assets/js/sb-admin.js');?>"></script>
<script src="<?php echo base_url('assets/js/demo/dashboard-demo.js');?>"></script>
</body>
</html>

```

4. Setting default index web di → \application\config\routes.php

```

$route['default_controller'] = "menu";
$route['404_override'] = "";

```

5. Buat Menu Controller di → \application\controller\menu.php

```

<?php if ( ! defined('BASEPATH')) exit('No direct script access allowed');

class Menu extends CI_Controller {
    function __construct(){
        parent::__construct();
        $this->load->library(array('template','pagination','form_validation','upload'));
    }

    public function index()
    {
        $this->template->display('menu/index');
    }
}

```



6. Buat Menu View di → \application\views\menu\index.php

```
<style>
.glyphicons {
    padding-left: 0;
    padding-bottom: 1px;
    margin-bottom: 20px;
    list-style: none;
    overflow: hidden;
}

.glyphicons li {
    float: left;
    width: 11.5%;
    height: 115px;
    padding: 10px;
    margin: 0 -1px -1px 0;
    font-size: 12px;
    line-height: 1.4;
    text-align: center;
    border: 1px solid #ddd;
}

.glyphicons .glyphicon {
    margin-top: 5px;
    margin-bottom: 10px;
    font-size: 24px;
    display: block;
    text-align: center;
}
</style>
<div class="panel panel-default">
    <div class="panel-heading">
        Administrator
    </div>
    <div class="panel-body">
        <div class="container">
            <ul class="glyphicons">
                <li>
                    <span class="glyphicon glyphicon-user"></span>
                    <a href="<?php echo site_url('mahasiswa');?>">Siswa</a> <!-- site_url() memanggail controller -> anggota -->
                </li>
                <li>
                    <span class="glyphicon glyphicon-user"></span>
                    <a href="<?php echo site_url('dosen');?>">Dosen</a> <!-- site_url() memanggail controller -> anggota -->
                </li>
                <li>
                    <span class="glyphicon glyphicon-book"></span>
                    <a href="<?php echo site_url('buku');?>">Buku</a>
                </li>
                <li>
                    <span class="glyphicon glyphicon-save"></span>
                    <a href="<?php echo site_url('peminjaman');?>">Peminjaman</a>
                </li>
                <li>
                    <span class="glyphicon glyphicon-print"></span>
                    <a href="<?php echo site_url('laporan/peminjaman');?>">Laporan</a>
                </li>
            </ul>
        </div>
    </div>
</div>
```



```
<li>
  <span class="glyphicon glyphicon-off"></span>
  <a href="#">Logout ya</a>
</li>
</ul>
</div>
</div>
</div>
```

Referensi

- ilmukomputer.com
 - <http://ilmukomputer.org/2012/07/29/aplikasi-crud-dengan-codeigniter/>
- Codeigniter user guide
 - https://codeigniter.com/user_guide/

