

PEMROGRAMAN WEB LANJUT

Jobsheet-2: Read dan Input Database serta Form Validation



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Praktikum – Bagian 1: Menampilkan data dari *database* menggunakan codeigniter

1	<p>Isi Controller Mahasiswa</p> <pre>class Mahasiswa extends CI_Controller { public function index() { // Load Database \$this->load->database(); \$data['title'] = "List Mahasiswa"; \$this->load->view('template/header', \$data); \$this->load->view('mahasiswa/index'); \$this->load->view('template/footer'); } }</pre>
2	<p>Constructor pada Controller Mahasiswa</p> <pre>// constructor public function __construct() { parent::__construct(); \$this->load->database(); // Load Database }</pre>
3	<p>Mengubah array pada autoload</p> <pre>\$autoload['libraries'] = array('database');</pre>

4 Konfigurasi database

```
$db['default'] = array(
    'dsn' => '',
    'hostname' => 'localhost',
    'username' => 'root',
    'password' => 'mysql',
    'database' => 'kuliah_CI',
    'dbdriver' => 'mysqli',
    'dbprefix' => '',
    'pconnect' => FALSE,
    'db_debug' => (ENVIRONMENT !== 'production'),
    'cache_on' => FALSE,
    'cachedir' => '',
    'char_set' => 'utf8',
    'dbcollat' => 'utf8_general_ci',
    'swap_pre' => '',
    'encrypt' => FALSE,
    'compress' => FALSE,
    'stricton' => FALSE,
    'failover' => array(),
    'save_queries' => TRUE
);
```

5 Struktur Tabel Mahasiswa

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/> 1	id	int(30)			No	None		AUTO_INCREMENT	Change Drop
<input type="checkbox"/> 2	nama	varchar(100)	utf8mb4_general_ci		No	None			Change Drop
<input type="checkbox"/> 3	nim	varchar(50)	utf8mb4_general_ci		No	None			Change Drop
<input type="checkbox"/> 4	email	varchar(50)	utf8mb4_general_ci		No	None			Change Drop
<input type="checkbox"/> 5	jurusan	varchar(50)	utf8mb4_general_ci		No	None			Change Drop

6 Isi table Mahasiswa

		id	nama	nim	email	jurusan
<input type="checkbox"/>	Edit Copy Delete	1	dina	1002345100	dina@gmail.com	kimia
<input type="checkbox"/>	Edit Copy Delete	2	dika	1002345101	dika@gmail.com	informatika
<input type="checkbox"/>	Edit Copy Delete	3	soni	1002345102	soni@gmail.com	mesin

7	<div>Fungsi getAllMahasiswa</div> <pre>public function getAllMahasiswa() { \$query = \$this->db->get('mahasiswa'); return \$query->result_array(); }</pre>
8	<div>Isi fungsi index pada Controller Mahasiswa</div> <pre>public function index() { \$data['title'] = "List Mahasasiswa"; \$data['mahasiswa'] = \$this->mahasiswa_model->getAllMahasiswa(); \$this->load->view('template/header', \$data); \$this->load->view('mahasiswa/index', \$data); \$this->load->view('template/footer'); }</pre>
9	<div>Load terlebih dahulu model</div> <pre>\$this->load->model('mahasiswa_model');</pre>
10	<div>Akan tampil dalam var_dump()</div> <pre>array(3) ([0] => array(5) (["id"] => string(1) "1" ["nama"] => string(4) "dina" ["nim"] => string(10) "1002345100" ["email"] => string(14) "dina@gmail.com" ["jurusan"] => string(5) "kimia") [1] => array(5) (["id"] => string(1) "2" ["nama"] => string(4) "dika" ["nim"] => string(10) "1002345101" ["email"] => string(14) "dika@gmail.com" ["jurusan"] => string(11) "informatika") [2] => array(5) (["id"] => string(1) "3" ["nama"] => string(4) "soni" ["nim"] => string(10) "1002345102" ["email"] => string(14) "soni@gmail.com" ["jurusan"] => string(5) "mesin"))</pre>
11	<div>Index pada view mahasiswa</div> <pre><h2>Daftar Mahasiswa</h2> <ul class="list-group"> <?php foreach (\$mahasiswa as \$mhs):?> <li class="list-group-item"><?= \$mhs['nama'];?> <?php endforeach; ?> </pre>
12	<div>Hasil</div> <div>Daftar Mahasiswa</div> <div><div>dina</div><div>dika</div><div>soni</div></div>

13	<p>List dalam header</p> <pre><li class="nav-item"> <a class="nav-link" href="<?php base_url();?>">Home <li class="nav-item"> <a class="nav-link" href="<?php base_url();?>mahasiswa">Data Mahasiswa <li class="nav-item"> <a class="nav-link" href="<?php base_url();?>">About</pre>
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Praktikum – Bagian 2: Membuat Form Input dan Menambahkan Form Validation

1	<p>Membuat tombol pada index</p> <pre><div class="row mt-4"> <div class="col-md-6"> Tambah Data </div> </div></pre>
2	<p>Menambahkan fungsi tambah pada Mahasiswa</p> <pre>public function tambah() { \$data['title'] = "Form Menambahkan Data Mahasiswa"; \$this->load->view('template/header', \$data); \$this->load->view('mahasiswa/tambah', \$data); \$this->load->view('template/footer'); }</pre>

```
<div class="card-header">
  Form Tambah Data Mahasiswa
</div>
<div class="card-body">
  <form action="" method="post">
    <div class="form-group">
      <label for="nama">Nama</label>
      <input type="text" id="nama" class="form-control">
    </div>
    <div class="form-group">
      <label for="nim">NIM</label>
      <input type="number" id="nim" class="form-control">
    </div>
    <div class="form-group">
      <label for="email">Email</label>
      <input type="text" id="email" class="form-control">
    </div>
    <div class="form-group">
      <label for="jurusan">Jurusan</label>
      <select id="jurusan" class="form-control" name="jurusan">
        <option selected>-----</option>
        <option value="kimia">Kimia</option>
        <option value="informatika">Informatika</option>
        <option value="mesin">Mesin</option>
      </select>
    </div>
    <button type="submit" name="submit" class="btn btn-primary f
  </form>
```

4

Hasil Tampilan pada Mahasiswa/tambah

Form Tambah Data Mahasiswa

Nama

NIM

Email

Jurusan

-----▼

Submit

5

Fungsi tambah pada Controller Mahasiswa

```
public function tambah()
{
    $data['title'] = "Form Menambahkan Data Mahasiswa";

    if ($this->form_validation->run() == FALSE){
        $this->load->view('template/header', $data);
        $this->load->view('mahasiswa/tambah', $data);
        $this->load->view('template/footer');
    } else {
        echo "Data berhasil ditambah";
    }
}
```

6

Tampilan ketika nama tidak diisi

Form Tambah Data Mahasiswa

The Nama field is required.

Nama

NIM

Email

Jurusan

Submit

7	<p>Tampilan data berhasil ditambah</p> <p>Data berhasil ditambah</p>
8	<p>Penambahan Alert</p> <div><p>Form Tambah Data Mahasiswa</p><div><p>The Nama field is required.</p><p>Nama</p><input type="text"/><p>NIM</p><input type="text"/><p>Email</p><input type="text"/><p>Jurusan</p><div>-----▼</div><p>Submit</p></div></div>

9 Full Alert: nim hanya angka, email harus sesuai format

Form Tambah Data Mahasiswa

The Nama field is required.

The NIM field is required.

The Email field is required.

Nama

NIM

2

Email

ss

Jurusan

-----▼

Submit

Praktikum – Bagian 3: Menambahkan Data ke Database / Insert Data

1	Isi dari Controller Mahasiswa <pre>public function tambah() { \$data['title'] = "Form Menambahkan Data Mahasiswa"; \$this->form_validation->set_rules('nama', 'Nama', 'required'); \$this->form_validation->set_rules('nim', 'NIM', 'required numeric'); \$this->form_validation->set_rules('email', 'Email', 'required valid_email'); if (\$this->form_validation->run() == FALSE){ \$this->load->view('template/header', \$data); \$this->load->view('mahasiswa/tambah', \$data); \$this->load->view('template/footer'); } else { \$this->mahasiswa_model->tambahdatamhs(); echo "Data berhasil ditambah"; redirect('mahasiswa','refresh'); } }</pre>
2	Fungsi insert pada Model <pre>public function tambahdatamhs() { \$data = ["nama" => \$this->input->post('nama',true), "nim" => \$this->input->post('nim',true), "email" => \$this->input->post('email', true), "jurusan" => \$this->input->post('jurusan', true)]; \$this->db->insert('mahasiswa',\$data); }</pre>

3

Hasil akhir, data sudah dapat ditambah

Daftar Mahasiswa

dina
dika
soni
unero

= *SELESAI* =