

**PRACTICUM REPORT**  
**ADVANCED WEB PROGRAMMING**  
**MIDTERM EXAM**



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**INFORMATICS ENGINEERING STUDY PROGRAM**  
**DEPARTMENT OF INFORMATION TECHNOLOGY**  
**STATE POLYTECHNIC OF MALANG**

**2020**

## 1. REST Client

Source Code:

controller/home.php

```
1 <?php
2
3 defined('BASEPATH') OR exit('No direct script access allowed');
4
5 class Home extends CI_Controller {
6
7     public function index()
8     {
9         $data['title']='Home';
1        //$data['name']=$name;
0        $this->load->view('template/header',$data);
1        //echo "Selamat Datang di Halaman Home";
1        $this->load->view('home/index',$data);
1        $this->load->view('template/footer');
2        $this->load->library('session');
1
3        //validasi level
1        if($this->session->userdata('level') != "admin"){
4            redirect('login','refresh');
1        }
5    }
1
6 }
1
7 /* End of file Controllername.php */
1
8 ?>
```

# controller/login.php

```
1 <?php
2
3 defined('BASEPATH') OR exit('No direct script access allowed');
4
5 class login extends CI_Controller {
6     public function __construct()
7     {
8         parent::__construct();
9         $this->load->helper('url');
1        $this->load->helper('form');
0        $this->load->model('login_model');
1        //$this->load->library('session');
1    }
1
2    public function index()
1    {
3        $data['title']='Login';
1        $this->load->view('template/header_login', $data);
4        $this->load->view('login/index');
1        $this->load->view('template/footer');
5
1    }
6
1    public function proses_login(){
7        $username=htmlspecialchars($this->input->post('uname1'));
1        $password=htmlspecialchars($this->input->post('pwd1'));
8
1        $ceklogin= $this->login_model->login($username, $password);
9
2        if($ceklogin){
0            foreach($ceklogin as $row);
2                $this->session->set_userdata('user', $row->username);
1                $this->session->set_userdata('level', $row->level);
2
2                //var_dump($row)
2                if($this->session->userdata('level')== 'admin'){
3                    redirect('mahasiswa/index');
2                }elseif ($this->session->userdata('level')== 'user') {
4                    redirect('user');
2                }else{
5                    redirect('login/index','refresh');
2                }
6            }
2        else{
7            $data['pesan']='username dan password anda salah';
2            $data['title']='Login';
8            $this->load->view('template/header_login', $data);
2            $this->load->view('login/index', $data);
9            $this->load->view('template/footer');
```

```
3      //redirect('login/index','refresh');
0    }
3  }
1
3  public function logout(){
2      $this->session->sess_destroy();
3      redirect('login','refresh');
3
3  }
4 }
3
5 /* End of file login.php */
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| controller/mahasiswa.php |  |
| 1                        | <?php  |
| 2                        | defined('BASEPATH') OR exit('No direct script access allowed');      |
| 3                        |  |
| 4                        | class mahasiswa extends CI_Controller {                              |
| 5                        |  |
| 6                        | //fungsi yang akan dijalankan saat classnya diinstansiasi            |
| 7                        | public function __construct()  |
| 8                        | {  |
| 9                        | //digunakan untuk menjalankan fungsi construct pada class parent(ci_ |
| 1                        | controller)  |
| 0                        | parent::__construct();   |
| 1                        | \$this->load->model('mahasiswa_model');                              |
| 1                        | \$this->load->library('form_validation');                            |
| 1                        |  |
| 2                        | //validasi level   |
| 1                        | if(\$this->session->userdata('level') != "admin"){                   |
| 3                        | redirect('login','refresh');   |
| 1                        | }  |
| 4                        | }  |
| 1                        |  |
| 5                        | public function index()  |
| 1                        | {  |
| 6                        | //modul for load database  |
| 1                        | //\$this->load->database();  |
| 7                        | \$data['title']='List Mahasiswa';                                    |
| 1                        | \$data['mahasiswa']=\$this->mahasiswa_model->getAllmahasiswa();      |
| 8                        | if(\$this->input->post('keyword')){                                  |
| 1                        | #code...   |
| 9                        | \$data['mahasiswa']=\$this->mahasiswa_model->cariDataMahasiswa();    |
| 2                        | }  |
| 0                        | \$this->load->view('template/header', \$data);                       |
| 2                        | \$this->load->view('mahasiswa/index', \$data);                       |
| 1                        | \$this->load->view('template/footer');                               |
| 2                        | }  |
| 2                        |  |

```

2 public function tambah()
3 {
2     $data['title']='Form Menambahkan Data Mahasiswa';
4     $data['majors']=['Teknik Informatika', 'Teknik Kimia', 'Teknik Indus
2 tri', 'Teknik Mesin', 'Teknik Sipil'];
5     $this->form_validation-
2 >set_rules('student_name', 'Name', 'required');
6     $this->form_validation->set_rules('nim', 'Nim', 'required|numeric');
2     $this->form_validation-
7 >set_rules('birthplace', 'Birthplace', 'required');
2     $this->form_validation-
8 >set_rules('birthdate', 'Birthdate', 'required|date');
2     $this->form_validation->set_rules('address', 'Address', 'required');
9
3     if($this->form_validation->run() == FALSE)
0     {
3         #code...
1         $this->load->view('template/header', $data);
3         $this->load->view('mahasiswa/tambah', $data);
2         $this->load->view('template/footer');
3     }else{
3         #code...
3         $this->mahasiswa_model->tambahdatamhs();
4         //untuk flashdata mempunyai 2 parameter (nama flashdata/alias, i
3 si dari flashdatanya)
5         $this->session->set_flashdata('flash-data', 'ditambahkan');
3
6         redirect('mahasiswa','refresh');
3     }
7 }
3
8 public function hapus($id)
3 {
9     $this->mahasiswa_model->hapusdatamhs($id);
4     //untuk flashdata mempunyai 2 parameter (nama flashdata/alias, isi d
0 ari flashdatanya)
4     $this->session->set_flashdata('flash-data', 'dihapus');
1     redirect('mahasiswa','refresh');
4 }
2
4 public function detail($id)
3 {
4     $data['title']='Detail Mahasiswa';
4     $data['mahasiswa']=$this->mahasiswa_model->getmahasiswaByID($id);
4     $this->load->view('template/header', $data);
5     $this->load->view('mahasiswa/detail', $data);
4     $this->load->view('template/footer');
6
4 }
7

```

```

4     public function edit($id)
8     {
4         $data['title']='Form Edit Data Mahasiswa';
9         $data['mahasiswa']=$this->mahasiswa_model->getmahasiswaByID($id);
5         $data['majors']=['Teknik Informatika', 'Teknik Kimia', 'Teknik Indus
0 tri', 'Teknik Mesin', 'Teknik Sipil'];
5         $this->form_validation-
1 >set_rules('student_name', 'Name', 'required');
5         $this->form_validation->set_rules('nim', 'Nim', 'required|numeric');
2         $this->form_validation-
5 >set_rules('birthplace', 'Birthplace', 'required');
3         $this->form_validation-
5 >set_rules('birthdate', 'Birthdate', 'required|date');
4         $this->form_validation->set_rules('address', 'Address', 'required');
5
5         if ($this->form_validation->run() == FALSE) {
5             $this->load->view('template/header', $data);
6             $this->load->view('mahasiswa/edit', $data);
5             $this->load->view('template/footer');
7         } else {
5             $this->mahasiswa_model->ubahdatamhs();
8             $this->session->set_flashdata('flash-data', 'diedit');
5             redirect('mahasiswa', 'refresh');
9         };
6     }
0 }
6
1 /* End of file Controllername.php */
6 ?>

```

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| controller/user.php |   |
| 1                   | <?php   |
| 2                   |   |
| 3                   | defined('BASEPATH') OR exit('No direct script access allowed'); |
| 4                   |   |
| 5                   | class user extends CI_Controller {                              |
| 6                   |   |
| 7                   | public function __construct()                                   |
| 8                   | {   |
| 9                   | parent::__construct();  |
| 1                   | \$this->load->helper('url');                                    |
| 0                   | \$this->load->helper('form');                                   |
| 1                   | \$this->load->model('login_model');                             |
| 1                   | \$this->load->model('mahasiswa_model');                         |
| 1                   | \$this->load->model('cetak_model');                             |
| 2                   | //\$this->load->library('session');                             |
| 1                   |   |
| 3                   | //validasi level  |
| 1                   | if(\$this->session->userdata('level') != "user"){               |
| 4                   | redirect('login','refresh');                                    |
| 1                   | }   |
| 5                   | }   |
| 1                   |   |
| 6                   | public function index()   |
| 1                   | {   |
| 7                   | \$data = array(   |
| 1                   | 'title' => 'data mahasiswa',                                    |
| 8                   | 'mahasiswa' => \$this->mahasiswa_model->datatables()            |
| 1                   | );  |
| 9                   | \$this->load->view('template/header_datatables_user', \$data);  |
| 2                   | \$this->load->view('mahasiswa/user', \$data);                   |
| 0                   | \$this->load->view('template/footer_datatables_user');          |
| 2                   | }   |
| 1                   |   |
| 2                   | public function laporan_pdf(){                                  |
| 2                   | \$this->load->library('pdf');                                   |
| 2                   | \$data['mahasiswa'] = \$this->cetak_model->view();              |

```
3      $this->load->library('pdf');
2
4      $this->pdf->setPaper('A4', 'potrrait');
2      $this->pdf->filename = "laporan-petanikode.pdf";
5      $this->pdf->load_view('mahasiswa/laporan', $data);
2  }
6
2  }
7
2  /* End of file user.php */
8
2  ?>
```

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| models/cetak_model.php |  |
| 1                      | <?php  |
| 2                      |  |
| 3                      | defined('BASEPATH') OR exit('No direct script access allowed');              |
| 4                      |  |
| 5                      | class cetak_model extends CI_Model {   |
| 6                      |  |
| 7                      | public function view(){  |
| 8                      | \$this->db->   |
| 9                      | select('student_name, nim, birthplace, birthdate, majors, address');         |
| 1                      | \$query = \$this->db->get('mahasiswa');                                      |
| 0                      | return \$query->result();  |
| 1                      | }  |
| 1                      |  |
| 1                      | }  |
| 2                      |  |
| 1                      | /* End of file cetak_model.php */  |
| 3                      |  |
| 1                      | ?>   |
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| models/login_model.php |  |
| 1                      | <?php  |
| 2                      |  |
| 3                      | defined('BASEPATH') OR exit('No direct script access allowed');              |
| 4                      |  |
| 5                      | class login_model extends CI_Model {   |
| 6                      |  |
| 7                      | function login(\$username, \$password){                                      |
| 8                      | //var_dump(\$username);  |
| 9                      | //var_dump(\$password);  |
| 1                      | //die();   |
| 0                      | \$this->db->select('username, password, level');                             |
| 1                      | \$this->db->from('user');  |
| 1                      | \$this->db->   |
| 1                      | where('username', \$username); //maksudnya selama inputan user yang disimpan |
| 2                      | pada parameter \$user sama dengan username                                   |
| 1                      | \$this->db->where('password', \$password);                                   |
| 3                      | \$this->db->limit(1); //maksudnya data yang diambil cuma 1                   |
| 1                      |  |
| 4                      | \$query= \$this->db->get();  |
| 1                      | if(\$query->num_rows()==1)//jika data ditemukan                              |
| 5                      | {  |

|                            |   |
|----------------------------|---|
| 1                          | return \$query->result();   |
| 6                          | }else{  |
| 1                          | return false;   |
| 7                          | }   |
| 1                          | }   |
| 8                          |   |
| 1                          | }   |
| 9                          |   |
| 2                          | /* End of file login_model.php */   |
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| 2                          | ?>  |
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| models/mahasiswa_model.php |   |
| 1                          | <?php   |
| 2                          |   |
| 3                          | defined('BASEPATH') OR exit('No direct script access allowed');   |
| 4                          |   |
| 5                          | class mahasiswa_model extends CI_Model {  |
| 6                          | public function getAllmahasiswa()   |
| 7                          | {   |
| 8                          | <a href="https://www.codeigniter.com/user_guide/database/query_builder.html">//https://www.codeigniter.com/user_guide/database/query_builder.html</a> |
| 9                          | #selectingdata  |
| 1                          | //\$query digunakan untuk menampung isi dari tabel mahasiswa  |
| 0                          | \$query=\$this->db->get('mahasiswa');   |
| 1                          |   |
| 1                          | <a href="https://www.codeigniter.com/user_guide/database/results.html">//https://www.codeigniter.com/user_guide/database/results.html</a>             |
| 1                          | //untuk menampilkan isi dari query  |
| 2                          | return \$query->result_array();   |
| 1                          |   |
| 3                          | //atau bisa juga menggunakan code berikut   |

```

1      //return $this->db->get('mahasiswa')->result_array();
4      }
1
5      public function tambahdatamhs()
1      {
6          $data=[
1              "student_name" => $this->input->post('student_name', true),
7              "nim" => $this->input->post('nim', true),
1              "birthplace" => $this->input->post('birthplace', true),
8              "birthdate" => $this->input->post('birthdate', true),
1              "majors" => $this->input->post('majors', true),
9              "address" => $this->input->post('address', true),
2          ];
0          $this->db->insert('mahasiswa', $data);
2      }
1
2      public function hapusdatamhs($id)
2      {
2          $this->db->where('id', $id);
3          $this->db->delete('mahasiswa');
2      }
4
2      public function getmahasiswaByID($id)
5      {
2          return $this->db->get_where('mahasiswa', ['id'=>$id])->row_array();
6      }
2
7      public function ubahdatamhs()
2      {
8          $data=[
2              "student_name" => $this->input->post('student_name', true),
9              "nim" => $this->input->post('nim', true),
3              "birthplace" => $this->input->post('birthplace', true),
0              "birthdate" => $this->input->post('birthdate', true),
3              "majors" => $this->input->post('majors', true),
1              "address" => $this->input->post('address', true),
3          ];
2          $this->db->where('id', $this->input->post('id'));
3          $this->db->update('mahasiswa', $data);
3      }
3
4      public function cariDataMahasiswa()
3      {
5          $keyword=$this->input->post('keyword');
3          $this->db->like('nama', $keyword);
6          $this->db->or_like('jurusan', $keyword);
3          return $this->db->get('mahasiswa')->result_array();
7      }
3
8      public function datatables(){

```

```
3         $query = $this->db->order_by('id', 'desc')->get('mahasiswa');
9         return $query->result();
4     }
0 }
```

```
4
1 /* End of file ModelName.php */
```

```
4
2 ?>
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| 7                    |   |
| 4                    |   |
| view/login/index.php |   |
| 1                    | <?=   |
| 2                    | form_open('login/proses_login');            |
| 3                    | ?>  |
| 4                    | <div class="container py-5">                |
| 5                    | <div class="row">                           |
| 6                    | <div class="col-md-12">                     |
| 7                    | <div class="row">                           |
| 8                    | <div class="col-md-6 mx-auto">              |
| 9                    |   |
| 1                    | <!-- form card login -->                    |
| 0                    | <!-- cek pesan -->                          |
| 1                    | <div class="alert alert-info" role="alert"> |
| 1                    | <?php                                       |
| 1                    | if(isset(\$pesan)){                         |
| 2                    | echo \$pesan;                               |
| 1                    | }else{                                      |
| 3                    | echo "Masukkan username dan password and    |
| 1                    | a";   |
| 4                    | }   |
| 1                    | ?>  |
| 5                    | </div>                                      |
| 1                    | <div class="card rounded-0">                |
| 6                    | <div class="card-header">                   |
| 1                    | <h3 class="mb-0">Login</h3>                 |
| 7                    | </div>                                      |
| 1                    | <div class="card-body">                     |
| 8                    |   |

```

1      <form class="form" role="form" autocomplete="off
9  " id="formLogin" novalidate="" method="POST">
2          <div class="form-group">
0              <label for="uname1">Username</label>
2              <input type="text" class="form-
1 control form-control-lg rounded-0" name="uname1" id="uname1" required="">
2              <div class="invalid-
2 feedback">Oops, you missed this one.</div>
2              </div>
3              <div class="form-group">
2                  <label>Password</label>
4                  <input type="password" class="form-
2 control form-control-lg rounded-
5 0" name="pwd1" id="pwd1" required="" autocomplete="new-password">
2                  <div class="invalid-
6 feedback">Enter your password too!</div>
2                  </div>
7                  <button type="submit" class="btn btn-
2 success btn-lg float-right" id="btnLogin">Login</button>
8              </form>
2          </div>
9          <!--/card-block-->
3      </div>
0      <!--/form card login -->
3  </div>
1  </div>
3  <!--/row-->
2  </div>
3  <!--/col-->
3  </div>
3  <!--row-->
4 </div>
3 <!--container-->
5
3 <?=
6     form_close();
3 ?>
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|---------------------------|---|
| view/mahasiswa/detail.php |   |
| 1                         | <div class="container">                         |
| 2                         | <div class="row mt-3">                          |
| 3                         | <div class="col-md-6">                          |
| 4                         | <div class="card">                              |
| 5                         | <div class="card-header">                       |
| 6                         | Detail Data Mahasiswa                           |
| 7                         | </div>  |
| 8                         | <div class="card-body">                         |
| 9                         | <h5 class="card-                                |
| 1                         | title"><?= \$mahasiswa['student_name']; ?></h5> |
| 0                         | <p class="card-text">                           |
| 1                         | <label for=""><b> Nim:</b></label>              |
| 1                         | <?= \$mahasiswa['nim']; ?>                      |
| 1                         | </p>  |
| 2                         | <p class="card-text">                           |
| 1                         | <label for=""><b> Birthplace:</b></label>       |
| 3                         | <?= \$mahasiswa['birthplace']; ?>               |
| 1                         | </p>  |
| 4                         | <p class="card-text">                           |

|                         |  |
|-------------------------|--|
| 1                       | <label for=""><b> Birthdate:</b></label>                   |
| 5                       | <?= \$mahasiswa['birthdate']; ?>                           |
| 1                       | </p>   |
| 6                       | <p class="card-text">                                      |
| 1                       | <label for=""><b> Majors:</b></label>                      |
| 7                       | <?= \$mahasiswa['majors']; ?>                              |
| 1                       | </p>   |
| 8                       | <p class="card-text">                                      |
| 1                       | <label for=""><b> Address:</b></label>                     |
| 9                       | <?= \$mahasiswa['address']; ?>                             |
| 2                       | </p>   |
| 0                       | <a href="<?= base_url();?>mahasiswa" class="btn btn-       |
| 2                       | primary">Kembali</a>                                       |
| 1                       | </div>   |
| 2                       | </div>   |
| 2                       | </div>   |
| 2                       | </div>   |
| 3                       | </div>   |
| 2                       |  |
| 4                       |  |
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| 3                       |  |
| 4                       |  |
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| 5                       |  |
| view/mahasiswa/edit.php |  |
| 1                       | <div class="container">                                    |
| 2                       | <div class="row mt-3">                                     |
| 3                       | <div class="col-md-6">                                     |
| 4                       | <!-- http://getbootstrap.com/docs/4.1/components/card/ --> |
| 5                       | <div class="card">   |
| 6                       | <div class="card-header">                                  |
| 7                       | Form Merubah Data Mahasiswa                                |

```
</div>
<div class="card-body">
<!-- untuk menampilkan pesan error -->
<?php if (validation_errors()):?>
    <div class="alert alert-danger" role="alert">
        <?= validation_errors() ?>
    </div>
<?php endif ?>
<form action="" method="post">
    <input type="hidden" name="id" value="<?= $mahasiswa
['id'];?>">
    <!--
- http://getbootstrap.com/docs/4.1/components/forms/ -->
    <div class="form-group">
        <label for="student_name">Name</label>
        <input type="text" class="form-
control" id="student_name" name="student_name" value="<?= $mahasiswa['studen
t_name'];?>">
    </div>
    <div class="form-group">
        <label for="nim">Nim</label>
        <input type="number" class="form-
control" id="nim" name="nim" value="<?= $mahasiswa['nim'];?>">
    </div>
    <div class="form-group">
        <label for="birthplace">Birthplace</label>
        <input type="text" class="form-
control" id="birthplace" name="birthplace" value="<?= $mahasiswa['birthplace
'];?>">
    </div>
    <div class="form-group">
        <label for="birthdate">Birthdate</label>
        <input type="date" class="form-
control" id="birthdate" name="birthdate" value="<?= $mahasiswa['birthdate'];
?>">
    </div>
    <div class="form-group">
        <label for="majors">Majors</label>
        <select class="form-
control" id="majors" name="majors">
            <?php foreach($majors as $key): ?>
                <?php if($key == $mahasiswa['majors']):
?>
                    <option value="<?= $key ?>"selected>
<?= $key ?></option>
                <?php else :?>
                    <option value="<?= $key ?>"><?= $key
?></option>
                <?php endif;?>
            <?php endforeach; ?>
        </select>
    </div>
</form>
</div>
```

```
3         </select>
4     </div>
3     <div class="form-group">
5         <label for="address">Address</label>
3         <input type="text" class="form-
6 control" id="address" name="address" value="<?= $mahasiswa['address'];?>">
3     </div>
7         <button type="submit" name="submit" class="btn btn-
3 primary float-right">Submit</button>
8     </form>
3 </div>
9 </div>
4 </div>
0 </div>
4 </div>
```

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| 3                        |  |
| view/mahasiswa/index.php |  |
| 1                        | <div class="container">  |
| 2                        | <?php if(\$this->session->flashdata('flash-data')):?>          |
| 3                        | <div class="row mt-4">   |
| 4                        | <div class="col-md-6">   |
| 5                        | <div class="alert alert-success alert-                         |
| 6                        | dismissible fade show" role="alert">                           |
| 7                        | Data Mahasiswa <strong>Berhasil</strong> <?= \$this->session-  |
| 8                        | >flashdata('flash-data');?>                                    |
| 9                        | <button type="button" class="close" data-dismiss="alert" aria- |
| 1                        | label="Close">   |
| 0                        | <span aria-hidden="true">&times;</span>                        |
| 1                        | </button>  |
| 1                        | </div>   |
| 1                        | </div>   |
| 2                        | </div>   |
| 1                        | <?php endif; ?>  |
| 3                        | <div class="row mt-4">   |
| 1                        | <div class="col-md-6">   |
| 4                        | <a href="<?= base_url();?>mahasiswa/tambah"class="btn btn-     |
| 1                        | primary"> Tambah Data</a>                                      |
| 5                        | </div>   |
| 1                        | </div>   |
| 6                        |  |
| 1                        | <div class="row mt-3">   |
| 7                        | <div class="col-md-6">   |
| 1                        | <form action="" method="post">                                 |
| 8                        | <div class="input-group">                                      |
| 1                        | <input type="text" class="form-                                |
| 9                        | control" placeholder="Cari Data Mahasiswa" name="keyword">     |
| 2                        | <div class="input-group-append">                               |
| 0                        | <button class="btn btn-primary" type="submit">Cari</button>    |
| 2                        | </div>   |
| 1                        | </div>   |
| 2                        | </form>  |
| 2                        | </div>   |
| 2                        | </div>   |
| 3                        |  |
| 2                        | <div class="row mt-3">   |
| 4                        | <div class="col-md-6">   |

```

2      <h2>Daftar Mahasiswa</h2>
5
2      <!-- alert -->
6      <?php if(empty($mahasiswa)): ?>
2          <div class="alert alert-danger" role="alert">
7              Data Mahasiswa tidak ditemukan
2          </div>
8      <?php endif; ?>
2      <ul class="list-group">
9          <?php foreach($mahasiswa as $mhs): ?>
3              <li class="list-group-item">
0                  <?= $mhs['student_name'];?>
3                  <a href="<?= base_url();?>mahasiswa/hapus/<?= $mhs['id'];?>"
1                      class="badge badge-danger float-right"
3                      onclick="return confirm('Yakin Data ini akan dihapus?');">Ha
2          pus</a>
3
3                  <a href="<?= base_url();?>mahasiswa/edit/<?= $mhs['id'];?>"
3                      class="badge badge-success float-right">Edit</a>
3                  <a href="<?= base_url();?>mahasiswa/detail/<?= $mhs['id'];?>
4          "
3                      class="badge badge-primary float-right">Detail</a>
5              </li>
3          <?php endforeach; ?>
6      </ul>
3      </div>
7 </div>
3 </div>

```

|                            |                               |
|----------------------------|-------------------------------|
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| 5                          |                               |
| 9                          |                               |
| view/mahasiswa/laporan.php |                               |
| 1                          | <!DOCTYPE html>               |
| 2                          | <html>                        |
| 3                          | <head>                        |
| 4                          | <title>Report Table</title>   |
| 5                          | <style type="text/css">       |
| 6                          | #outtable{                    |
| 7                          | padding:20px;                 |
| 8                          | border:1px solid #e3e3e3;     |
| 9                          | width:600px;                  |
| 1                          | border-radius:5px;            |
| 0                          | }                             |
| 1                          | .short{                       |
| 1                          | width:50px;                   |
| 1                          | }                             |
| 2                          | .normal{                      |
| 1                          | width:150px;                  |
| 3                          | }                             |
| 1                          | table{                        |
| 4                          | border-collapse:collapse;     |
| 1                          | font-family:arial;            |
| 5                          | color:#5E5B5C;                |
| 1                          | }                             |
| 6                          | thead th{                     |
| 1                          | text-align:left;              |
| 7                          | padding:10px;                 |
| 1                          | }                             |
| 8                          | tbody td{                     |
| 1                          | border-top:1px solid #e3e3e3; |
| 9                          | padding:10px;                 |

```

2     }
0     tbody tr:nth-child(even){
2         background:#F6F5FA;
1     }
2     tbody tr:hover{
2         background:#EAE9F5;
2     }
3 </style>
2 </head>
4 <body>
2     <div id="outtable">
5         <table>
2             <thead>
6                 <tr>
2                     <th class="short">#</th>
7                     <th class="normal">Name</th>
2                     <th class="normal">Nim</th>
8                     <th class="normal">Birthplace</th>
2                     <th class="normal">Birthdate</th>
9                     <th class="normal">Majors</th>
3                     <th class="normal">Address</th>
0                 </tr>
3             </thead>
1             <tbody>
3                 <?php $no=1; ?>
2                 <?php foreach($mahasiswa as $user): ?>
3                     <tr>
3                         <th><?php echo $no; ?></th>
3                         <th><?php echo $user->student_name; ?></th>
4                         <th><?php echo $user->nim; ?></th>
3                         <th><?php echo $user->birthplace; ?></th>
5                         <th><?php echo $user->birthdate; ?></th>
3                         <th><?php echo $user->majors; ?></th>
6                         <th><?php echo $user->address; ?></th>
3                     </tr>
7                     <?php $no++; ?>
3                     <?php endforeach; ?>
8                 </tbody>
3             </table>
9         </div>
4 </body>
0 </html>

```



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| 7                         |  |
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| 1                         |  |
| view/mahasiswa/tambah.php |  |
| 1                         | <div class="container">                                    |
| 2                         | <div class="row mt-3">                                     |
| 3                         | <div class="col-md-6">                                     |
| 4                         | <!-- http://getbootstrap.com/docs/4.1/components/card/ --> |
| 5                         | <div class="card">   |
| 6                         | <div class="card-header">                                  |
| 7                         | Form Tambah Data Mahasiswa                                 |
| 8                         | </div>   |
| 9                         | <div class="card-body">                                    |
| 1                         | <!-- untuk menampilkan pesan error -->                     |
| 0                         | <?php if (validation_errors()):?>                          |
| 1                         | <div class="alert alert-danger" role="alert">              |
| 1                         | <?= validation_errors() ?>                                 |
| 1                         | </div>   |
| 2                         | <?php endif ?>   |
| 1                         | <form action="" method="post">                             |
| 3                         | <!--   |
| 1                         | - http://getbootstrap.com/docs/4.1/components/forms/ -->   |
| 4                         | <div class="form-group">                                   |
| 1                         | <label for="student_name">Name</label>                     |
| 5                         | <input type="text" class="form-                            |
| 1                         | control" id="student_name" name="student_name">            |
| 6                         | </div>   |
| 1                         | <div class="form-group">                                   |
| 7                         | <label for="nim">Nim</label>                               |
| 1                         | <input type="number" class="form-                          |
| 8                         | control" id="nim" name="nim">                              |
| 1                         | </div>   |
| 9                         | <div class="form-group">                                   |
| 2                         | <label for="birthplace">Birthplace</label>                 |
| 0                         | <input type="text" class="form-                            |
| 2                         | control" id="birthplace" name="birthplace">                |
| 1                         | </div>   |
| 2                         | <div class="form-group">                                   |
| 2                         | <label for="birthdate">Birthdate</label>                   |
| 2                         | <input type="date" class="form-                            |
| 3                         | control" id="birthdate" name="birthdate">                  |
| 2                         | </div>   |
| 4                         | <div class="form-group">                                   |
| 2                         | <label for="majors">Majors</label>                         |
| 5                         | <select class="form-                                       |
| 2                         | control" id="majors" name="majors">                        |
| 6                         | <?php foreach(\$majors as \$key): ?>                       |
| 2                         | <option value="<?= \$key ?>" selected><?= \$key            |
| 7                         | ?></option>  |

```
2             <?php endforeach; ?>
8             </select>
2         </div>
9         <div class="form-group">
3             <label for="address">Address</label>
0             <input type="text" class="form-
3 control" id="address" name="address">
1             </div>
3             <button type="submit" name="submit" class="btn btn-
2 primary float-right">Submit</button>
3         </form>
3     </div>
3 </div>
4 </div>
3 </div>
5 </div>
```

view/mahasiswa/user.php

```
1 <div class="container" style="margin-top:20px">
2   <div class="col-md-12">
3     <h1 style="text-align: center; margin-
4 bottom:30px"> Data Mahasiswa</h1>
5   </div>
6   <table class="table table-striped table-bordered" id="list_mhs">
7     <thead>
8       <tr>
9         <th>#</th>
1          <th>Name</th>
0          <th>Nim</th>
1          <th>Birthplace</th>
1          <th>Birthdate</th>
1          <th>Majors</th>
2          <th>Address</th>
1        </tr>
3      </thead>
1      <tbody>
4        <?php
1          $no=1;
5          foreach($mahasiswa as $mhs){?>
1            <tr>
6              <th><?= $no++; ?></th>
1              <th><?= $mhs->student_name; ?></th>
7              <th><?= $mhs->nim; ?></th>
1              <th><?= $mhs->birthplace; ?></th>
8              <th><?= $mhs->birthdate; ?></th>
1              <th><?= $mhs->majors; ?></th>
9              <th><?= $mhs->address; ?></th>
2            </tr>
0            <?php } ?>
2          </tbody>
1          </table>
2 </div>
```

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| 3   |  |
| view/template/footer_datatables_user.php  |  |
| 1   | <script type="text/javascript">  |
| 2   | \$(document).ready(function() {  |
| 3   | \$('#list_mhs').DataTable();   |
| 4   | });  |
| 5   | </script>  |
| 6   | <script src="https://stackpath.bootstrapcdn.com/bootstrap/4.1.3/js/boots     |
| 7   | trap.min.js" crossorigin="anonymous"></script>                               |
| 8   | </body>  |
|   | </html>  |
| view/template/footer.php                  |  |
| 1   | <!-- Optional JavaScript -->   |
| 2   | <!-- jQuery first, then Popper.js, then Bootstrap JS -->                     |
| 3   | <script src="https://code.jquery.com/jquery-                                 |
| 4   | 3.3.1.slim.min.js" integrity="sha384-  |
| 5   | q8i/X+965Dz00rT7abK41JStQIAqVgRVzpbzo5smXKp4YfRvH+8abtTE1Pi6jizo" crossorigi |
| 6   | n="anonymous"></script>  |
| 7   | <script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.3/umd     |
| 8   | /popper.min.js" integrity="sha384-   |
| 9   | ZMP7rVo3mIykV+2+9J3UJ46jBk0WLaUAdn689aCwoqbBJiSnjAK/l8WvCWPIpM49" crossorigi |
| 1   | n="anonymous"></script>  |
| 0   | <script src="https://stackpath.bootstrapcdn.com/bootstrap/4.1.3/js/boots     |
|   | trap.min.js" integrity="sha384-  |
|   | ChfqxuZUCnJSK3+MXmPNIyE6ZbWh2IMqE241rYiqJxyMiZ6OW/JmZQ5stwEULTy" crossorigi  |
|   | n="anonymous"></script>  |
|   | </body>  |
|   | </html>  |
| view/mahasiswa/header_datatables_user.php |  |
| 1   | <!doctype html>  |
| 2   | <html lang="en">   |
| 3   | <head>   |
| 4   | <!-- Required meta tags -->  |
| 5   | <meta charset="utf-8">   |
| 6   | <meta name="viewport" content="width=device-width, initial-                  |
| 7   | scale=1, shrink-to-fit=no">  |
| 8   |  |
| 9   | <!-- Bootstrap CSS -->   |
| 1   | <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstra     |
| 0   | p/4.1.3/css/bootstrap.min.css" integrity="sha384-                            |
| 1   | MCw98/SFnGE8fJT3GXwEOngsV7Zt27NXFoaoApmYm81iuXoPkFOJwJ8ERdknLPM0" crossorigi |
| 1   | n="anonymous">   |
| 1   |  |

|   |  |
|---|--|
| 2 | <!-- <title>Hello, world!</title> -->                                      |
| 1 | <title><?= \$title ?></title>  |
| 3 |  |
| 1 | <script src="//ajax.googleapis.com/ajax/libs/jquery/1.10.2/jquery.min.js   |
| 4 | "></script>  |
| 1 | <link rel="stylesheet" type="text/css" href="https://cdn.datatables.net/v/ |
| 5 | dt/dt-1.10.13/datatables.min.css"/>  |
| 1 | <script type="text/javascript" src="https://cdn.datatables.net/v/dt/dt-    |
| 6 | 1.10.13/datatables.min.js"></script>                                       |
| 1 | </head>  |
| 7 | <body>   |
| 1 |  |
| 8 | <!-- navbar -->  |
| 1 | <nav class="navbar navbar-expand-lg navbar-light bg-light">                |
| 9 | <div class="container">  |
| 2 | <a class="navbar-brand" href="#">CI</a>                                    |
| 0 | <button class="navbar-toggler" type="button" data-                         |
| 2 | toggle="collapse" data-target="#navbarNavAltMarkup" aria-                  |
| 1 | controls="navbarNavAltMarkup" aria-expanded="false" aria-                  |
| 2 | label="Toggle navigation">   |
| 2 | <span class="navbar-toggler-icon"></span>                                  |
| 2 | </button>  |
| 3 | <div class="collapse navbar-collapse" id="navbarNavAltMarkup">             |
| 2 | <div class="navbar-nav">   |
| 4 | <!-- <a class="nav-item nav-   |
| 2 | link" href="<?= base_url(); ?>">Home</a> -->                               |
| 5 | <a class="nav-item nav-  |
| 2 | link" href="<?= base_url(); ?>user/laporan_pdf">Cetak Laporan</a>          |
| 6 | <a class="nav-item nav-  |
| 2 | link" href="<?= base_url(); ?>login/logout">Logout</a>                     |
| 7 | </div>   |
| 2 | </div>   |
| 8 | </div>   |
| 2 | </nav>   |
| 9 |  |
| 3 |  |
| 0 |  |
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| 1 |  |
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| 3                               |  |
| 7                               |  |
| view/mahasiswa/header_login.php |  |
| 1                               | <!doctype html>  |
| 2                               | <html lang="en">   |
| 3                               | <head>   |
| 4                               | <!-- Required meta tags -->  |
| 5                               | <meta charset="utf-8">   |
| 6                               | <meta name="viewport" content="width=device-width, initial-                  |
| 7                               | scale=1, shrink-to-fit=no">  |
| 8                               |  |
| 9                               | <!-- Bootstrap CSS -->   |
| 1                               | <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/boot         |
| 0                               | strap/4.1.3/css/bootstrap.min.css" integrity="sha384-                        |
| 1                               | MCw98/SFnGE8fJT3GXwEOngsV7Zt27NXFoaoApmYm81iuXoPkFOJwJ8ERdknLPM0" crossorigi |
| 1                               | n="anonymous">   |
| 1                               |  |
| 2                               | <!-- style css -->   |
| 1                               | <style>  |
| 3                               | .badge{  |
| 1                               | margin-left:3px;   |
| 4                               | }  |
| 1                               | </style>   |
| 5                               |  |
| 1                               | <!-- <title>Hello, world!</title> -->  |
| 6                               | <title><?= \$title ?></title>  |
| 1                               | </head>  |
| 7                               | <body></body>  |
| 1                               | </html>  |
| 8                               |  |
| 1                               |  |
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| 2                               |  |
| 2                               |  |
| 3                               |  |
| view/mahasiswa/header.php       |  |
| 1                               | <!doctype html>  |
| 2                               | <html lang="en">   |
| 3                               | <head>   |
| 4                               | <!-- Required meta tags -->  |
| 5                               | <meta charset="utf-8">   |
| 6                               | <meta name="viewport" content="width=device-width, initial-                  |
| 7                               | scale=1, shrink-to-fit=no">  |
| 8                               |  |
| 9                               | <!-- Bootstrap CSS -->   |

```

1 <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstra
0 p/4.1.3/css/bootstrap.min.css" integrity="sha384-
1 MCw98/SFnGE8fJT3GXwEOngsV7Zt27NXFoaoApmYm81iuXoPkFOJwJ8ERdknLPM0" crossorigi
1 n="anonymous">
1
2 <!-- style css -->
1 <style>
3 .badge{
1 margin-left:3px;
4 }
1 </style>
5
1 <!-- <title>Hello, world!</title> -->
6 <title><?= $title ?></title>
1 </head>
7 <body>
1
8 <!-- navbar -->
1 <nav class="navbar navbar-expand-lg navbar-light bg-light">
9 <a class="navbar-brand" href="#">CI</a>
2 <button class="navbar-toggler" type="button" data-
0 toggle="collapse" data-target="#navbarNavAltMarkup" aria-
2 controls="navbarNavAltMarkup" aria-expanded="false" aria-
1 label="Toggle navigation">
2 <span class="navbar-toggler-icon"></span>
2 </button>
2 <div class="collapse navbar-collapse" id="navbarNavAltMarkup">
3 <div class="navbar-nav">
2 <a class="nav-item nav-
4 link" href="<?= base_url(); ?>mahasiswa">Home</a>
2 <a class="nav-item nav-
5 link" href="<?= base_url(); ?>mahasiswa">Data Mahasiswa</a>
2 <a class="nav-item nav-
6 link" href="<?= base_url(); ?>login/logout">Logout</a>
2 <!-- <a class="nav-item nav-link disabled" href="#">Disabled</a> -->
7 </div>
2 </div>
8 </nav>
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## Admin Login:

Masukkan username dan password anda

### Login

Username

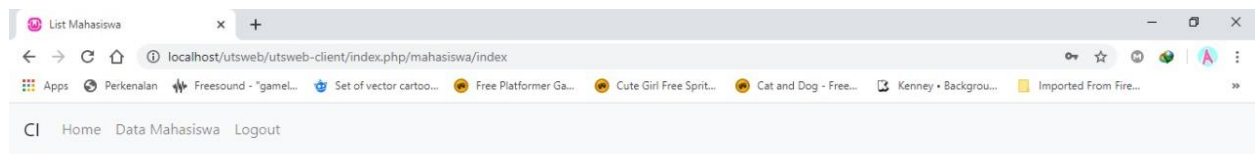
admin

Password

\*\*\*\*\*

Login

Show record in mahasiswa table:



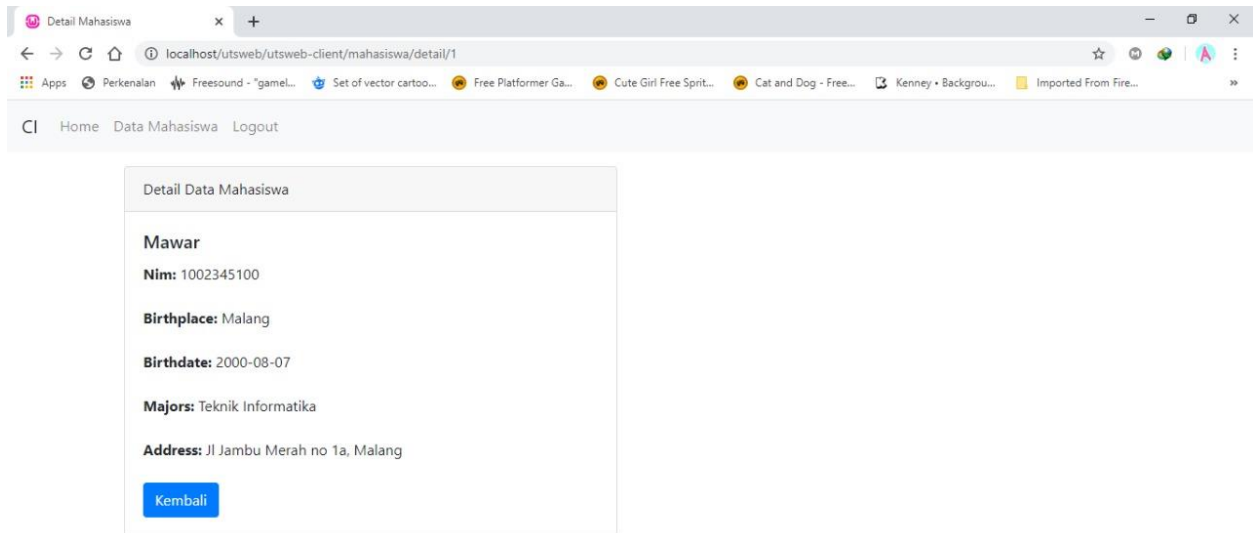
Tambah Data

Cari

## Daftar Mahasiswa

|        |   |
|--------|---|
| Mawar  | <a href="#">Detail</a> <a href="#">Edit</a> <a href="#">Hapus</a> |
| Melati | <a href="#">Detail</a> <a href="#">Edit</a> <a href="#">Hapus</a> |
| Daisy  | <a href="#">Detail</a> <a href="#">Edit</a> <a href="#">Hapus</a> |
| Andre  | <a href="#">Detail</a> <a href="#">Edit</a> <a href="#">Hapus</a> |
| Naufal | <a href="#">Detail</a> <a href="#">Edit</a> <a href="#">Hapus</a> |
| Leona  | <a href="#">Detail</a> <a href="#">Edit</a> <a href="#">Hapus</a> |

## Show details of selected student:

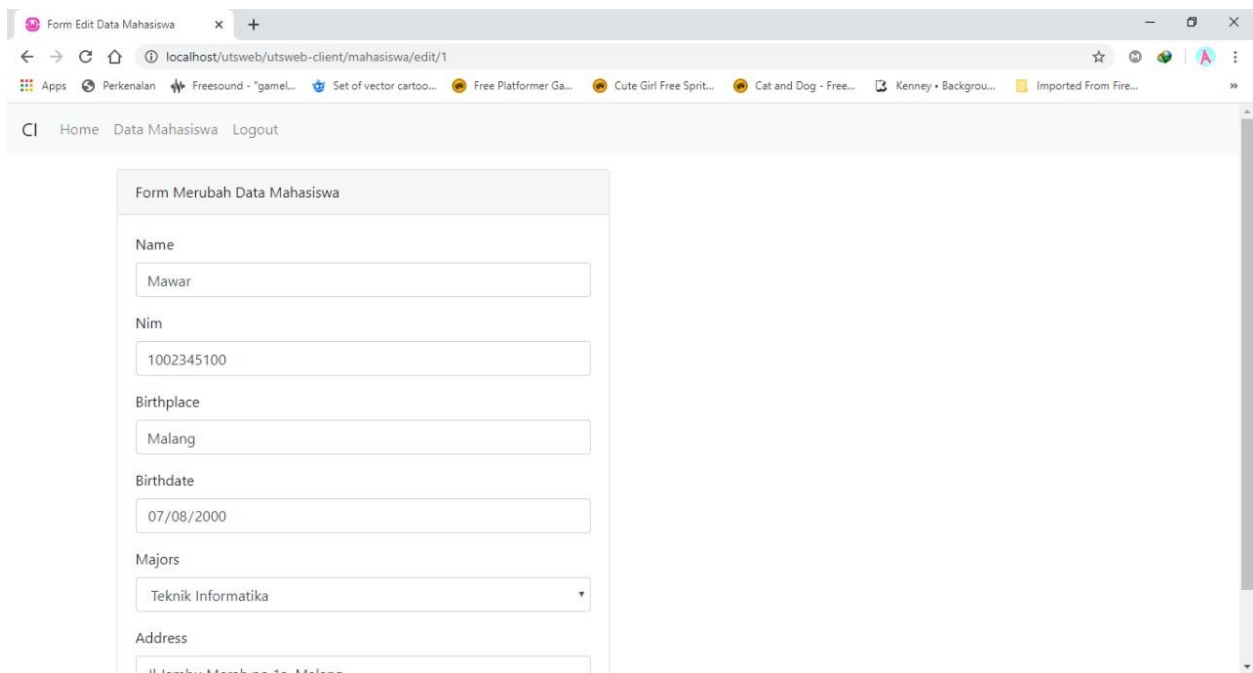


Detail Data Mahasiswa

**Mawar**  
**Nim:** 1002345100  
**Birthplace:** Malang  
**Birthdate:** 2000-08-07  
**Majors:** Teknik Informatika  
**Address:** Jl Jambu Merah no 1a, Malang

[Kembali](#)

## Edit student record:



Form Merubah Data Mahasiswa

Name  
Mawar

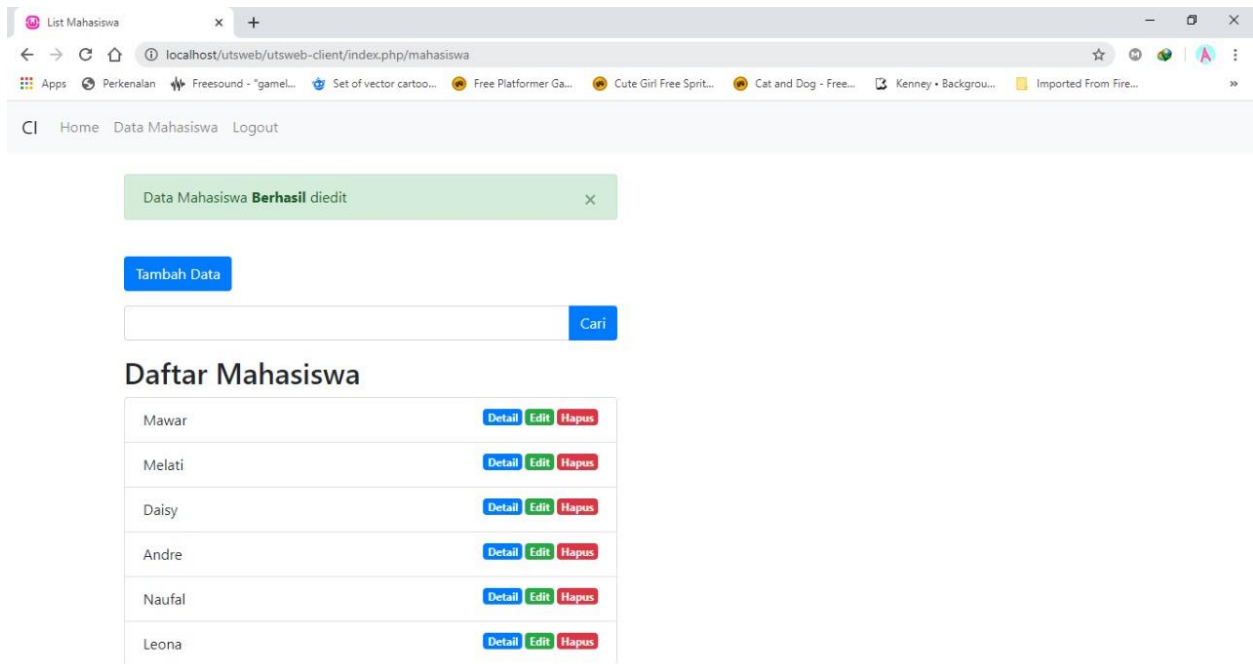
Nim  
1002345100

Birthplace  
Malang

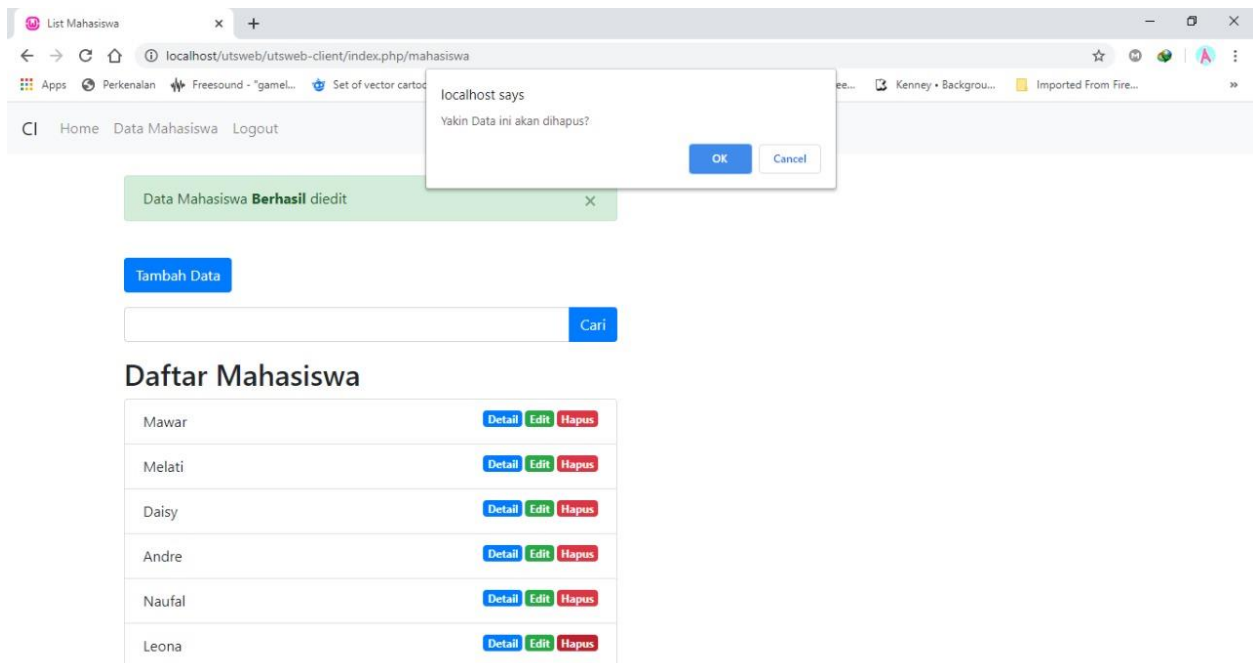
Birthdate  
07/08/2000

Majors  
Teknik Informatika

Address  
Jl Jambu Merah no 1a, Malang



Delete student record:



Data Mahasiswa **Berhasil** dihapus

Tambah Data

Cari

## Daftar Mahasiswa

|        |   |
|--------|---|
| Mawar  | <a href="#">Detail</a> <a href="#">Edit</a> <a href="#">Hapus</a> |
| Melati | <a href="#">Detail</a> <a href="#">Edit</a> <a href="#">Hapus</a> |
| Daisy  | <a href="#">Detail</a> <a href="#">Edit</a> <a href="#">Hapus</a> |
| Andre  | <a href="#">Detail</a> <a href="#">Edit</a> <a href="#">Hapus</a> |
| Naufal | <a href="#">Detail</a> <a href="#">Edit</a> <a href="#">Hapus</a> |

## Add student record to mahasiswa table:

Form Menambahkan Data Mahasiswa

Home Data Mahasiswa Logout

**Form Tambah Data Mahasiswa**

Name  
Leona

Nim  
1002345105

Birthplace  
Pemalang

Birthdate  
09/04/2000

Majors  
Teknik Industri

Address  
Jl. Jember Mertokusumo 12a, M...

List Mahasiswa

localhost/utsweb/utsweb-client/index.php/mahasiswa

Home Data Mahasiswa Logout

Data Mahasiswa **Berhasil** ditambahkan

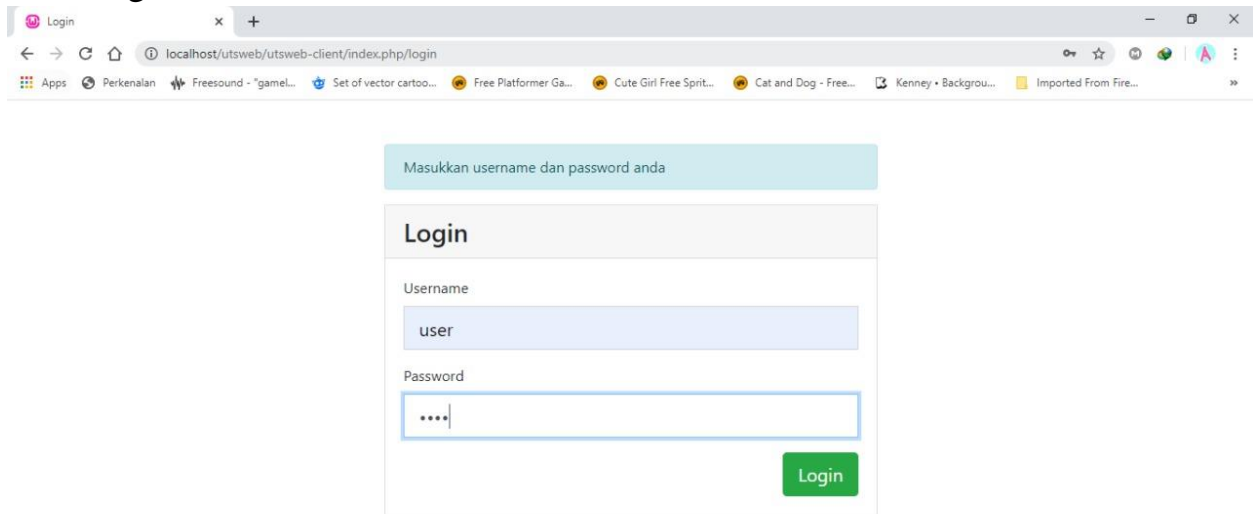
Tambah Data

Cari

### Daftar Mahasiswa

|        |        |      |       |
|--------|--------|------|-------|
| Mawar  | Detail | Edit | Hapus |
| Melati | Detail | Edit | Hapus |
| Daisy  | Detail | Edit | Hapus |
| Andre  | Detail | Edit | Hapus |
| Naufal | Detail | Edit | Hapus |
| Leona  | Detail | Edit | Hapus |

## User Login:



Masukkan username dan password anda

### Login

Username

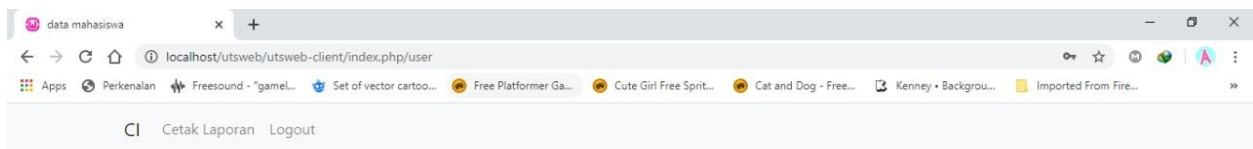
user

Password

....

Login

## View record inside “mahasiswa” table:



data mahasiswa

localhost/utsweb/utsweb-client/index.php/user

CI Cetak Laporan Logout

### Data Mahasiswa

Show  entries

Search:

| # | Name   | Nim        | Birthplace | Birthdate  | Majors             | Address                       |
|---|--------|------------|------------|------------|--------------------|-------------------------------|
| 1 | Leona  | 1002345105 | Pemalang   | 2000-04-09 | Teknik Industri    | Jl Jambu Merah no 12a, Malang |
| 2 | Naufal | 1002345104 | Mataram    | 1999-01-04 | Teknik Sipil       | Jl Jambu Merah no 11a, Malang |
| 3 | Andre  | 1002345103 | Surabaya   | 1999-04-16 | Teknik Mesin       | Jl Durian no 5c, Malang       |
| 4 | Daisy  | 1002345102 | Bandung    | 2000-06-12 | Teknik Kimia       | Jl Anggur no 20b, Malang      |
| 5 | Melati | 1002345101 | Ponorogo   | 1999-12-16 | Teknik Industri    | Jl Apel no 14g, Malang        |
| 6 | Mawar  | 1002345100 | Malang     | 2000-08-07 | Teknik Informatika | Jl Jambu Merah no 1a, Malang  |

Showing 1 to 6 of 6 entries

Previous  Next

Download the record to pdf file:

The screenshot shows a web browser window with the address bar displaying 'localhost/utsweb/utsweb-client/index.php/user'. The page title is 'Data Mahasiswa'. A table with 6 entries is visible, showing student information. A 'Download File Info' modal is open, showing the URL 'http://localhost/utsweb/utsweb-client/user/laporan\_pdf', category 'Documents', and a file size of 3,76 KB. The modal also shows a 'Start Download' button.

| # | Name   | Nim        |
|---|--------|------------|
| 1 | Leona  | 1002345105 |
| 2 | Naufal | 1002345104 |
| 3 | Andre  | 1002345103 |
| 4 | Daisy  | 1002345102 |
| 5 | Melati | 1002345101 |
| 6 | Mawar  | 1002345100 |

## 2. REST Server

Source Code:

controllers/Rest\_server.php

```
1 <?php
2
3 defined('BASEPATH') OR exit('No direct script access allowed');
4
5 class Rest_server extends CI_Controller {
6
7     public function index()
8     {
9         $this->load->helper('url');
10
11         $this->load->view('rest_server');
12     }
13 }
```

models/mahasiswa\_model.php



```

1 <?php
2
3 defined('BASEPATH') OR exit('No direct script access allowed');
4
5 class mahasiswa_model extends CI_Model {
6     public function getMahasiswa($id = null){
7         if($id===null){
8             return $this->db->get('mahasiswa')->result_array();
9         }else{
10             return $this->db->get_where('mahasiswa',['id' => $id])-
11 >result_array();
12         }
13     }
14
15     public function deleteMahasiswa($id){
16         $this->db->delete('mahasiswa', ['id'=>$id]);
17         return $this->db->affected_rows();
18     }
19
20     public function createMahasiswa($data){
21         $this->db->insert('mahasiswa', $data);
22         return $this->db->affected_rows();
23     }
24
25     public function updateMahasiswa($data, $id){
26         $this->db->update('mahasiswa', $data, ['id' => $id]);
27         return $this->db->affected_rows();
28     }
29 }
30
31 /* End of file ModelName.php */
32
33 ?>

```

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| 3 |   |
| 2 |   |
|   | view/rest_server.php  |
| 1 | <?php   |
| 2 | defined('BASEPATH') OR exit('No direct script access allowed'); |
| 3 | ?>  |
| 4 |   |
| 5 | <!DOCTYPE html>   |
| 6 | <html lang="en">  |
| 7 | <head>  |
| 8 | <meta charset="utf-8">  |
| 9 | <title>REST Server Tests</title>                                |
| 1 |   |
| 0 | <style>   |
| 1 |   |
| 1 | ::selection { background-color: #E13300; color: white; }        |
| 1 | ::-moz-selection { background-color: #E13300; color: white; }   |
| 2 |   |
| 1 | body {  |
| 3 | background-color: #FFF;   |
| 1 | margin: 40px;   |
| 4 | font: 16px/20px normal Helvetica, Arial, sans-serif;            |
| 1 | color: #4F5155;   |
| 5 | word-wrap: break-word;  |
| 1 | }   |
| 6 |   |
| 1 | a {   |
| 7 | color: #039;  |
| 1 | background-color: transparent;                                  |
| 8 | font-weight: normal;  |
| 1 | }   |
| 9 |   |
| 2 | h1 {  |
| 0 | color: #444;  |
| 2 | background-color: transparent;                                  |
| 1 | border-bottom: 1px solid #D0D0D0;                               |
| 2 | font-size: 24px;  |
| 2 | font-weight: normal;  |
| 2 | margin: 0 0 14px 0;   |
| 3 | padding: 14px 15px 10px 15px;                                   |
| 2 | }   |
| 4 |   |
| 2 | code {  |
| 5 | font-family: Consolas, Monaco, Courier New, Courier, monospace; |
| 2 | font-size: 16px;  |
| 6 | background-color: #f9f9f9;                                      |
| 2 | border: 1px solid #D0D0D0;                                      |

```

7         color: #002166;
2         display: block;
8         margin: 14px 0 14px 0;
2         padding: 12px 10px 12px 10px;
9     }
3
0     #body {
3         margin: 0 15px 0 15px;
1     }
3
2     p.footer {
3         text-align: right;
3         font-size: 16px;
3         border-top: 1px solid #D0D0D0;
4         line-height: 32px;
3         padding: 0 10px 0 10px;
5         margin: 20px 0 0 0;
3     }
6
3     #container {
7         margin: 10px;
3         border: 1px solid #D0D0D0;
8         box-shadow: 0 0 8px #D0D0D0;
3     }
9     </style>
4 </head>
0 <body>
4
1 <div id="container">
4     <h1>REST Server Tests</h1>
2
4     <div id="body">
3
4         <h2><a href="<?php echo site_url(); ?>">Home</a></h2>
4
4         <p>
5             See the article
4             <a href="http://net.tutsplus.com/tutorials/php/working-with-
6 restful-services-in-codeigniter-2/" target="_blank">
4                 http://net.tutsplus.com/tutorials/php/working-with-restful-
7 services-in-codeigniter-2/
4             </a>
8         </p>
4
9         <p>
5             The master project repository is
0             <a href="https://github.com/chriskacerguis/codeigniter-
5 restserver" target="_blank">
1                 https://github.com/chriskacerguis/codeigniter-restserver
5             </a>

```

```

2      </p>
5
3      <p>
5          Click on the links to check whether the REST server is working.
4      </p>
5
5      <ol>
5          <li><a href="<?php echo site_url('api/example/users'); ?>">Users<
6 /a> - defaulting to JSON</li>
5          <li><a href="<?php echo site_url('api/example/users/format/csv');
7 ?>">Users</a> - get it in CSV</li>
5          <li><a href="<?php echo site_url('api/example/users/id/1'); ?>">U
8 ser #1</a> - defaulting to JSON (users/id/1)</li>
5          <li><a href="<?php echo site_url('api/example/users/1'); ?>">User
9 #1</a> - defaulting to JSON (users/1)</li>
6          <li><a href="<?php echo site_url('api/example/users/id/1.xml'); ?
0 >">User #1</a> - get it in XML (users/id/1.xml)</li>
6          <li><a href="<?php echo site_url('api/example/users/id/1/format/x
1 ml'); ?>">User #1</a> - get it in XML (users/id/1/format/xml)</li>
6          <li><a href="<?php echo site_url('api/example/users/id/1?format=x
2 ml'); ?>">User #1</a> - get it in XML (users/id/1?format=xml)</li>
6          <li><a href="<?php echo site_url('api/example/users/1.xml'); ?>">
3 User #1</a> - get it in XML (users/1.xml)</li>
6          <li><a id="ajax" href="<?php echo site_url('api/example/users/for
4 mat/json'); ?>">Users</a> - get it in JSON (AJAX request)</li>
6          <li><a href="<?php echo site_url('api/example/users.html'); ?>">U
5 sers</a> - get it in HTML (users.html)</li>
6          <li><a href="<?php echo site_url('api/example/users/format/html')
6 ; ?>">Users</a> - get it in HTML (users/format/html)</li>
6          <li><a href="<?php echo site_url('api/example/users?format=html')
7 ; ?>">Users</a> - get it in HTML (users?format=html)</li>
6      </ol>
8
6      </div>
9
7      <p class="footer">Page rendered in <strong>{elapsed_time}</strong> second
0 s. <?php echo (ENVIRONMENT === 'development') ? 'CodeIgniter Version <stron
7 g>'.CI_VERSION.'</strong>' : '' ?></p>
1 </div>
7
2 <script src="https://code.jquery.com/jquery-1.12.0.js"></script>
7
3 <script>
7     // Create an 'App' namespace
4     var App = App || {};
7
5     // Basic rest module using an IIFE as a way of enclosing private variable
7 s
6     App.rest = (function restModule(window) {
7         // Fields

```

```

7      var _alert = window.alert;
7      var _JSON = window.JSON;
8
7      // Cache the jQuery selector
9      var _$ajax = null;
8
0      // Cache the jQuery object
8      var $ = null;
1
8      // Methods (private)
2
8      /**
3       * Called on Ajax done
8       *
4       * @return {undefined}
8       */
5      function _ajaxDone(data) {
8          // The 'data' parameter is an array of objects that can be iterat
6 ed over
8          _alert(_JSON.stringify(data, null, 2));
7      }
8
8      /**
8       * Called on Ajax fail
9       *
9       * @return {undefined}
0       */
9      function _ajaxFail() {
1          _alert('Oh no! A problem with the Ajax request!');
9      }
2
9      /**
3       * On Ajax request
9       *
4       * @param {jQuery} $element Current element selected
9       * @return {undefined}
5       */
9      function _ajaxEvent($element) {
6          $.ajax({
9              // URL from the link that was 'clicked' on
7              url: $element.attr('href')
9              })
8              .done(_ajaxDone)
9              .fail(_ajaxFail);
9      }
1
0      /**
0       * Bind events
1       *
0       * @return {undefined}

```

```

1      */
1      function _bindEvents() {
0          // Namespace the 'click' event
2          _$ajax.on('click.app.rest.module', function (event) {
1              event.preventDefault();
0
3              // Pass this to the Ajax event function
1              _ajaxEvent($(this));
0          });
4      }
1
0      /**
5      * Cache the DOM node(s)
1      *
0      * @return {undefined}
6      */
1      function _cacheDom() {
0          _$ajax = $('#ajax');
7      }
1
0      // Public API
8      return {
1          /**
0          * Initialise the following module
9          *
1          * @param {object} jQuery Reference to jQuery
1          * @return {undefined}
0          */
1          init: function init(jQuery) {
1              $ = jQuery;
1
1              // Cache the DOM and bind event(s)
1              _cacheDom();
2              _bindEvents();
1          }
1      };
3      }(window));
1
1      // DOM ready event
4      $(function domReady($) {
1          // Initialise the App module
1          App.rest.init($);
5      });
1 </script>
1
6 </body>
1 </html>
1
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controller/api/mahasiswa.php

```
1 <?php
2
3 defined('BASEPATH') OR exit('No direct script access allowed');
4
5 require APPPATH.'libraries/REST_Controller.php';
6 require APPPATH.'libraries/Format.php';
7 use Restserver\Libraries\REST_Controller;
8
9 class Mahasiswa extends REST_Controller {
10
11     public function __construct()
12     {
13         parent::__construct();
14         $this->load->model('Mahasiswa_model','mahasiswa');
15     }
16
17     public function index_get()
18     {
19         $id = $this->get('id');
20         if($id===null){
21             $mahasiswa = $this->mahasiswa->getMahasiswa();
22         }else{
23             $mahasiswa = $this->mahasiswa->getMahasiswa($id);
24         }
25
26         if($mahasiswa){
27             $this->response([
28                 'status' => true,
29                 'data' => $mahasiswa
30             ], REST_Controller::HTTP_OK);
31         }else{
32             $this->response([
33                 'status' => false,
34                 'message' => 'id not found'
35             ], REST_Controller::HTTP_NOT_FOUND);
36         }
37     }
38 }
```

```

2     }
3 }
2
4 public function index_delete()
2 {
5     $id = $this->delete('id');
2
6     if($id===null){
2         $this->response([
7             'status' => false,
2             'message' => 'provide an id!'
8         ], REST_Controller::HTTP_BAD_REQUEST);
2     }else{
9         if($this->mahasiswa->deleteMahasiswa($id) > 0){
3             //ok
0             $this->response([
3                 'status' => true,
1                 'id' => $id,
3                 'message' => 'deleted'
2             ], REST_Controller::HTTP_OK);
3         }else{
3             //id not found
3             $this->response([
4                 'status' => false,
3                 'message' => 'id not found!'
5             ], REST_Controller::HTTP_BAD_REQUEST);
3         }
6     }
3 }
7
3 public function index_post()
8 {
3     $data = [
9         'student_name' => $this->post('student_name'),
4         'nim' => $this->post('nim'),
0         'birthplace' => $this->post('birthplace'),
4         'birthdate' => $this->post('birthdate'),
1         'majors' => $this->post('majors'),
4         'address' => $this->post('address'),
2     ];
4
3     if($this->mahasiswa->createMahasiswa($data) > 0){
4         $this->response([
4             'status' => true,
4             'message' => 'new mahasiswa has been created'
5         ], REST_Controller::HTTP_CREATED);
4     }else{
6         //id not found
4         $this->response([
7             'status' => false,

```

```

4         'message' => 'failed to create new data!'
8     ], REST_Controller::HTTP_BAD_REQUEST);
4     }
9 }
5
0 public function index_put()
5 {
1     $id = $this->put('id');
5     $data = [
2         'student_name' => $this->post('student_name'),
5         'nim' => $this->post('nim'),
3         'birthplace' => $this->post('birthplace'),
5         'birthdate' => $this->post('birthdate'),
4         'majors' => $this->post('majors'),
5         'address' => $this->post('address'),
5     ];
5
6     if($this->mahasiswa->updateMahasiswa($data, $id) > 0){
5         $this->response([
7             'status' => true,
5             'message' => 'data mahasiswa has been updated'
8         ], REST_Controller::HTTP_OK);
5     }else{
9         //id not found
6         $this->response([
0             'status' => false,
6             'message' => 'failed to update data!'
1         ], REST_Controller::HTTP_BAD_REQUEST);
6     }
2 }
6 }
3
6 /* End of file Mahasiswa.php */
4 ?>
6
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```

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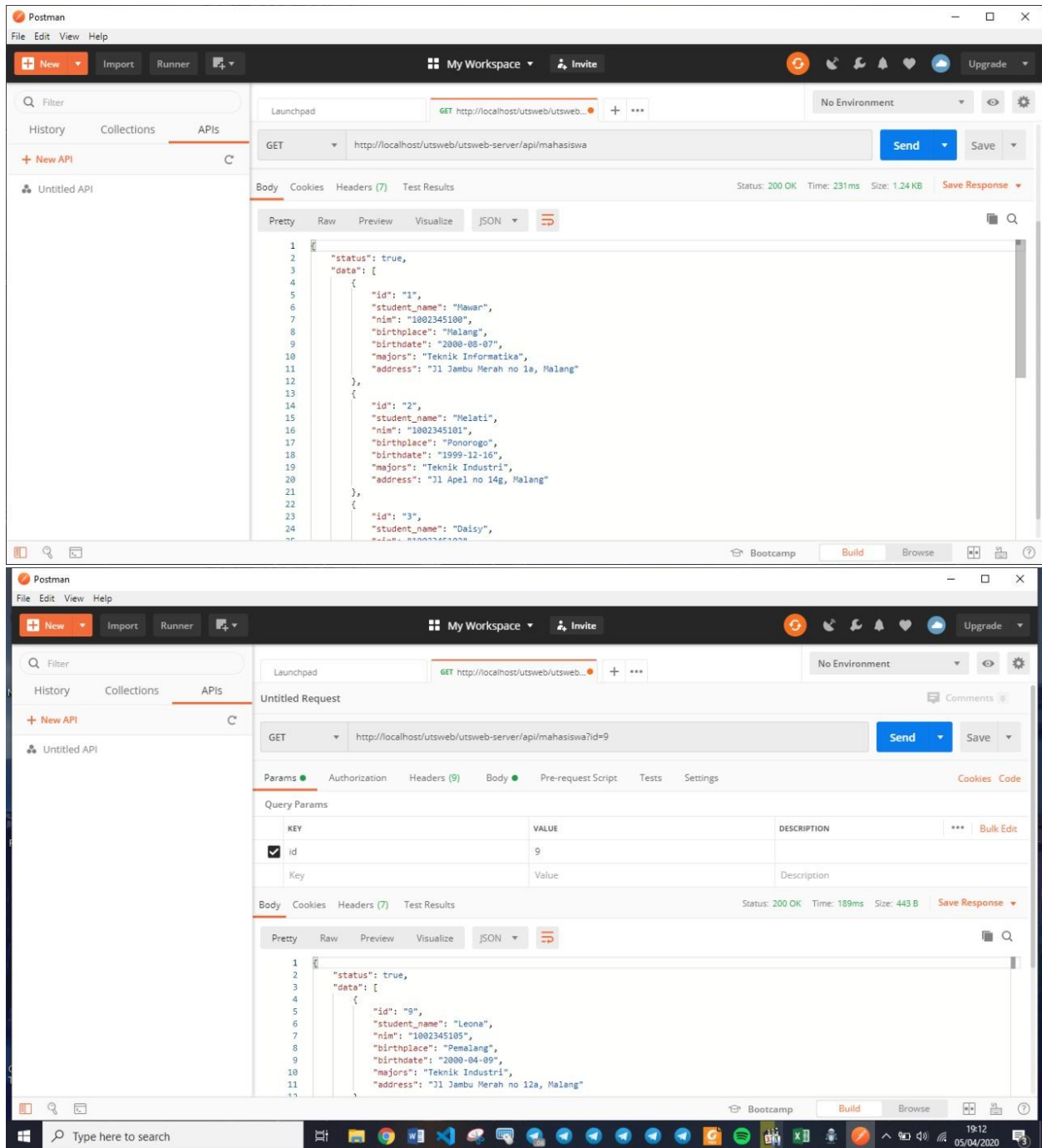


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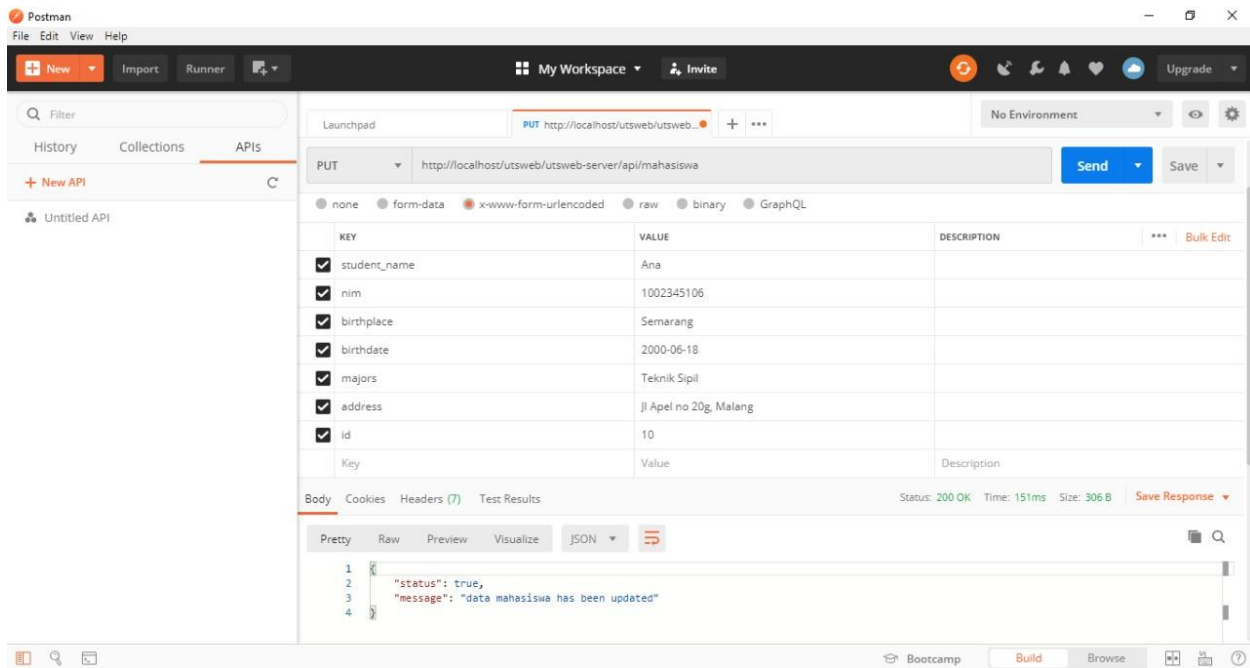
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# Postman CRUD

## GET:



## PUT:



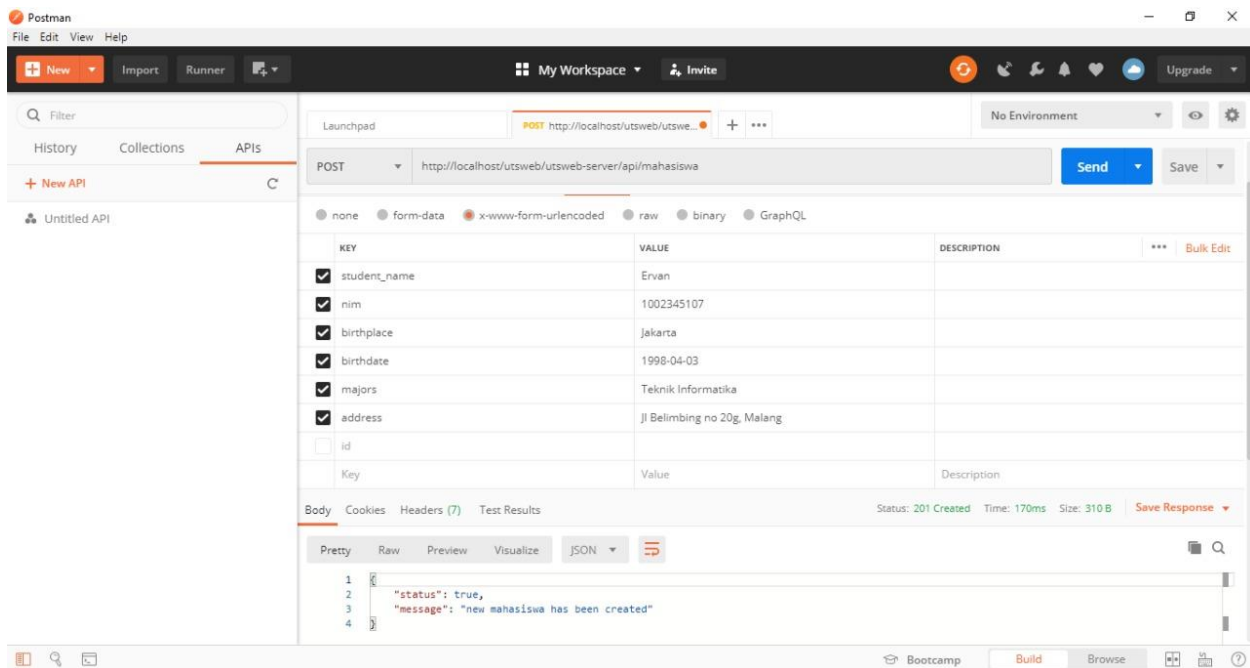
A screenshot of the Postman application showing a PUT request to the endpoint `http://localhost/utsweb/utsweb-server/api/mahasiswa`. The request is configured with the `x-www-form-urlencoded` content type. The body is a form with the following data:

| KEY  | VALUE                  | DESCRIPTION |
|--|------------------------|-------------|
| <input checked="" type="checkbox"/> student_name | Ana                    |             |
| <input checked="" type="checkbox"/> nim          | 1002345106             |             |
| <input checked="" type="checkbox"/> birthplace   | Semarang               |             |
| <input checked="" type="checkbox"/> birthdate    | 2000-06-18             |             |
| <input checked="" type="checkbox"/> majors       | Teknik Sipil           |             |
| <input checked="" type="checkbox"/> address      | Jl Apel no 20g, Malang |             |
| <input checked="" type="checkbox"/> id           | 10                     |             |
| Key  | Value                  | Description |

The response status is 200 OK, with a time of 151ms and a size of 306 B. The response body is shown in JSON format:

```
1 {
2   "status": true,
3   "message": "data mahasiswa has been updated"
4 }
```

## POST:



A screenshot of the Postman application showing a POST request to the endpoint `http://localhost/utsweb/utsweb-server/api/mahasiswa`. The request is configured with the `x-www-form-urlencoded` content type. The body is a form with the following data:

| KEY  | VALUE                       | DESCRIPTION |
|--|-----------------------------|-------------|
| <input checked="" type="checkbox"/> student_name | Ervan                       |             |
| <input checked="" type="checkbox"/> nim          | 1002345107                  |             |
| <input checked="" type="checkbox"/> birthplace   | Jakarta                     |             |
| <input checked="" type="checkbox"/> birthdate    | 1998-04-03                  |             |
| <input checked="" type="checkbox"/> majors       | Teknik Informatika          |             |
| <input checked="" type="checkbox"/> address      | Jl Belimbing no 20g, Malang |             |
| <input type="checkbox"/> id                      |                             |             |
| Key  | Value                       | Description |

The response status is 201 Created, with a time of 170ms and a size of 310 B. The response body is shown in JSON format:

```
1 {
2   "status": true,
3   "message": "new mahasiswa has been created"
4 }
```

# DELETE:

Postman interface showing a DELETE request configuration and response.

**Request Configuration:**

- Method: DELETE
- URL: http://localhost:utsweb/utsweb-server/api/mahasiswa
- Environment: No Environment

**Body Configuration:**

- Type: x-www-form-urlencoded
- Key: id
- Value: 10

**Response:**

```
1 {
2   "status": true,
3   "id": "10",
4   "message": "deleted"
5 }
```

Status: 200 OK, Time: 100ms, Size: 292 B