



MODUL CODEIGNITER PART VII

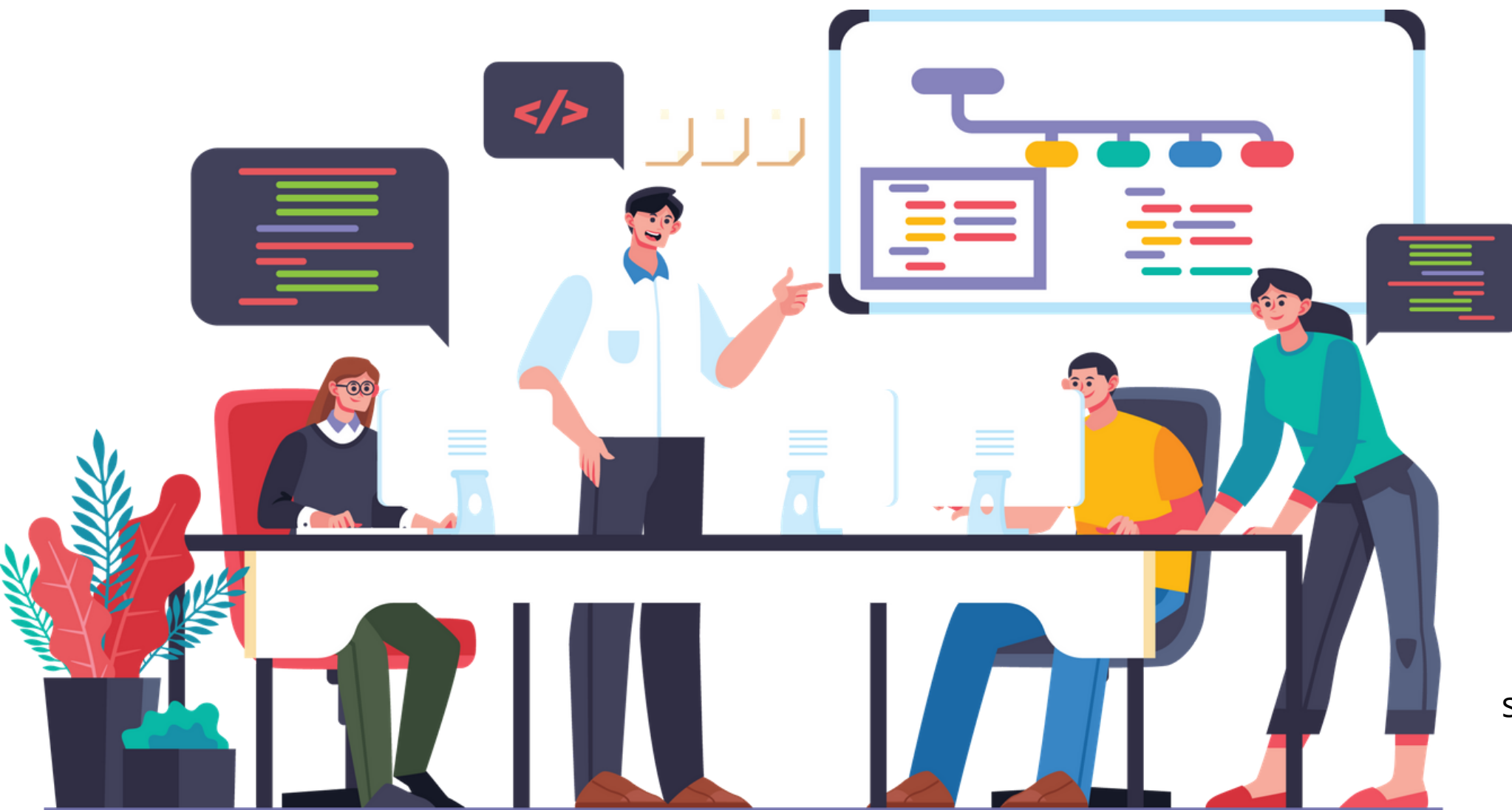
JEFRI MARULI H



FORM VALIDATION

Form Validation adalah suatu informasi atau pemberitahuan yang digunakan oleh form. Dimana informasi yang keluar dari form berupa pesan error yang sering dijumpai saat melakukan input atau registrasi bahwa input tidak boleh kosong.

sumber : <https://www.dumetschool.com/blog/validasi-form-menggunakan-php>



IMPLEMENTASI FORM VALIDATION

Konfigurasi File **autoload.php** di folder
Applicaton/config/autoload.php



```
1 $autoload['libraries'] = array('database', 'session', 'form_validation');
```



```
1 $autoload['helper'] = array('url', 'form');
```

Konfigurasi File **config.php** di folder **Applicaton/config/config.php**

```
1 $config['base_url'] = 'http://localhost/mardira/';
```



KONFIGURASI DATABASE

Konfigurasi File **database.php** di folder
Applicaton/config/database.php

















```
1
2 $db['default'] = array(
3     'dsn' => '',
4     'hostname' => 'localhost',
5     'username' => 'root',
6     'password' => '',
7     'database' => 'mardira',
8     'dbdriver' => 'mysqli',
9     'dbprefix' => '',
10    'pconnect' => FALSE,
11    'db_debug' => (ENVIRONMENT !== 'production'),
12    'cache_on' => FALSE,
13    'cachedir' => '',
14    'char_set' => 'utf8',
15    'dbcollat' => 'utf8_general_ci',
16    'swap_pre' => '',
17    'encrypt' => FALSE,
18    'compress' => FALSE,
19    'stricton' => FALSE,
20    'failover' => array(),
21    'save_queries' => TRUE
22 );
```


PERANCANGAN DATABASE








Membuat Table mahasiswa

```
CREATE TABLE mahasiswa (id_mahasiswa INT(3) PRIMARY KEY NOT NULL AUTO_INCREMENT, nim INT(10) NOT NULL, nama_mhs VARCHAR(30) NOT NULL, id_prodi INT(3) NOT NULL, INDEX(id_prodi));
```

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/>	1 id_mahasiswa 	int(3)			No	None		AUTO_INCREMENT	 Change  Drop  More
<input type="checkbox"/>	2 nim	int(10)			No	None			 Change  Drop  More
<input type="checkbox"/>	3 nama_mhs	varchar(30)	utf8mb4_general_ci		No	None			 Change  Drop  More
<input type="checkbox"/>	4 id_prodi 	int(3)			No	None			 Change  Drop  More

Membuat Table prodi










```
CREATE TABLE prodi(id_prodi INT(3) PRIMARY KEY NOT NULL
AUTO_INCREMENT, nama_prodi INT(10) NOT NULL);
```

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	id_prodi 	int(3)			No	None		AUTO_INCREMENT	 Change  Drop  More
2	nama_prodi	varchar(30)	utf8mb4_general_ci		No	None			 Change  Drop  More

INSERT DATA


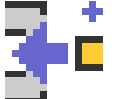



Insert Table **mahasiswa**

```
INSERT INTO mahasiswa(id_mahasiswa , nim , nama_mhs, id_prodi) VALUES  
(NULL,'18112321','Mahasiswa1','1'),  
(NULL,'18112323','Mahasiswa2','2'),  
(NULL,'181112392','Mahasiswa3','1');
```

<div><div><div>←</div><div>T</div><div>→</div></div><div></div></div>				id_mahasiswa	nim	nama_mhs	id_prodi	
<input type="checkbox"/>		Edit	 Copy	 Delete	1	18110123	Mahasiswa1	1
<input type="checkbox"/>		Edit	 Copy	 Delete	2	181101232	Mahasiswa2	1
<input type="checkbox"/>		Edit	 Copy	 Delete	3	181230233	Mahasiswa3	2

Insert Table **prodi**

```
INSERT INTO prodi (id_prodi , nama_prodi) VALUES  
(NULL,'Teknik Informatika'),  
(NULL,'Manajemen Informatika');
```

				id_prodi	nama_prodi
<input type="checkbox"/>	 Edit	 Copy	 Delete	1	Teknik Informatika
<input type="checkbox"/>	 Edit	 Copy	 Delete	2	Manajemen Informatika

MEMBUAT CONTROLLER

Buatlah Controller **Mahasiswa.php**

```
1  <?php
2
3  class Mahasiswa extends CI_Controller
4  {
5      public function __construct()
6      {
7          parent::__construct();
8          $this->load->model('Mahasiswa_model');
9      }
10
11     public function index()
12     {
13         $data['mahasiswa'] = $this->Mahasiswa_model->lihat_data();
14         $this->load->view('mahasiswa_view', $data);
15     }
16 }
```

MEMBUAT MODEL

Buatlah Model **Mahasiswa_model.php**

```
1  <?php
2
3  class Mahasiswa_model extends CI_Model
4  {
5      public function lihat_data()
6      {
7          $this->db->join('prodi', 'prodi.id_prodi = mahasiswa.id_prodi', 'left');
8          return $this->db->get('mahasiswa')->result();
9      }
10 }
```

```

<title>Data Mahasiswa </title>
<h3>Data Mahasiswa</h3>
<?php echo anchor('mahasiswa/tambah_data', 'Tambah Data') ?>
<table border="2">
    <thead>
        <tr>
            <th>No</th>
            <th>NIM</th>
            <th>Nama Mahasiswa</th>
            <th>Program Studi</th>
            <th>Aksi</th>
        </tr>
    </thead>
    <tbody>
        <?php
        $no = 1;
        foreach ($mahasiswa as $row) { ?>
            <tr>
                <td><?php echo $no++ ?></td>
                <td><?php echo $row->nim ?></td>
                <td><?php echo $row->nama_mhs ?></td>
                <td><?php echo $row->nama_prodi ?></td>
                <td>
                    <?php echo anchor("mahasiswa/edit/{ $row->id_mahasiswa}", "Edit") ?>
                    <?php echo anchor("mahasiswa/hapus/{ $row->id_mahasiswa}", "Hapus") ?>
                </td>
            </tr>
        <?php } ?>
    </tbody>
</table>
<?php
$pesan = $this->session->flashdata('pesan');
echo $pesan;
?>

```

MEMBUAT VIEW

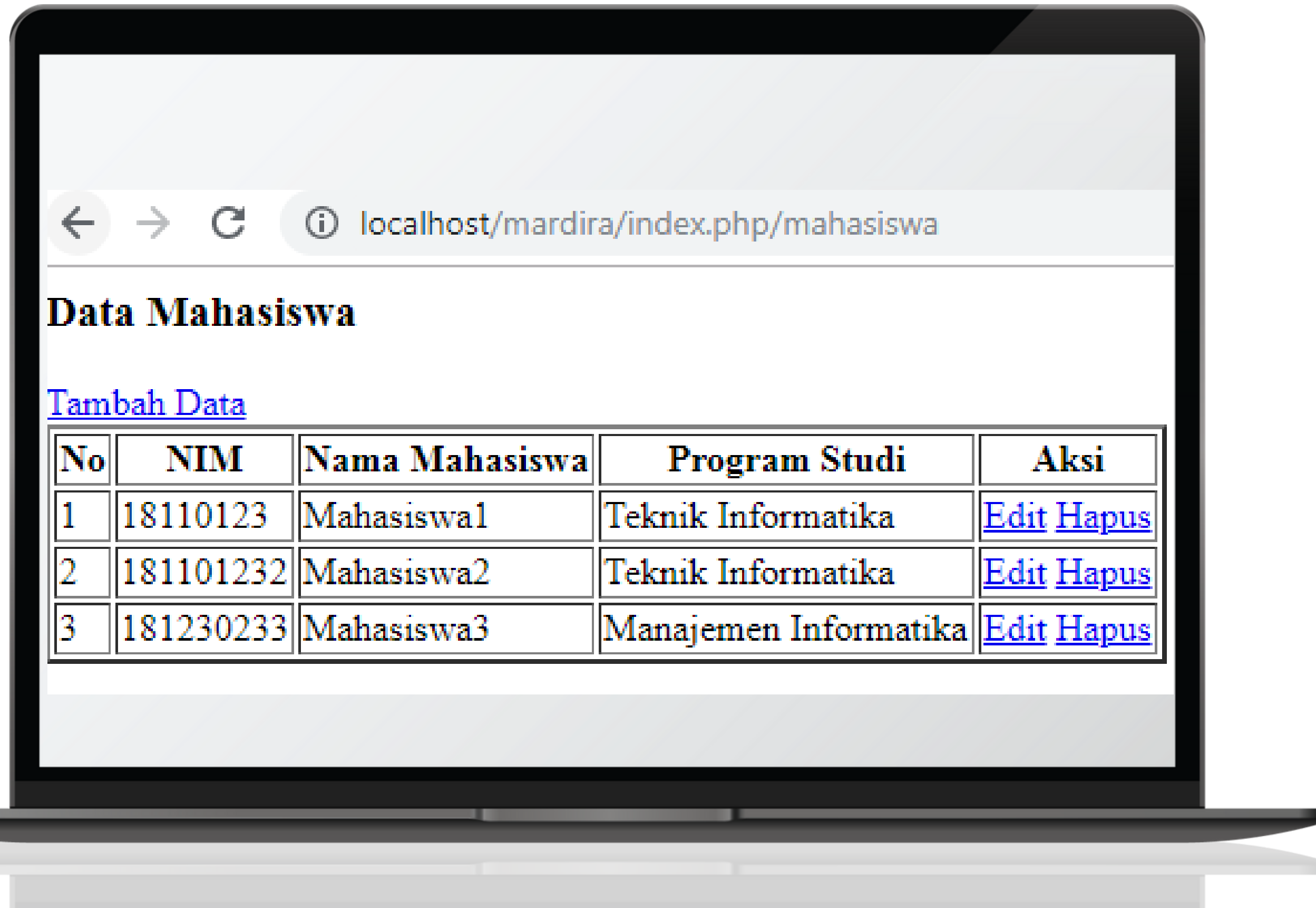
Buatlah View
mahasiswa_view.php



HASIL TAMPILAN

Akses melalui browser

localhost/mardira/index.php/mahasiswa



```

public function tambah_data()
{
    $form_open = form_open('mahasiswa/tambah_aksi');
    $label_nim = form_label('NIM', 'nim');
    $label_nama = form_label('Nama Mahasiswa', 'nama_mhs');
    $label_prodi = form_label('Program Studi', 'prodi');
    $attr_id = array(
        'type' => 'hidden',
        'name' => 'id_mahasiswa',
        'value' => set_value('id_mahasiswa')
    );
    $input_nim = form_input('nim');
    $input_nama = form_input('nama_mhs');
    $input_id = form_input($attr_id);
    $get_prodi = $this->Mahasiswa_model->get_prodi();
    $prodi = array();
    foreach ($get_prodi as $r) {
        $prodi[$r->id_prodi] = $r->nama_prodi;
    }
    $dropdown_prodi = form_dropdown('prodi', $prodi);
    $form_submit = form_submit('submit', 'simpan');
    $data = array(
        'form_open' => $form_open,
        'label_nim' => $label_nim,
        'label_nama' => $label_nama,
        'label_prodi' => $label_prodi,
        'input_id' => $input_id,
        'input_nim' => $input_nim,
        'input_nama' => $input_nama,
        'dropdown_prodi' => $dropdown_prodi,
        'form_submit' => $form_submit,
    );
    $this->load->view('mahasiswa_form', $data);
}

```

TAMBAH DATA

Di bagian Controller **Mahasiswa.php**
tambahkan fungsi seperti digambar



Di bagian Model **Mahasiswa_model.php**
tambahkan fungsi seperti digambar

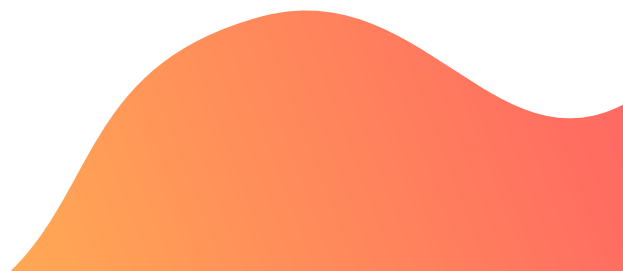
```
1  <?php
2
3  class Mahasiswa_model extends CI_Model
4  {
5      public function lihat_data()
6      {
7          $this->db->join('prodi', 'prodi.id_prodi = mahasiswa.id_prodi', 'left');
8          return $this->db->get('mahasiswa')->result();
9      }
10
11     public function get_prodi()
12     {
13         return $this->db->get('prodi')->result();
14     }
15
16     public function insert_data($data)
17     {
18         return $this->db->insert('mahasiswa', $data);
19     }
20 }
```




```
1  <h3>Tambah Data</h3>
2
3  <?php echo $form_open ?>
4  <p>
5      <?php echo $label_nim ?>
6      <?php echo $input_nim ?>
7  </p>
8  <p>
9      <?php echo $label_nama ?>
10     <?php echo $input_nama ?>
11 </p>
12 <p>
13     <?php echo $label_prodi ?>
14     <?php echo $dropdown_prodi ?>
15 </p>
16 <p>
17     <?php echo $form_submit ?>
18 </p>
19 <?php echo form_close() ?>
```

MEMBUAT VIEW

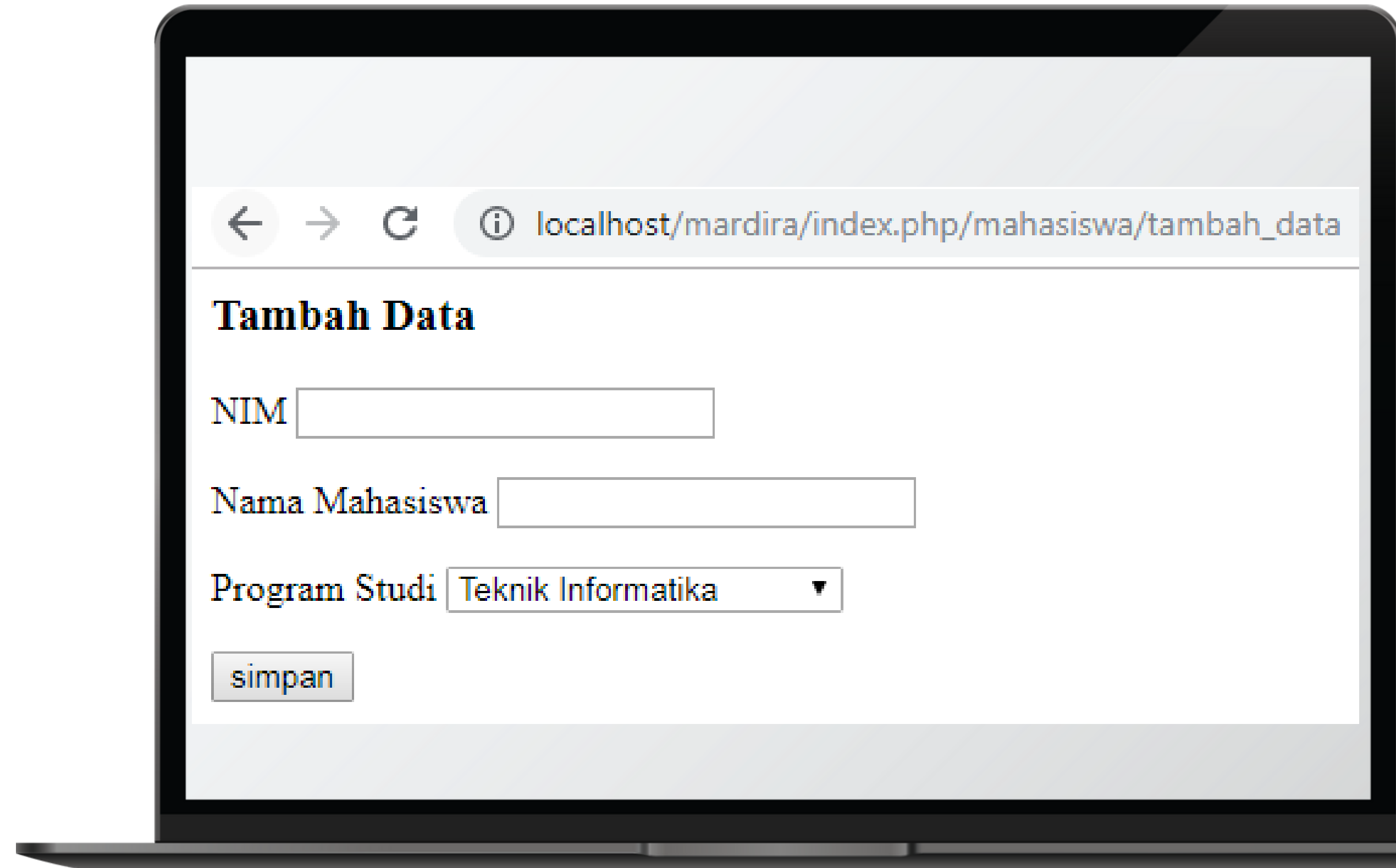
Buatlah View **mahasiswa_form.php**



HASIL TAMPILAN

Akses melalui browser

localhost/mardira/index.php/mahasiswa/tambah_data



The screenshot shows a web browser window with the address bar displaying `localhost/mardira/index.php/mahasiswa/tambah_data`. The page content includes a heading **Tambah Data** and three input fields: **NIM** (text input), **Nama Mahasiswa** (text input), and **Program Studi** (dropdown menu with 'Teknik Informatika' selected). A **simpan** button is located at the bottom left of the form.

MEMBUAT VALIDASI

Di bagian Controller **Mahasiswa.php** tambahkan fungsi seperti digambar

```
public function _rules()
{
    $attr_nim = array(
        'required' => 'NIM harus diisi!',
        'min_length' => 'NIM minimal 8 karakter!',
        'max_length' => 'NIM melebihi 8 karakter!',
        'numeric' => 'NIM tidak menggunakan huruf!'
    );
    $attr_nama = array(
        'required' => 'Nama mahasiswa harus diisi!',
        'min_length' => 'Nama mahasiswa minimal 5 karakter!',
        'max_length' => 'Nama mahasiswa maksimal 30 karakter!',
    );
    $this->form_validation->set_rules('nim', 'NIM', 'trim|required|numeric|min_length[8]|max_length[8]', $attr_nim);
    $this->form_validation->set_rules('nama_mhs', 'Nama Mahasiswa', 'trim|required|min_length[5]|max_length[50]', $attr_nama);
}
```

```
1 $get_prodi = $this->Mahasiswa_model->get_prodi();
2 $prodi = array();
3 foreach ($get_prodi as $r) {
4     $prodi[$r->id_prodi] = $r->nama_prodi;
5 }
6 $dropdown_prodi = form_dropdown('prodi', $prodi);
7 $form_submit = form_submit('submit', 'simpan');
8
9 $error_nim = form_error('nim');
10 $error_nama = form_error('nama_mhs');
11 $data = array(
12     'form_open' => $form_open,
13     'label_nim' => $label_nim,
14     'label_nama' => $label_nama,
15     'label_prodi' => $label_prodi,
16     'input_nim' => $input_nim,
17     'input_nama' => $input_nama,
18     'dropdown_prodi' => $dropdown_prodi,
19     'form_submit' => $form_submit,
20     'error_nim' => $error_nim,
21     'error_nama' => $error_nama,
22 );
```

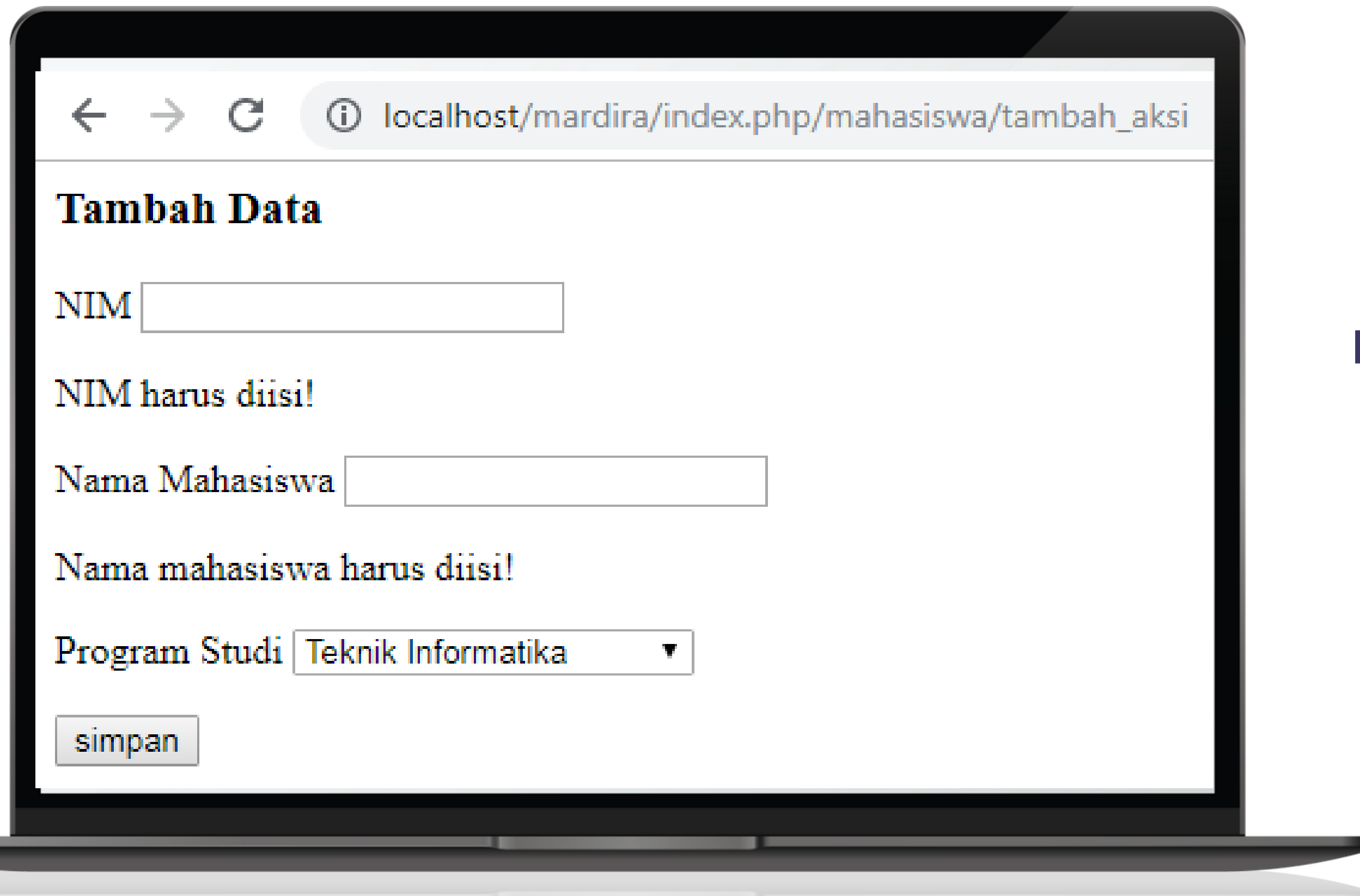
MEMBUAT FORM ERROR

Di bagian Fungsi tambah_data() di Controller **Mahasiswa.php** tambahkan baris kode seperti digambar

```
1 <h3>Tambah Data</h3>
2
3 <?php echo $form_open ?>
4 <p>
5     <?php echo $label_nim ?>
6     <?php echo $input_nim ?>
7     <?php echo $error_nim ?>
8 </p>
9 <p>
10    <?php echo $label_nama ?>
11    <?php echo $input_nama ?>
12    <?php echo $error_nama ?>
13 </p>
14 <p>
15    <?php echo $label_prodi ?>
16    <?php echo $dropdown_prodi ?>
17 </p>
18 <p>
19    <?php echo $form_submit ?>
20 </p>
21 <?php echo form_close() ?>
```

DI bagian View **mahasiswa_form.php**
tambahkan baris kode seperti di gambar

HASIL TAMPILAN



The screenshot shows a web browser window with the address bar displaying `localhost/mardira/index.php/mahasiswa/tambah_aksi`. The page title is "Tambah Data". The form contains three fields: "NIM" (empty), "Nama Mahasiswa" (empty), and "Program Studi" (a dropdown menu with "Teknik Informatika" selected). Below the "NIM" field is a red error message "NIM harus diisi!". Below the "Nama Mahasiswa" field is a red error message "Nama mahasiswa harus diisi!". At the bottom left is a "simpan" button.

← → ↻ ⓘ localhost/mardira/index.php/mahasiswa/tambah_aksi

Tambah Data

NIM

NIM harus diisi!

Nama Mahasiswa

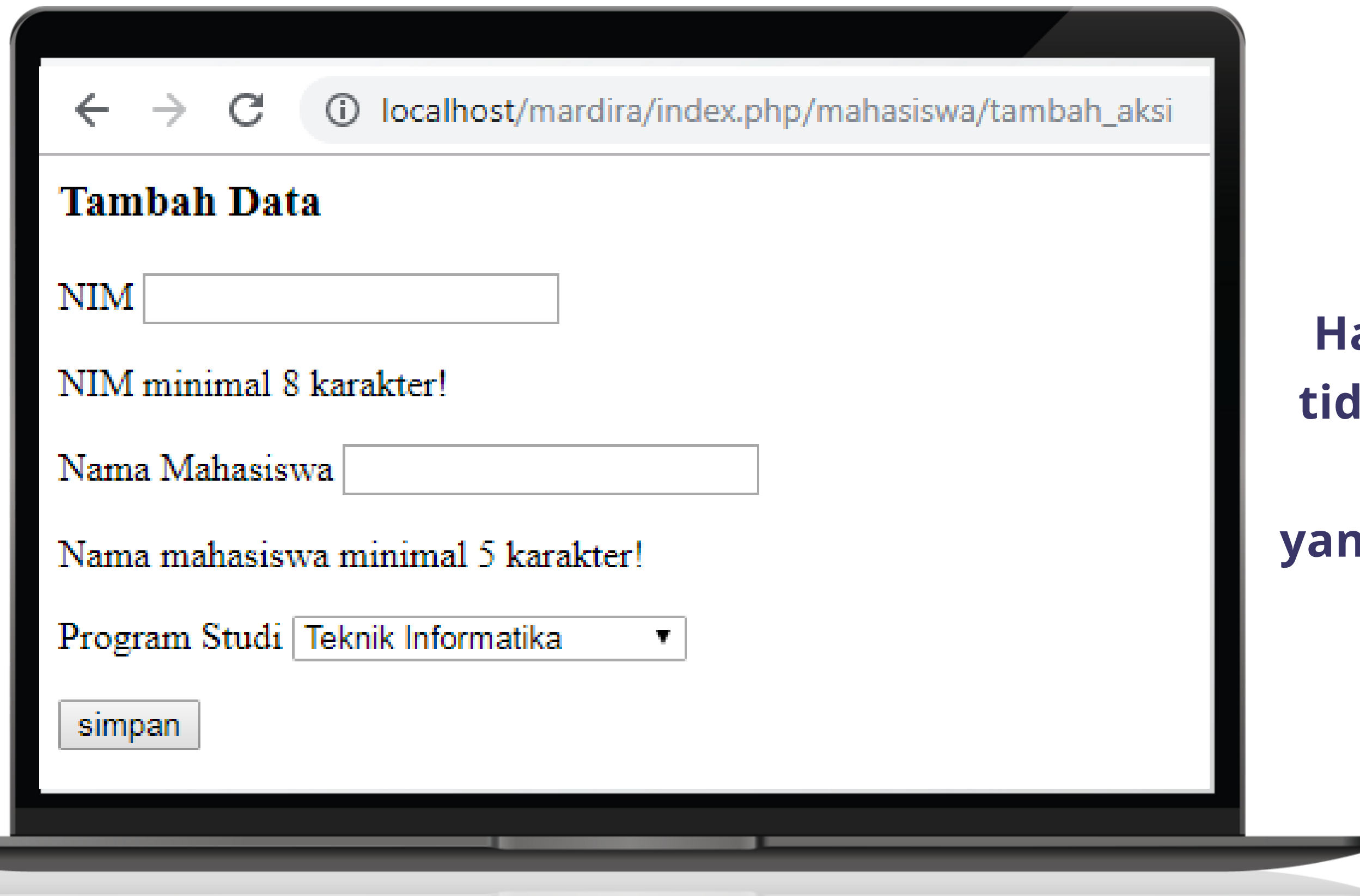
Nama mahasiswa harus diisi!

Program Studi

simpan

Hasil validasi jika formulir
tidak diisi atau kosong

HASIL TAMPILAN

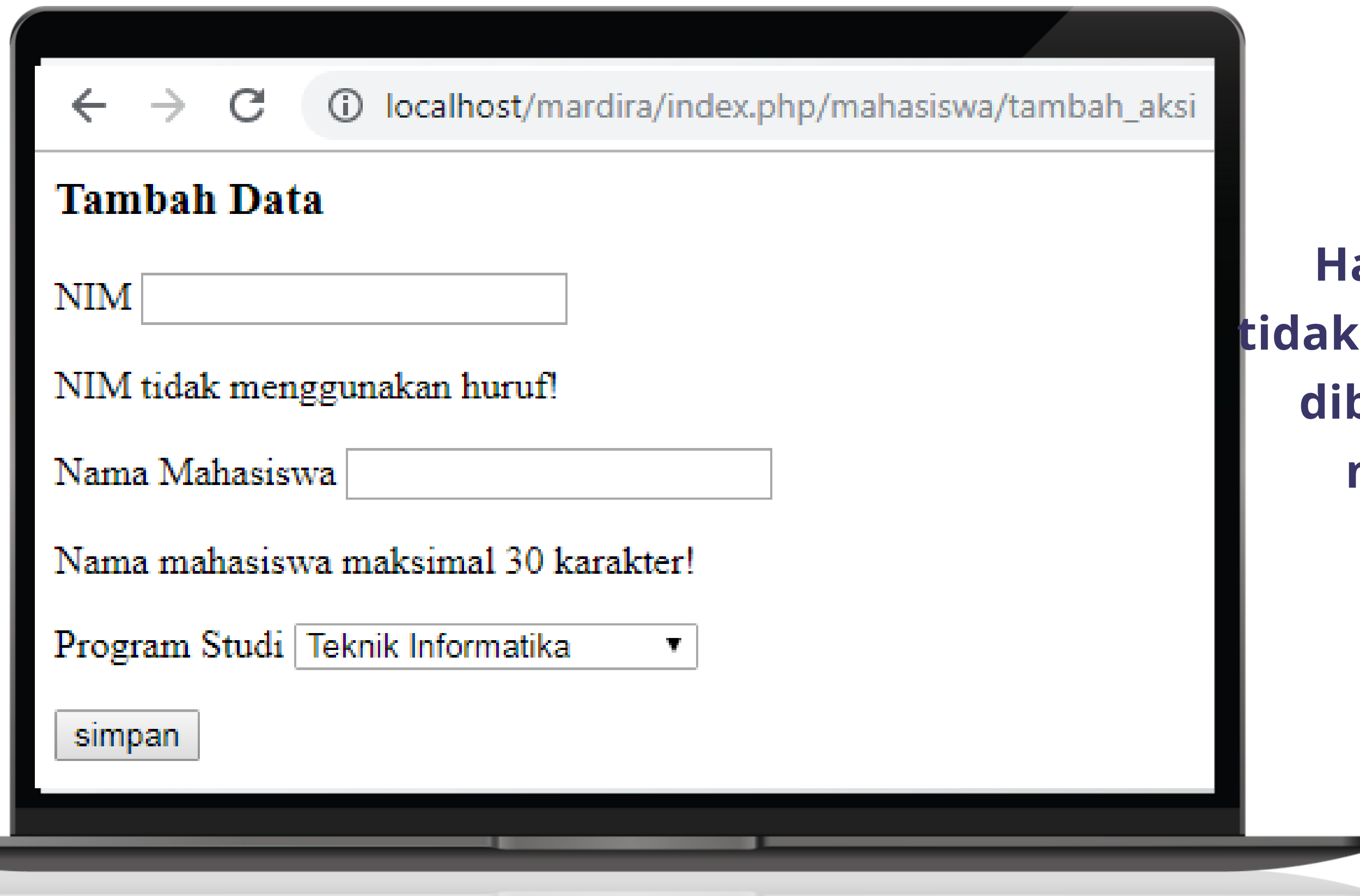


The screenshot shows a web browser window with the address bar displaying `localhost/mardira/index.php/mahasiswa/tambah_aksi`. The page title is "Tambah Data". The form contains the following elements:

- A text input field for "NIM".
- A validation message: "NIM minimal 8 karakter!".
- A text input field for "Nama Mahasiswa".
- A validation message: "Nama mahasiswa minimal 5 karakter!".
- A dropdown menu for "Program Studi" with "Teknik Informatika" selected.
- A "simpan" button.

Hasil validasi jika formulir tidak sesuai dengan jumlah karakter yang dibutuhkan oleh sistem.

HASIL TAMPILAN



The screenshot shows a web browser window with the address bar displaying 'localhost/mardira/index.php/mahasiswa/tambah_aksi'. The page title is 'Tambah Data'. The form contains three input fields: 'NIM', 'Nama Mahasiswa', and 'Program Studi'. The 'NIM' field has a validation error message 'NIM tidak menggunakan huruf!'. The 'Nama Mahasiswa' field has a validation error message 'Nama mahasiswa maksimal 30 karakter!'. The 'Program Studi' field is a dropdown menu with 'Teknik Informatika' selected. A 'simpan' button is located at the bottom left of the form.

← → ↻ ⓘ localhost/mardira/index.php/mahasiswa/tambah_aksi

Tambah Data

NIM

NIM tidak menggunakan huruf!

Nama Mahasiswa

Nama mahasiswa maksimal 30 karakter!

Program Studi

simpan

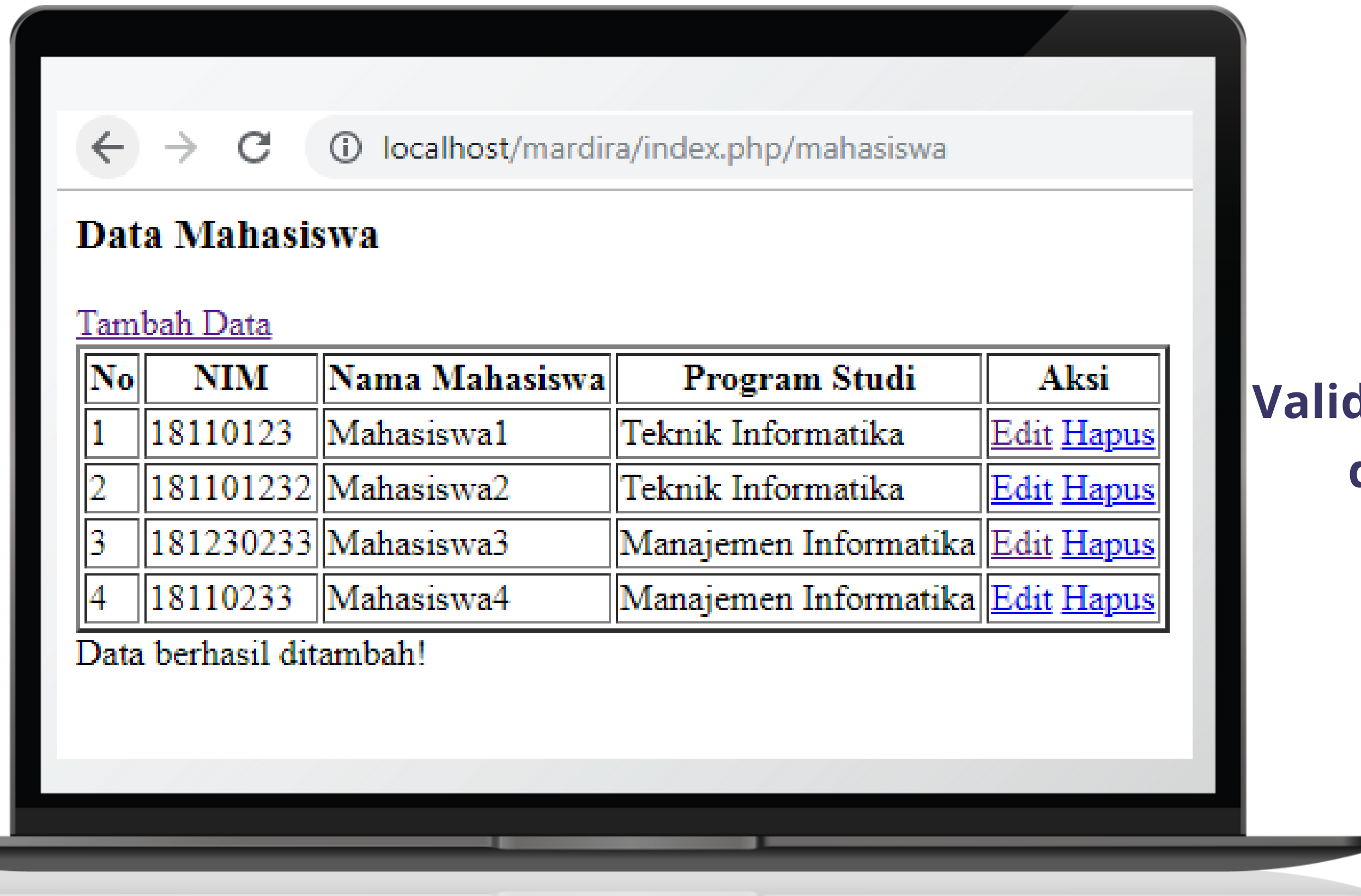
Hasil validasi jika formulir tidak sesuai dengan format yang dibutuhkan oleh sistem dan melebihi batas karakter maksimum

MEMBUAT TAMBAH AKSI

Di bagian Controller **Mahasiswa.php**
tambahkan fungsi seperti digambar

```
public function tambah_aksi()
{
    $this->_rules();
    $validasi = $this->form_validation->run();
    if ($validasi == FALSE) {
        $this->tambah_data();
    } else {
        $nim = $this->input->post('nim');
        $nama_mhs = $this->input->post('nama_mhs');
        $prodi = $this->input->post('prodi');
        $data = array(
            'nim' => $nim,
            'nama_mhs' => $nama_mhs,
            'id_prodi' => $prodi,
        );
        $this->Mahasiswa_model->insert_data($data);
        $this->session->set_flashdata('pesan', 'Data berhasil ditambah!');
        redirect('mahasiswa');
    }
}
```

HASIL TAMPILAN



Validasi pesan akan muncul jika data berhasil ditambah.

```

public function edit($id)
{
    $get_row = $this->Mahasiswa_model->get_row($id);
    if ($get_row->num_rows() > 0) {
        $row = $get_row->row();
        $id_mahasiswa = $row->id_mahasiswa;
        $attr_id = array(
            'type' => 'hidden',
            'name' => 'id_mahasiswa',
            'value' => set_value('id_mahasiswa', $id_mahasiswa)
        );
        $nim = $row->nim;
        $nama_mhs = $row->nama_mhs;
        $id_prodi = $row->id_prodi;
        $form_open = form_open('mahasiswa/edit_aksi');
        $label_nim = form_label('NIM', 'nim');
        $label_nama = form_label('Nama Mahasiswa', 'nama_mhs');
        $label_prodi = form_label('Program Studi', 'prodi');
        $input_nim = form_input('nim', $nim);
        $input_nama = form_input('nama_mhs', $nama_mhs);
        $input_id = form_input($attr_id);
        $get_prodi = $this->Mahasiswa_model->get_prodi();
        $prodi = array();
        foreach ($get_prodi as $r) {
            $prodi[$r->id_prodi] = $r->nama_prodi;
        }
        $dropdown_prodi = form_dropdown('prodi', $prodi, $id_prodi);
        $form_submit = form_submit('submit', 'simpan');
        $error_nim = form_error('nim');
        $error_nama = form_error('nama_mhs');
        $data = array(
            'form_open' => $form_open,
            'label_nim' => $label_nim,
            'label_nama' => $label_nama,
            'label_prodi' => $label_prodi,
            'input_nim' => $input_nim,
            'input_id' => $input_id,
            'input_nama' => $input_nama,
            'dropdown_prodi' => $dropdown_prodi,
            'form_submit' => $form_submit,
            'error_nim' => $error_nim,
            'error_nama' => $error_nama,
        );
        $this->load->view('mahasiswa_form', $data);
    } else {
        $this->session->set_flashdata('pesan', 'Data tidak ditemukan!');
        redirect('mahasiswa');
    }
}

```

EDIT DATA

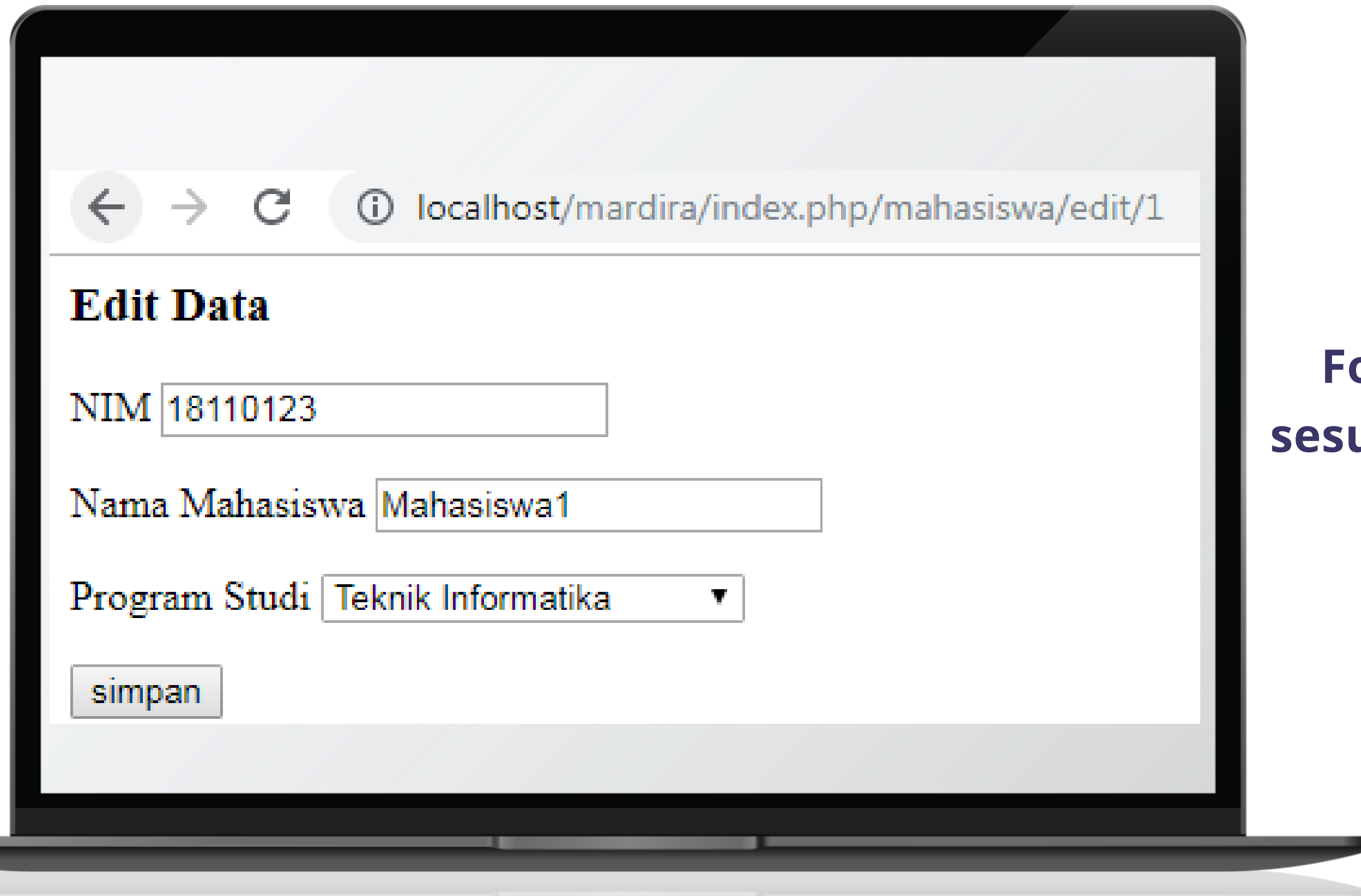
Di bagian Controller **Mahasiswa.php** tambahkan fungsi seperti digambar



Di bagian Model **Mahasiswa_model.php**
tambahkan fungsi seperti digambar

```
1 public function get_row($id)
2 {
3     return $this->db->where('id_mahasiswa', $id)->get('mahasiswa');
4 }
5
6 public function update_data($id, $data)
7 {
8     return $this->db->where('id_mahasiswa', $id)->update('mahasiswa', $data);
9 }
```

HASIL TAMPILAN



The screenshot shows a web browser window with the address bar displaying `localhost/mardira/index.php/mahasiswa/edit/1`. The page title is "Edit Data". The form contains three input fields: "NIM" with the value "18110123", "Nama Mahasiswa" with the value "Mahasiswa1", and "Program Studi" with a dropdown menu showing "Teknik Informatika". A "simpan" button is located at the bottom left of the form.

← → ↻ ⓘ localhost/mardira/index.php/mahasiswa/edit/1

Edit Data

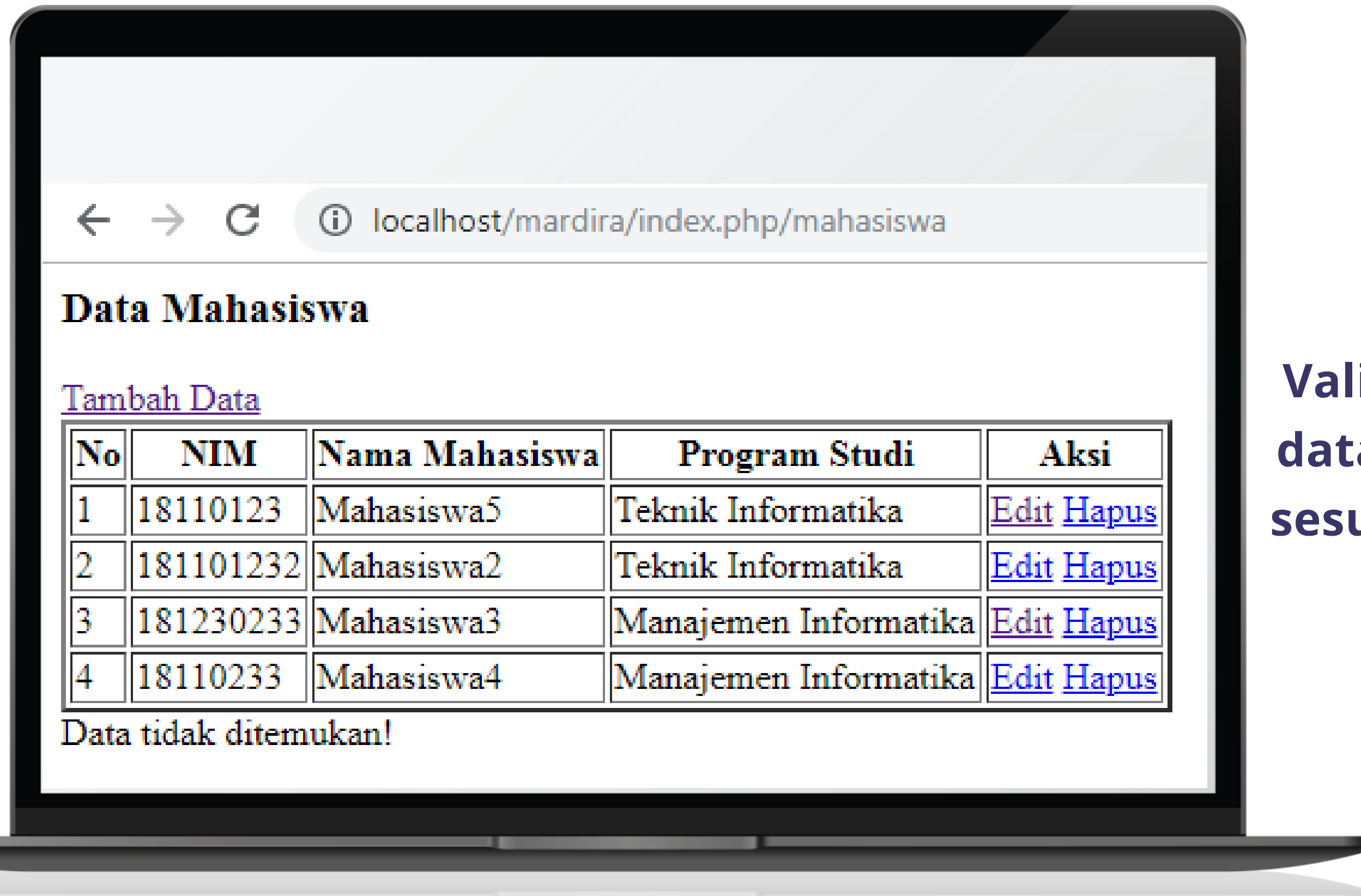
NIM

Nama Mahasiswa

Program Studi

Form edit akan tampil jika id sesuai dengan id yang tercantum di database

HASIL TAMPILAN



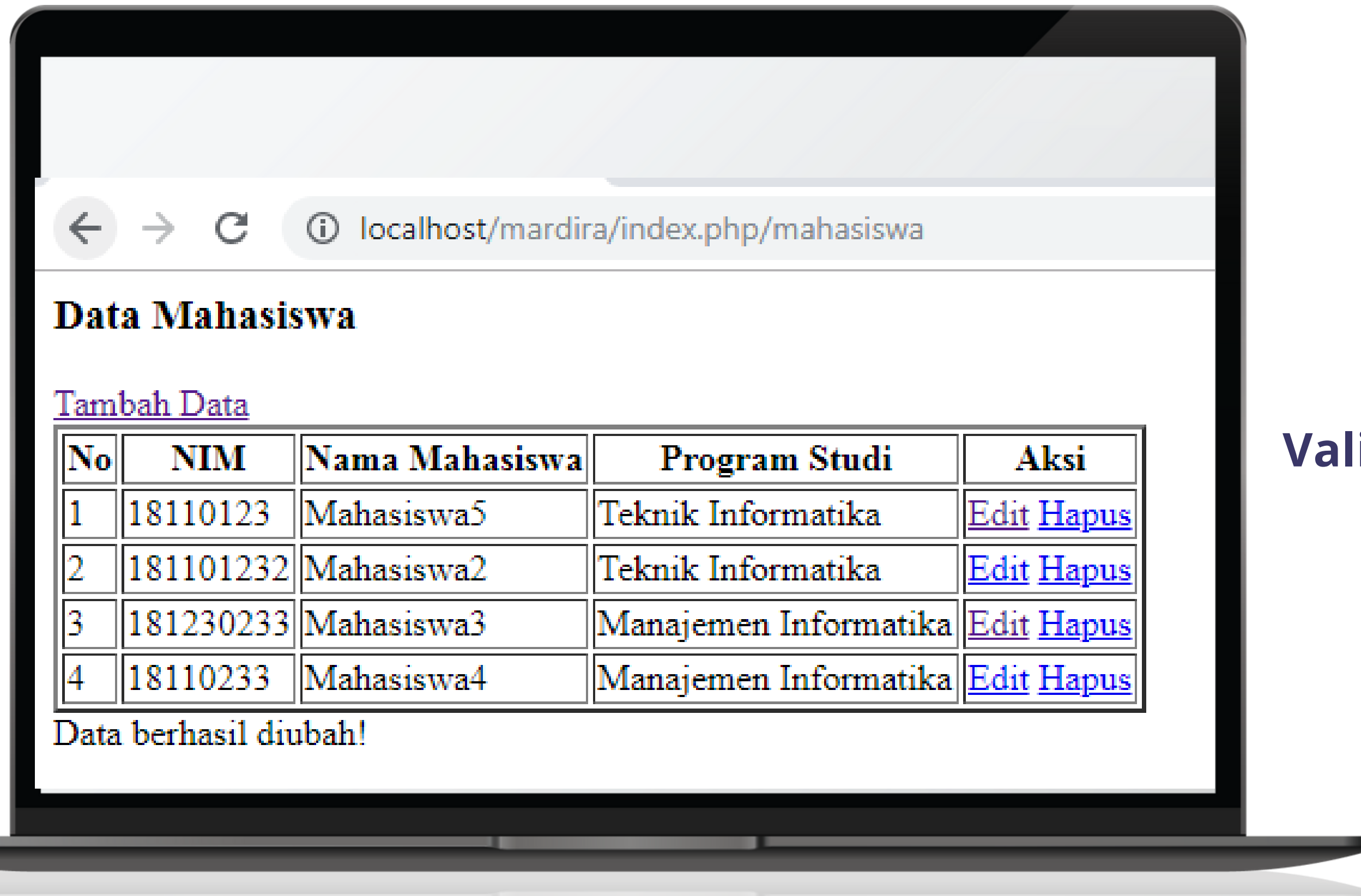
Validasi pesan akan muncul jika data tidak ditemukan atau tidak sesuai dengan id yang tercantum di database.

MEMBUAT EDIT AKSI

```
public function edit_aksi()
{
    $this->_rules();
    $validasi = $this->form_validation->run();
    $id = $this->input->post('id_mahasiswa');
    if ($validasi == FALSE) {
        $this->edit($id);
    } else {
        $nim = $this->input->post('nim');
        $nama_mhs = $this->input->post('nama_mhs');
        $prodi = $this->input->post('prodi');
        $data = array(
            'nim' => $nim,
            'nama_mhs' => $nama_mhs,
            'id_prodi' => $prodi,
        );
        $this->Mahasiswa_model->update_data($id, $data);
        $this->session->set_flashdata('pesan', 'Data berhasil diubah!');
        redirect('mahasiswa');
    }
}
```

Di bagian Controller
Mahasiswa.php
tambahkan fungsi seperti
digambar

HASIL TAMPILAN



Validasi pesan akan muncul jika data berhasil diubah.

HAPUS DATA

Di bagian Controller **Mahasiswa.php**
tambahkan fungsi seperti digambar



```
1  public function hapus($id)
2  {
3      $id = $this->uri->segment(3);
4      $this->Mahasiswa_model->delete_data($id);
5      $this->session->set_flashdata('pesan', 'Data berhasil dihapus!');
6      redirect('mahasiswa');
7  }
```

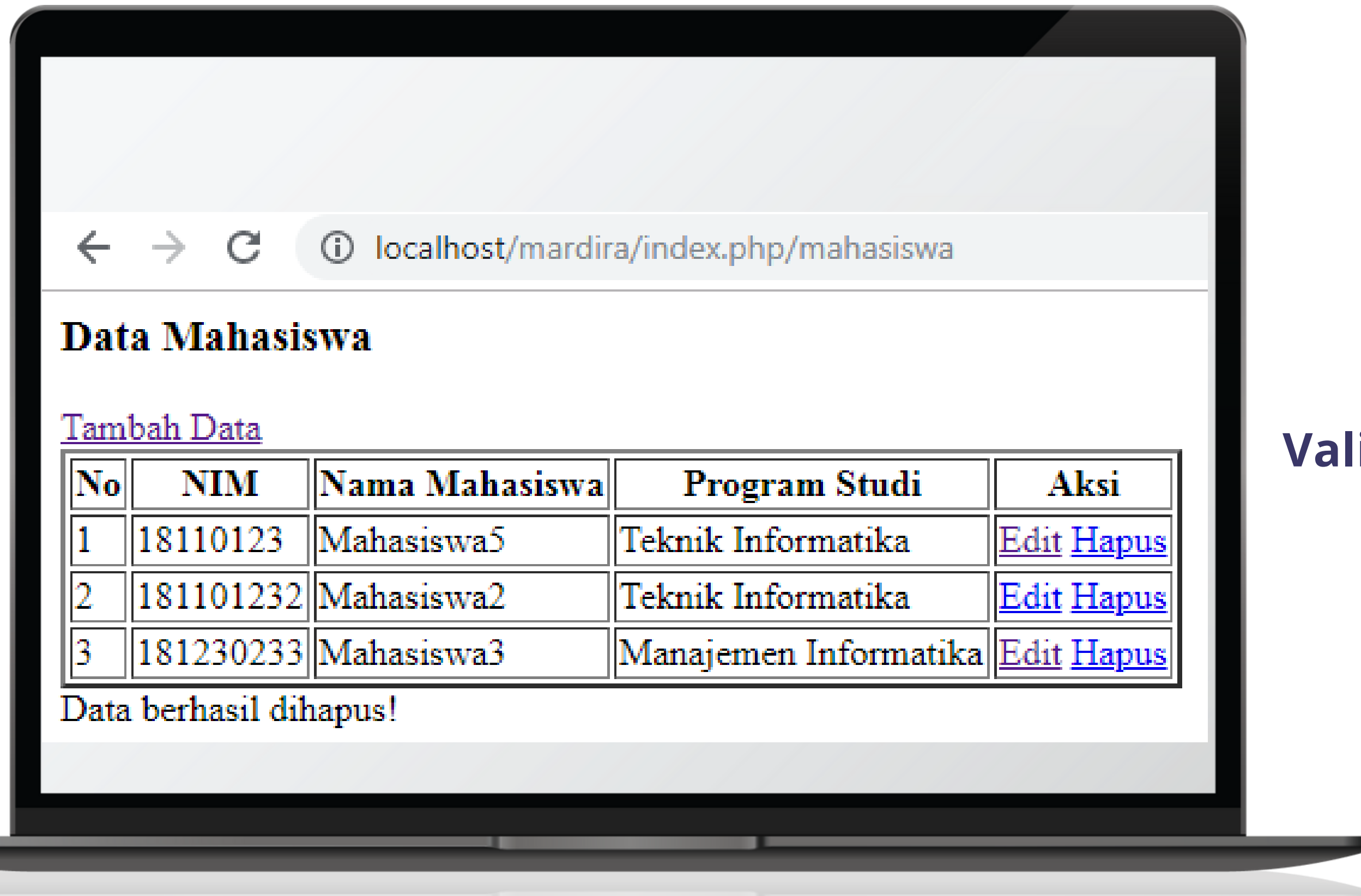
Di bagian Model **Mahasiswa_model.php**
tambahkan fungsi seperti digambar



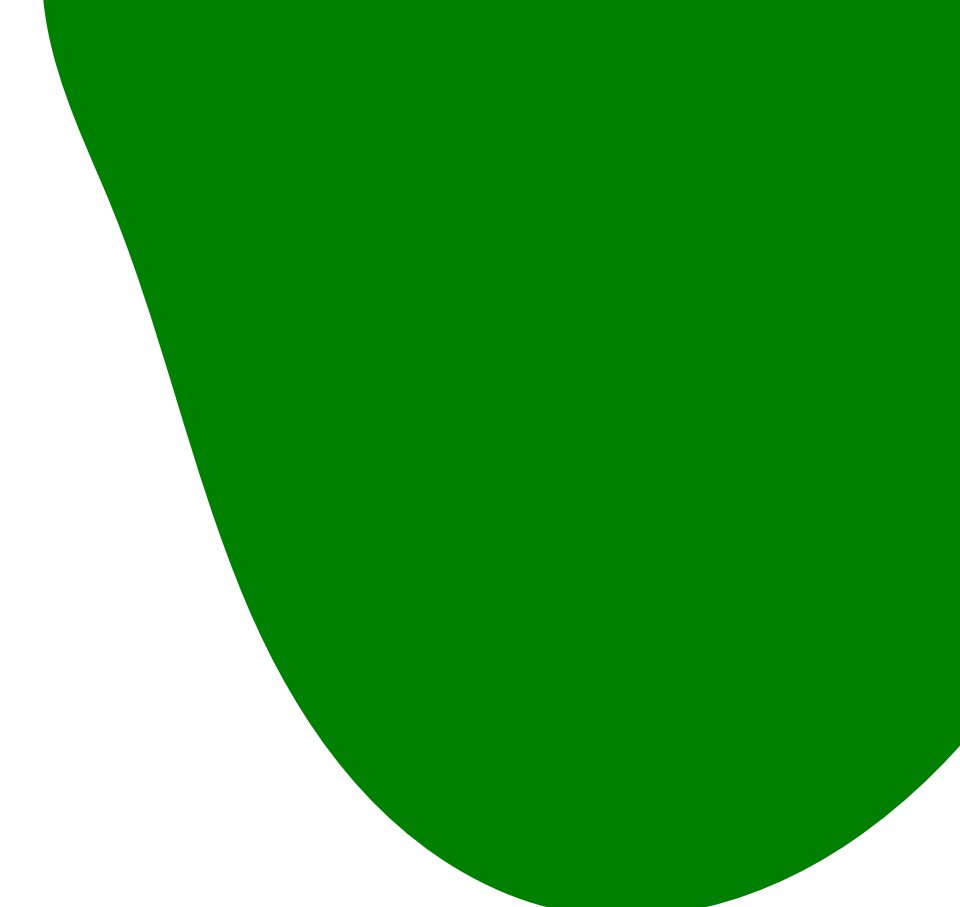

```
1 public function delete_data($id)
2 {
3     return $this->db->where('id_mahasiswa', $id)->delete('mahasiswa');
4 }
```



HASIL TAMPILAN



Validasi pesan akan muncul jika data berhasil dihapus.



TERIMA KASIH