LAPORAN PRAKTIKUM

PEMROGRAMAN WEB LANJUT
LARAVEL CRUD

Oleh:

A.SAFA DHIATA

TI 2B / **1941723012**

TEKNIK INFORMATIKA

TEKNOLOGI INFORMASI

POLITEKNIK NEGERI MALANG

2020

Praktikum – Bagian 1: Membuat CRUD di Laravel menggunakan Query Builder

a. Konfigurasi Database dan Pembuatan Tabel di MySQL

1 Membuat project Laravel baru

```
D:\Ampps\www>laravel new laravel-crud
Crafting application...
Loading composer repositories with package information
Installing dependencies (including require-dev) from lock file
Package operations: 92 installs, 0 updates, 0 removals
  - Installing doctrine/inflector (1.3.1): Loading from cache
  - Installing doctrine/lexer (1.2.0): Loading from cache
```

2 Setting .env pada project

```
.env
APP_NAME=Laravel
APP_ENV=local
APP_KEY=base64:rvlbnJK2cBxy+uKBf4gvGDgZh93tYn9f9W7Gcsjm45g=
APP_DEBUG=true
APP_URL=http://localhost

LOG_CHANNEL=stack

DB_CONNECTION=mysql
DB_HOST=127.0.0.1
DB_PORT=3306
DB_DATABASE=latihan_laravel
DB_USERNAME=root
DB_PASSWORD=mysql
```

3 Membuat tabel Mahasiswa

Server: localhost » Database: latihan_laravel » Table: mahasiswa

Browse | Structure | SQL | Search | Insert

Table structure | Relation view

#	Name	Type	Collation	Attributes	Null	Default
1	id	int(11)			No	None
2	nama	varchar(100)	utf8mb4_general_ci		No	None
3	nim	varchar(10)	utf8mb4_general_ci		No	None
4	email	varchar(50)	utf8mb4_general_ci		No	None
5	jurusan	varchar(20)	utf8mb4_general_ci		No	None

4 Mengisi data tabel

+ Opsi

	id	nama	nim	email	jurusan	created_at	updated_at
Ubah Salin Hapus	1922	A.safa Dhiata	1941723012	safadhi54@gmail.com	teknologi informasi	2020-04-02 12:33:19	2020-04-24 12:33:19
Ubah Salin Hapus	5718977	ahlika ilman alhafidhu	51616484	hafinong@gamil.com	SD	NULL	NULL
Ubah Salin Hapus	5718979	anita	80989089	anitasari@gmail.com	keperawatan	NULL	NULL

b. Menampilkan Data dari Database

1 Membuat route

```
Route::get('/', 'MahasiswaController@index');
```

2 Membuat Controller Mahasiswa

```
D:\Ampps\www\laravel-crud>php artisan make:controller MahasiswaController
Controller created successfully.
```

3

Membuat index MahasiswaController

```php
use Illuminate\Http\Request;
use Illuminate\Support\Facades\DB;

class MahasiswaController extends Controller
{
    public function index(){
        $mahasiswa = DB::table('mahasiswa')->get();
        return view('index',['mahasiswa' => $mahasiswa]);
    }
}
```

4

Membuat **master.blade.php**

```html
<!doctype html>
<html lang="en">
  <head>
    <title>@yield('title')</title>
    <!-- Required meta tags -->
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-

    <!-- Bootstrap CSS -->
    <link rel="stylesheet" href="https://stackpath.bootstrapcdn
  </head>
  <body>
    <div class="container">
        <div class="row mt-3">
            <div class="col-md-6">
                <div class="card">
                    <div class="card-header text-center">
                        <h2>@yield('judul_halaman')</h2>
                    </div>
                    <div class="card-body">
                        @yield('konten')
                    </div>
                </div>
            </div>
        </div>
    </div>
  </body>
</html>
```

5

Membuat **index.blade.php**

```php
@extends('master')
@section('title', 'Home')
@section('judul_halaman', 'Data Mahasiswa')

@section('konten')
    <a href="/mahasiswa/tambah" class="btn btn-primary">Tambah Data Mahasiswa</a>
    <br><br>
    <table class="table table-striped table-bordered table-hover">
        <thead class="thead-inverse">
            <tr>
                <th>Nama</th>
                <th>NIM</th>
            </tr>
            </thead>
            <tbody>
                @foreach($mahasiswa as $mhs)
                <tr>
                    <td scope="row">{{ $mhs->nama }}</td>
                    <td>{{ $mhs->nim }}</td>
                </tr>
                @endforeach
            </tbody>
    </table>
@endsection
```

6 Tampilan

Nama	NIM
A.safa Dhiata	1941723012
ahlika ilman alhafidhu	51616484
dama pinter	658146
anita	80989089

c. Memasukkan Data (Create) ke Database

1 Membuat route create

```php
Route::get('/mahasiswa/tambah', 'MahasiswaController@tambah');
```

2 Membuat method tambah

```php
public function tambah(){
    return view('tambah');
}
```

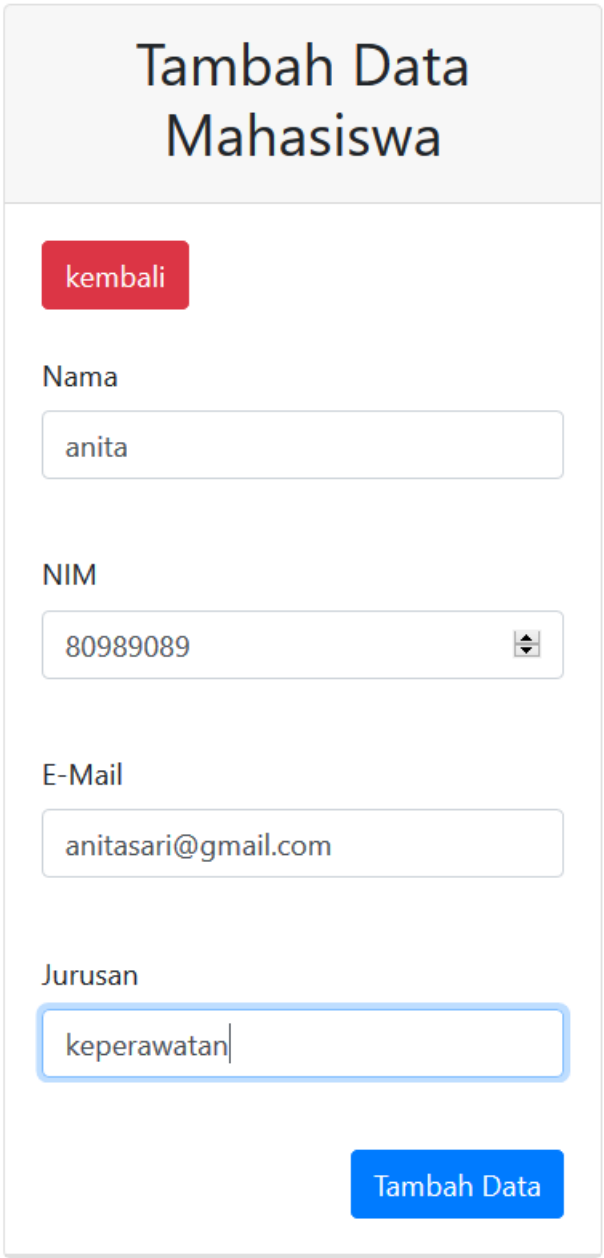
3 Membuat **tambah.blade.php**

	``blade
	@extends('master')
	@section('title', 'Tambah Data')
	@section('judul_halaman', 'Tambah Data Mahasiswa')
	@section('konten')
	  <a href="/mahasiswa" class="btn btn-danger">Kembali</a>
	
	  <form action="/laravel-crud/public/mahasiswa/simpan" method="post">
	  {{ csrf_field() }}
	  <div class="form-group">
	  <label for="namamhs">Nama</label>
	  <input type="text" name="namamhs" class="form-control" required>
	  </div>
	  <div class="form-group">
	  <label for="nimmhs">NIM</label>
	  <input type="number" name="nimmhs" class="form-control" required>
	  </div>
	  <div class="form-group">
	  <label for="emailmhs">E-mail</label>
	  <input type="text" name="emailmhs" class="form-control" required>
	  </div>
	  <div class="form-group">
	  <label for="jurusanmhs">Jurusan</label>
	  <input type="text" name="jurusanmhs" class="form-control" required>
	  </div>
	  <button type="submit" name="tambah" class="btn btn-primary float-right">Tambah Data</button>
	  </form>
	@endsection
	``

4	Membuat route simpan
	``php
	Route::post('/mahasiswa/simpan', 'MahasiswaController@simpan');
	``

5	Membuat method simpan
	``php
	public function simpan(Request $request){
	  DB::table('mahasiswa')->insert([
	  'nama' => $request->namamhs,
	  'nim' => $request->nimmhs,
	  'email' => $request->emailmhs,
	  'jurusan' => $request->jurusanmhs
	  ]);
	  return redirect('/');
	}
	``

6	Hasil Tampilan


Tambah Data Mahasiswa
kembali
Nama
anita
NIM
80989089
E-Mail
anitasari@gmail.com
Jurusan
keperawatan
Tambah Data

Nama	NIM
A.safa Dhiata	1941723012
ahlika ilman alhafidhu	51616484
dama pinter	658146
anita	80989089

d. <u>Melihat Detail Data dari Database</u>

1	Mengedit **index.blade.php**
	`<td>`
	`  <a href="/mahasiswa/detail/{{ $mhs->id }}" class="badge badge-info">Detail</a>`
	`</td>`

2	Membuat route detail `Route::get('/mahasiswa/detail/{id}', 'MahasiswaController@detail');`
3	Membuat fungsi detail

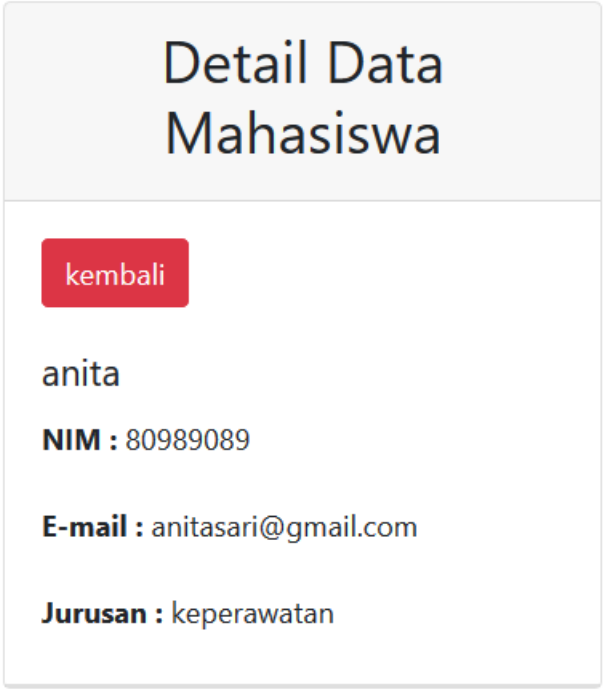
```php
public function detail($id){
    $mahasiswa = DB::table('mahasiswa')->where('id', $id)->get();
    return view('detail', ['maahasiswa' => $mahasiswa]);
}
```

4 Membuat **detail.blade.php**

```php
@extends('master')
@section('title', 'Detail Mahasiswa')
@section('judul_halaman', 'Detail Data Mahsiswa')

@section('konten')
    <a href="/mahasiswa" class="btn btn-danger">Kembali</a>
    <br><br>
    @foreach($mahasiswa as $mhs)
    <h5 class="card-title">{{ $mhs->nama }}</h5>
    <p class="card-text">
        <label for=""><b>NIM:</b></label>
        {{ $mhs->nim }}
    </p>
    <p class="card-text">
        <label for=""><b>EMAIL</b></label>
        {{ $mhs->email }}
    </p>
    <p class="card-text">
        <label for=""><b>JURUSAN</b></label>
        {{ $mhs->jurusan }}
    </p>
    @endforeach
@endsection
```

5 Hasil tampilan



e. Mengubah Data (Update) dari Database

1 Mengubah **index.blade.php**

```php
<a href="/mahasiswa/edit/{{ $mhs->id }}" class="badge badge-warning">Edit</a>
```

2 Membuat route edit

```php
Route::get('/mahasiswa/edit/{id}', 'MahasiswaController@edit');
```

3	Membuat method edit
	`public function edit($id){`
	`  $mahasiswa = DB::table('mahasiswa')->where('id', $id)->get();`
	`  return view('edit', ['mahasiswa' => $mahasiswa]);`
	`}`

4	Membuat **edit.blade.php**

```php
@extends('master')
@section('title', 'Edit Data')
@section('judul_halaman', 'Edit Data Mahasiswa')

@section('konten')
    <a href="/mahasiswa" class="btn btn-danger">Kembali</a>
    <br><br>
    @foreach($mahasiswa as $mhs)
    <form action="/mahasiswa/update" method="post">
        {{ csrf_field() }}
        <input type="hidden" name="id" value="{{ $mhs->id }}"><br>
        <div class="form-group">
          <label for="namamhs">Nama</label>
          <input type="text" name="namamhs" class="form-control" value="{{ $mhs->nama }}" required>
        </div>
        <div class="form-group">
          <label for="nimmhs">NIM</label>
          <input type="number" name="nimmhs" class="form-control" value="{{ $mhs->nim }}" required>
        </div>
        <div class="form-group">
          <label for="emailmhs">E-mail</label>
          <input type="text" name="emailmhs" class="form-control" value="{{ $mhs->email }}" required>
        </div>
        <div class="form-group">
          <label for="jurusanmhs">Jurusan</label>
          <input type="text" name="jurusanmhs" class="form-control" value="{{ $mhs->jurusan }}" required>
        </div>
        <button type="submit" name="tambah" class="btn btn-primary float-right">Simpan Data</button>
    </form>
    @endforeach
@endsection
```

5 Membuat route update

```php
Route::post('/mahasiswa/update', 'MahasiswaController@update');
```

6 Membuat method update

```php
public function update(Request $request){
    DB::table('mahasiswa')->where('id', $request->id)->update([
        'nama' => $request->namamhs,
        'nim' => $request->nimmhs,
        'email' => $request->emailmhs,
        'jurusan' => $request->jurusanmhs
    ]);
    return redirect('/');
}
```

7 Hasil Tampilan

Edit Data Mahasiswa
kembali
Nama
A.safa Dhiata
NIM
1941723012
E-mail
safadhi54@gmail.com
Jurusan
teknologi informasi
Simpan Data

f. **Menghapus Data (Delete) dari Database**

1	Membuat tombol delete `<a href="/mahasiswa/hapus/{{ $mhs→id }}" class="badge badge-danger">Hapus</a>`
2	Membuat route delete `Route::get('/mahasiswa/hapus/{id}', 'MahasiswaController@hapus');`

3	Membuat method delete
	`public function hapus($id){`
	`  DB::table('mahasiswa')→where('id', $id)→delete();`
	`  return redirect('/');`
	`}`

4	

Tambah Data Mahasiswa

Nama	NIM	
A.safa Dhiata	1941723012	Detail Edit HAPUS
ahlika ilman alhafidhu	51616484	Detail Edit HAPUS
dama pinter	658146	Detail Edit HAPUS
anita	80989089	Detail Edit HAPUS

MENGHAPUS dama pinter

Tambah Data Mahasiswa

Nama	NIM	
A.safa Dhiata	1941723012	Detail Edit HAPUS
ahlika ilman alhafidhu	51616484	Detail Edit HAPUS
anita	80989089	Detail Edit HAPUS

Praktikum – Bagian 2: Membuat CRUD di Laravel menggunakan Eloquent

a. **Konfigurasi Database**

1	Membuat project baru
	`D:\Ampps\www>laravel new laravel-crud-kedua`
	`Crafting application...`
	`Loading composer repositories with package information`
	`Installing dependencies (including require-dev) from lock`
	`Package operations: 92 installs, 0 updates, 0 removals`

2	Menkonfigurasi .env
	.env
	`APP_NAME=Laravel`
	`APP_ENV=local`
	`APP_KEY=base64:Cy89AeUiuySyq`
	`APP_DEBUG=true`
	`APP_URL=http://localhost`
	
	`LOG_CHANNEL=stack`
	
	`DB_CONNECTION=mysql`
	`DB_HOST=localhost`
	`DB_PORT=3306`
	`DB_DATABASE=latihan_laravel`
	`DB_USERNAME=root`
	`DB_PASSWORD=mysql`

3	Mengedit table Mahasiswa 6 **created_at** timestamp on update CURRENT_TIMESTAMP Yes *NULL* 7 **updated_at** timestamp on update CURRENT_TIMESTAMP Yes *NULL*

b. **Menampilkan Data dari Database**

1	Membuat route
	`Route::get('/', 'MahasiswaController@index');`
	
	`Route::get('/mahasiswa', 'MahasiswaController@index');`

2	Membuat Model mahasiswa
	`PS D:\Ampps\www\laravel-crud-kedua> php artisan make:model Mahasiswa`
	`Model created successfully.`

3	Mengedit model mahasiswa
	`<?php`
	
	`namespace App;`
	
	`use Illuminate\Database\Eloquent\Model;`
	
	`class Mahasiswa extends Model`
	`{`
	`  protected $table = "mahasiswa";`
	`}`

4	Membuat Controller Mahasiswa

```
PS D:\Ampps\www\laravel-crud-kedua> php artisan make:controller MahasiswaController
Controller created successfully.
```

5 Membuat index pada Controller Mahasiswa

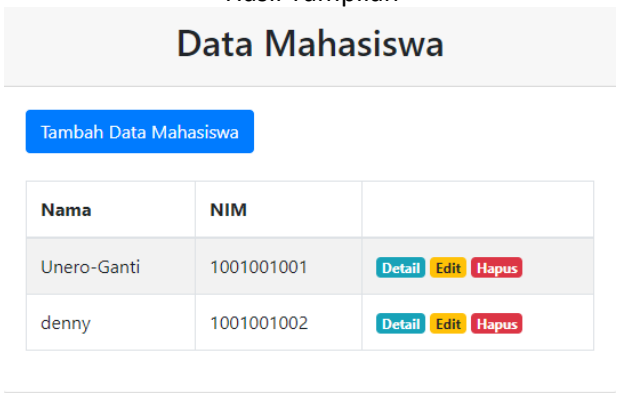
```php
<?php

namespace App\Http\Controllers;

use Illuminate\Http\Request;
use App\Mahasiswa;

class MahasiswaController extends Controller
{
    public function index(){
        $mahasiswa = Mahasiswa::all();
        return view('index', ['mahasiswa' => $mahasiswa]);
    }
}
```

6 Hasil Tampilan



c. Memasukkan Data (Create) ke Database

1 Membuat route tambah

```php
Route::get('/mahasiswa/tambah', 'MahasiswaController@tambah');
```

2 Membuat method tambah

```php
public function tambah(){
    return view('tambah');
}
```

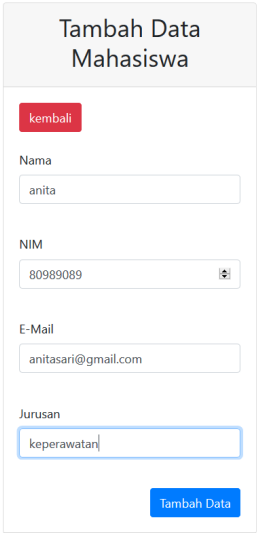
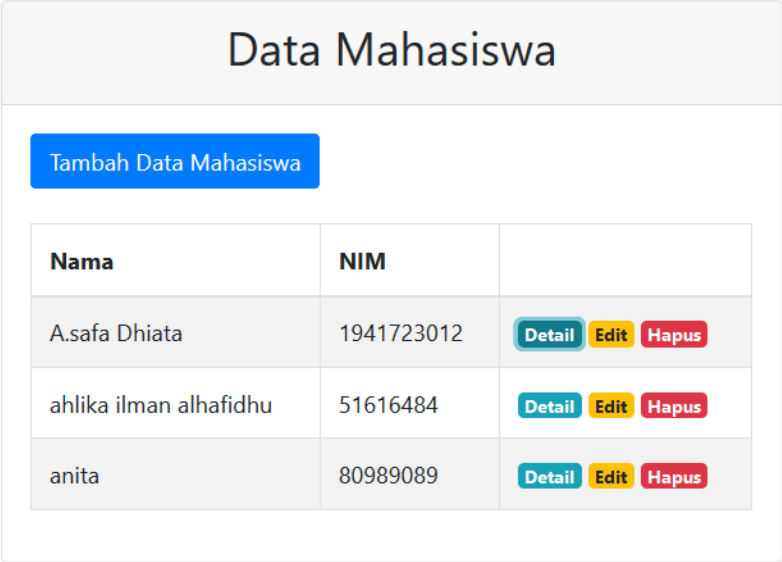
3 Membuat route simpan

```php
Route::post('/mahasiswa/simpan', 'MahasiswaController@simpan');
```

4 Membuat fungsi simpan

```php
public function simpan(Request $request){
    Mahasiswa::create([
        'nama' => $request->namamhs,
        'nim' => $request->nimmhs,
        'email' => $request->emailmhs,
        'jurusan' => $request->jurusanmhs
    ]);
    return redirect('/');
}
```

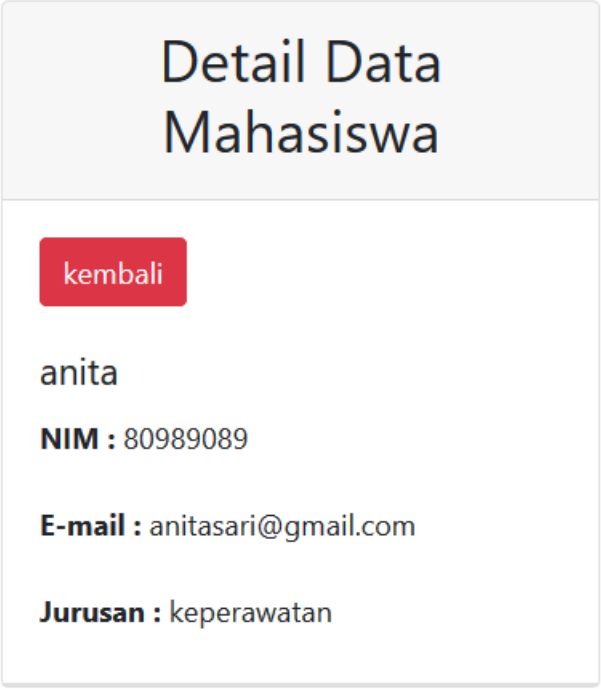
5	Mengatur model Mahasiswa
	`class Mahasiswa extends Model`
	`{`
	`protected $table = "mahasiswa";`
	`protected $fillable = ['nama', 'nim', 'email', 'jurusan'];`
	`}`

6	Hasil Tampilan  

d. Melihat Detail Data dari Database

1	Membuat route detail `Route::get('/mahasiswa/detail/{id}', 'MahasiswaController@detail');`

2	Membuat fungsi detail
	`public function detail($id){`
	`$mahasiswa = Mahasiswa::find($id);`
	`return view('detail', ['mahasiswa' => $mahasiswa]);`
	`}`

3	 Hasil Tampilan

e. Mengubah Data (Update) dari Database

1 Membuat Route edit

```
Route::get('/mahasiswa/edit/{id}', 'MahasiswaController@edit');
```

2 Membuat fungsi edit

```
public function edit($id){
    $mahasiswa = Mahasiswa::find($id);
    return view('edit', ['mahasiswa' => $mahasiswa]);
}
```

3 Membuat route update

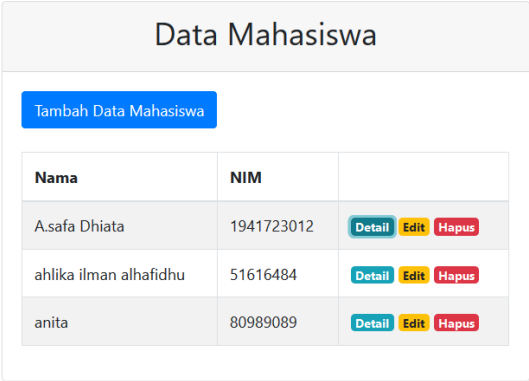
```
Route::get('/mahasiswa/update/{id}', 'MahasiswaController@update');
```

4 Membuat fungsi update

```
public function update($id, Request $request){
    $mahasiswa = Mahasiswa::find($id);
    $mahasiswa->nama = $request->namamhs;
    $mahasiswa->nim = $request->nimmhs;
    $mahasiswa->email = $request->emailmhs;
    $mahasiswa->jurusan = $request->jurusanmhs;
    $mahasiswa->save();
    return redirect('/mahasiswa');
}
```

5

Hasil Tampilan



f. Menghapus Data (Delete) dari Database

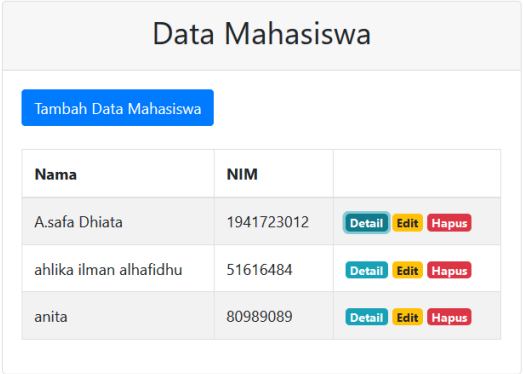
1 Membuat route hapus

```
Route::post('/mahasiswa/hapus/{id}', 'MahasiswaController@hapus');
```

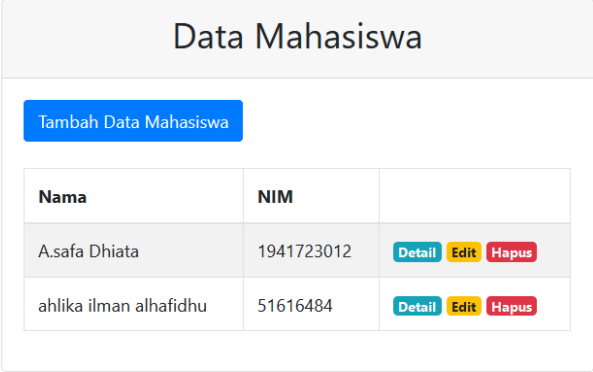
2 Membuat fungsi hapus

```
public function hapus($id){
    $mahasiswa = Mahasiswa::find($id);
    $mahasiswa->delete();
    return redirect('/');
}
```

3 Hasil



Menghapus anita



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