LAPORAN PRAKTIKUM

PEMROGRAMAN WEB LANJUT

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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

	id	nama	nim	email	jurusan
Copy Delete	1	Unero	1001001001	unero@gmail.com	teknik Informatika
Copy Delete	2	denny	1001001002	denny@gmail.com	teknik elektro

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>
```

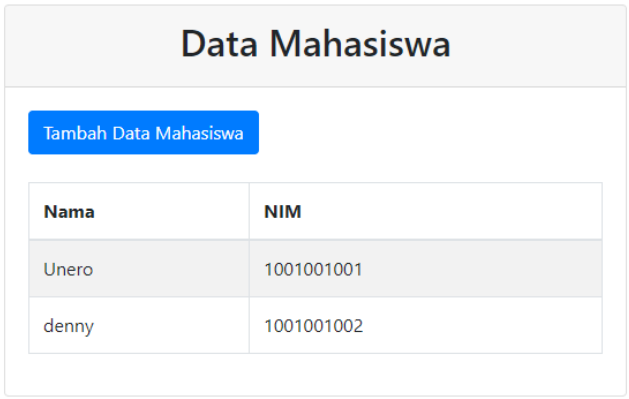
5

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



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**

```php
@extends('master')
@section('title', 'Tambah Data')
@section('judul_halaman', 'Tambah Data Mahasiswa')
@section('konten')
    <a href="/mahasiswa" class="btn btn-danger">Kembali</a>
    <br><br>
    <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
```

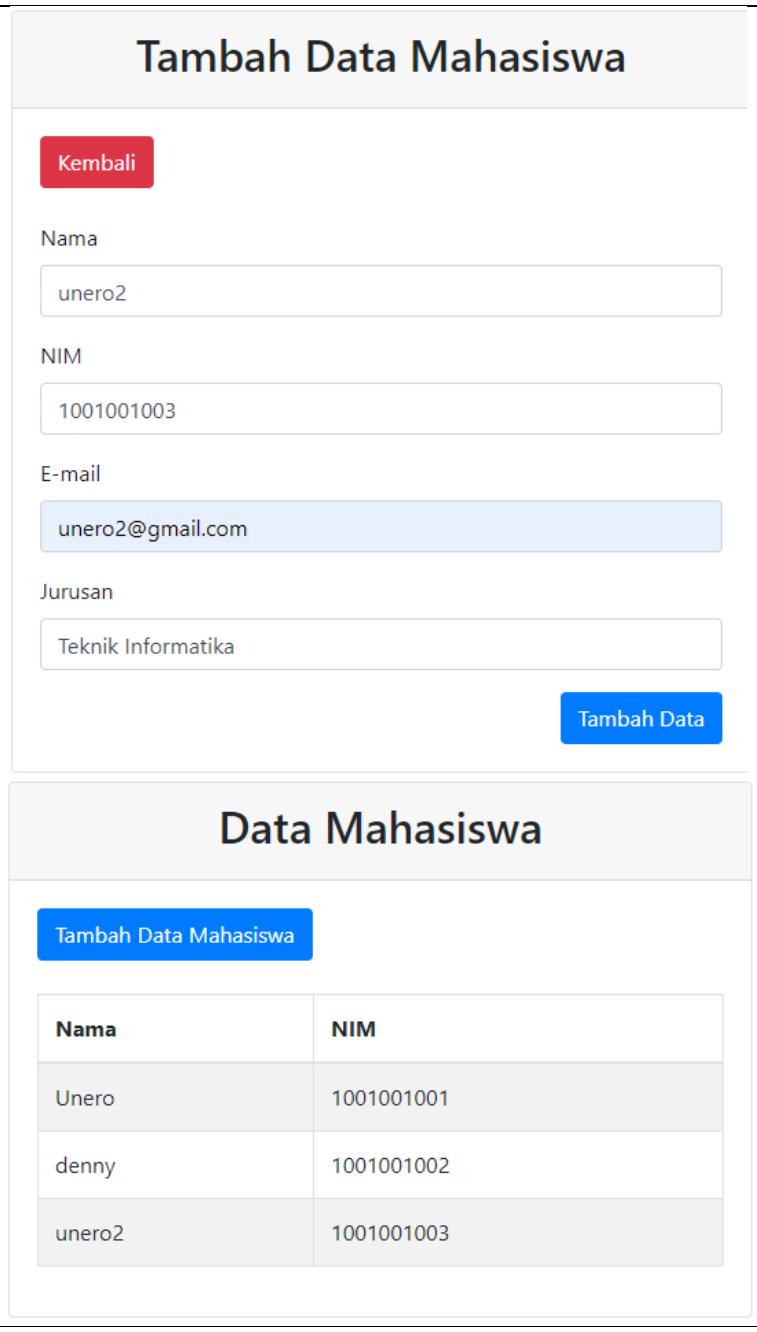
4 Membuat route simpan

```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



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

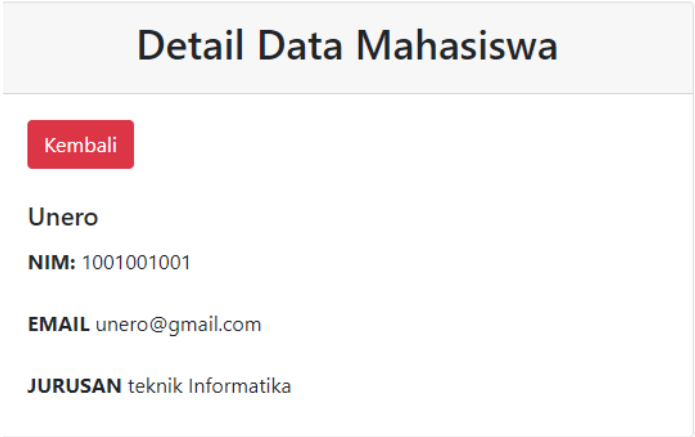
```php
public function detail($id){
    $mahasiswa = DB::table('mahasiswa')->where('id', $id)->get();
    return view('detail', ['maahasiswa' => $mahasiswa]);
}
```

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

```php
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
```

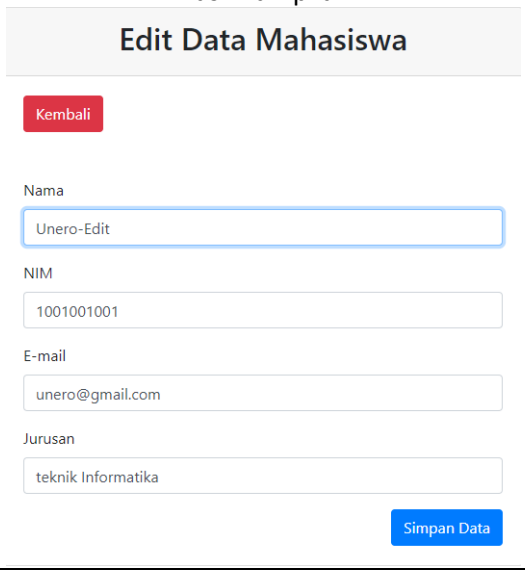
5 Membuat route update

```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



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

1 Membuat tombol delete

```
<a href="/mahasiswa/hapus/{{ $mhs→id }}" class="badge badge-danger">Hapus</a>
```

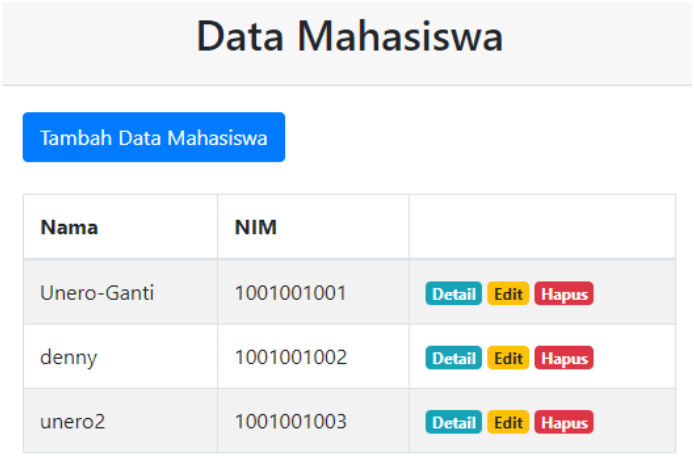
2 Membuat route delete

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

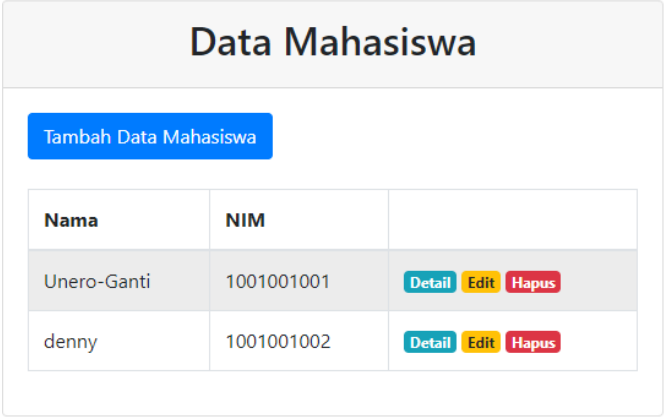
3 Membuat method delete

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

4 Hasil



Menghapus unero2



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

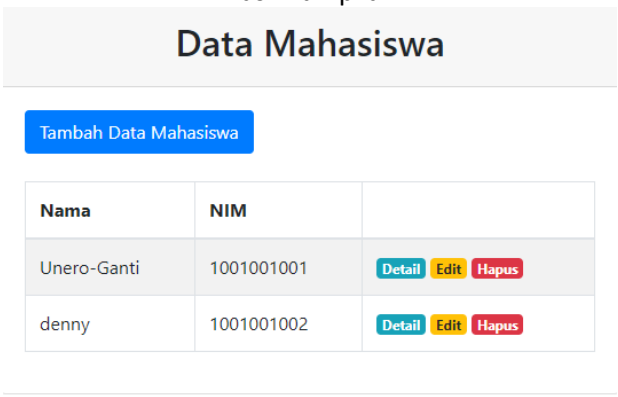
```php
<?php

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 **Tambah Data Mahasiswa** Kembali Nama Budi NIM 1001001005 E-mail budi@gmail.com Jurusan Teknik Mesin Tambah Data **Data Mahasiswa** Tambah Data Mahasiswa Nama | NIM Unero-Ganti | 1001001001 | Detail Edit Hapus denny | 1001001002 | Detail Edit Hapus budi | 1001001005 | Detail Edit Hapus

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 **Detail Data Mahasiswa** Kembali budi **NIM:** 1001001005 **EMAIL** budi@gmail.com **JURUSAN** Teknik Mesin

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]);
}
```

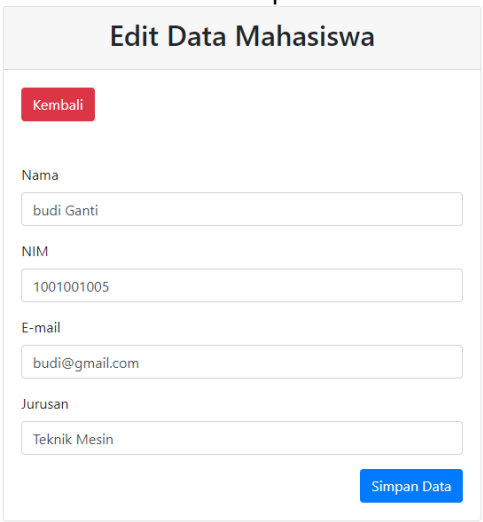
3 Membuat route update

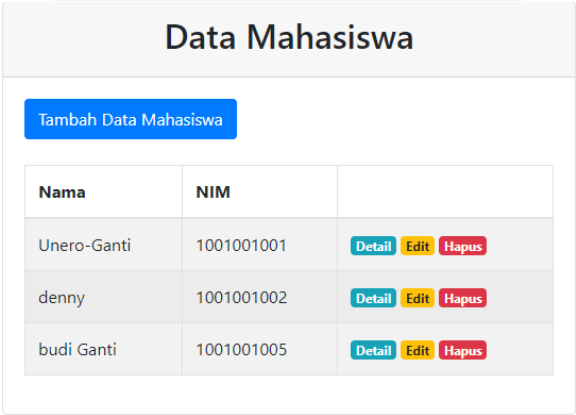
```
Route::get('/mahasiswa/update/{id}', 'MahasiswaController@update');
```

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

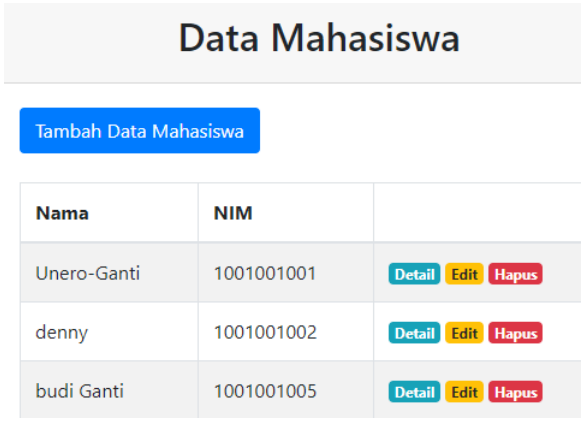
1 Membuat route hapus

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

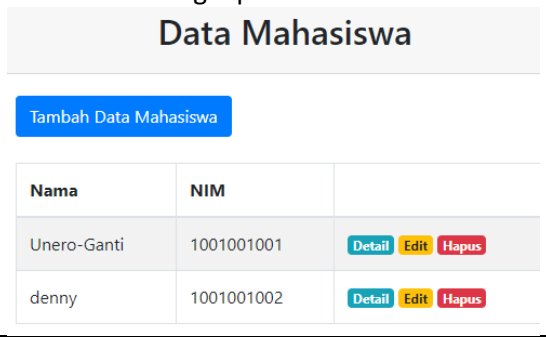
2 Membuat fungsi hapus

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

3 Hasil



Menghapus budi Ganti



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