

TUGAS PRAKTIKUM
PENGEMBANGAN APLIKASI WEB
MODUL 7
“Framework Laravel”



Disusun Oleh:

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PRODI TEKNIK INFORMATIKA
JURUSAN TEKNIK INFORMATIKA
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Tugas Praktikum :

1. Buatlah projek laravel dimana fungsi dari Web App tersebut antara lain :
 - a. Menambah Mahasiswa
 - b. Melihat semua Mahasiswa
 - c. Melihat mahasiswa berdasarkan NIM
 - d. Mengupdate data Mahasiswa
 - e. Menambah Nilai Mahasiswa (1 page berbeda dari update mahasiswa, karena khusus update untuk kolom nilai saja)
 - f. Menghapus Mahasiswa
 - g. Attribute :
 - nim, nama, umur, alamat, nilai
 - h. Gunakan Blade Templating Engine :
 - Framework CSS seperti Bootstrap/TailwindCSS/etc diperbolehkan

Jawab :

1. Membuat controller dan model
 - a. Controller

```
<?php

namespace App\Http\Controllers;
use App\Models\Mahasiswa;
use Illuminate\Http\Request;

class mahasiswaController extends Controller
{
    public function index(){
        $mahasiswa = Mahasiswa::all();
        return
view('mahasiswa.index',compact(['mahasiswa']));
    }
    public function create(){
        return view('mahasiswa.create');
    }

    public function search(Request $request){
        $mahasiswa=Mahasiswa::Where('nim',$request->search)->get();
        return
view('mahasiswa.index',compact(['mahasiswa']));
    }
    public function save(Request $request){
        Mahasiswa::create($request->except(['_token','submit']));
        return redirect('/mahasiswa');
```

```

    }
    public function edit($id){
        $mahasiswa= Mahasiswa::find($id);
        return
view('mahasiswa.edit',compact(['mahasiswa']));
        return redirect('/mahasiswa');
    }
    public function update($id,Request $request){
        $mahasiswa= Mahasiswa::find($id);
        $mahasiswa->update($request-
>except(['_token','submit']));
        return redirect('/mahasiswa');
    }
    public function editnilai($id){
        $mahasiswa= Mahasiswa::find($id);
        return
view('mahasiswa.editnilai',compact(['mahasiswa']));
        return redirect('/mahasiswa');
    }
    public function hapus($id){
        $mahasiswa=Mahasiswa::find($id);
        $mahasiswa->delete();
        return redirect('/mahasiswa');
    }
}

```

b. Model

```

<?php

namespace App\Models;

use Illuminate\Database\Eloquent\Factories\HasFactory;
use Illuminate\Database\Eloquent\Model;

class Mahasiswa extends Model
{
    use HasFactory;
    protected $table = 'mahasiswa';
    protected $guarded=[];
}

```

c. Migration

```
<?php

use Illuminate\Database\Migrations\Migration;
use Illuminate\Database\Schema\Blueprint;
use Illuminate\Support\Facades\Schema;

class CreateMahasiswa extends Migration
{
    /**
     * Run the migrations.
     *
     * @return void
     */
    public function up()
    {
        Schema::create('mahasiswa', function (Blueprint
$table) {
            $table->id();
            $table->string('nim');
            $table->string('nama');
            $table->string('umur');
            $table->string('alamat');
            $table->string('nilai');
            $table->timestamps();
        });
    }

    /**
     * Reverse the migrations.
     *
     * @return void
     */
    public function down()
    {
        Schema::dropIfExists('mahasiswa');
    }
}
```

2. Menambah mahasiswa

a. Code *resources/view/layout/master.blade.php*

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width,
initial-scale=1.0">
    <meta http-equiv="X-UA-Compatible" content="ie=edge">
    <link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.0-
beta1/dist/css/bootstrap.min.css" rel="stylesheet"
integrity="sha384-
0evHe/X+R7YkIZDRvuzKMRqM+OrBnVFBL6DOitfPri4tjFHxaWutUpFmBp4
vmVor" crossorigin="anonymous">
    <title>@yield('title')</title>
</head>
<body style="background-color: #FFEE63;">
    @yield('content')
</body>
</html>
```

b. Code Form menambah mahasiswa

```
@extends('layout.master')

@section('title', "Tambah Mahasiswa")
@section('content')
<div class="container" style="width: 30%;background-color:
aquamarine;border-radius:5%;margin-top:50px;">
    <center><h1 style="margin-top:30px;">Tambah
Mahasiswa</h1></center>
    <form action="/mahasiswa/save" method="POST" >
        @csrf
        <div class="input-group mb-3">
            NIM<input type="text" name="nim" class="input-
group mb-3" placeholder="NIM">
        </div>
        <div class="input-group mb-3">
            Nama<input type="text" name="nama"
class="input-group mb-3" placeholder="Nama">
        </div>
        <div class="input-group mb-3" >
            Umur<input type="text" name="umur"
class="input-group mb-3" placeholder="Umur">
        </div>
```

```

<div class="input-group mb-3">
  Alamat<input type="text" name="alamat"
class="input-group mb-3" placeholder="Alamat">
</div>
<div class="input-group mb-3">
  Nilai<input type="text" name="nilai"
class="input-group mb-3" placeholder="Nilai">
</div>
<center><input class="btn btn-primary"
style="margin-bottom: 20px;" type="submit" name="submit"
value="Tambah"></center>
</form>
</div>
@endsection

```

c. Hasil

3. Melihat semua mahasiswa dan Melihat mahasiswa berdasarkan NIM

a. Code

```

@extends('layout.master')

@section('title',"Data Mahasiswa")
@section('content')
<div class="container">
  <center><h1>Daftar Mahasiswa</h1></center>
  <center><h1>"Pengembangan Aplikasi Web-
4B"</h1></center>
  <form action="/mahasiswa/search" method="post"
style="margin-top: 30px;">
    @csrf
    <div class="container mt-3" >
      <div class="row">

```

```

        <div class="col col-11">
            <input type="search" name="search"
style="width:1275px;height:40px;border-
radius:10px;background-color:aqua">
            <div class="col col-1">
                <button class="btn btn-info"
type="submit" style="margin-top: 10px;">Cari</button>
            </div>
        </div>
    </div>
</div>
<center><a class="btn btn-primary"
href="/mahasiswa/create">Tambah Mahasiswa</a></center>
</form>
<table class="table table-success table-striped"
style="margin-top: 30px;">
    <tr>
        <th>No.</th>
        <th>NIM</th>
        <th>Nama</th>
        <th>Umur</th>
        <th>Alamat</th>
        <th style="text-align: center">Nilai</th>
        <th>Action</th>
    </tr>
    @foreach ($mahasiswa as $m)
    <tr>
        <td>{{ $m->id }}</td>
        <td>{{ $m->nim }}</td>
        <td>{{ $m->nama }}</td>
        <td>{{ $m->umur }}</td>
        <td>{{ $m->alamat }}</td>
        <td style="text-align: center">{{ $m->nilai }}
<br><a class="btn btn-warning" style="width: 70px;margin-
bottom:10px;" href="/mahasiswa/{{ $m['id']
}}/editnilai">Edit</a></td>
        <td><a class="btn btn-warning" style="width:
70px;margin-bottom:10px;" href="/mahasiswa/{{ $m['id']
}}/edit">Edit</a>
        <form action="/mahasiswa/{{ $m['id'] }}"
method="POST">
            @csrf
            @method('delete')
            <input class="btn btn-danger" type="submit"
value="Delete">
        </form>
    </td>
    </tr>
    @endforeach
</table>

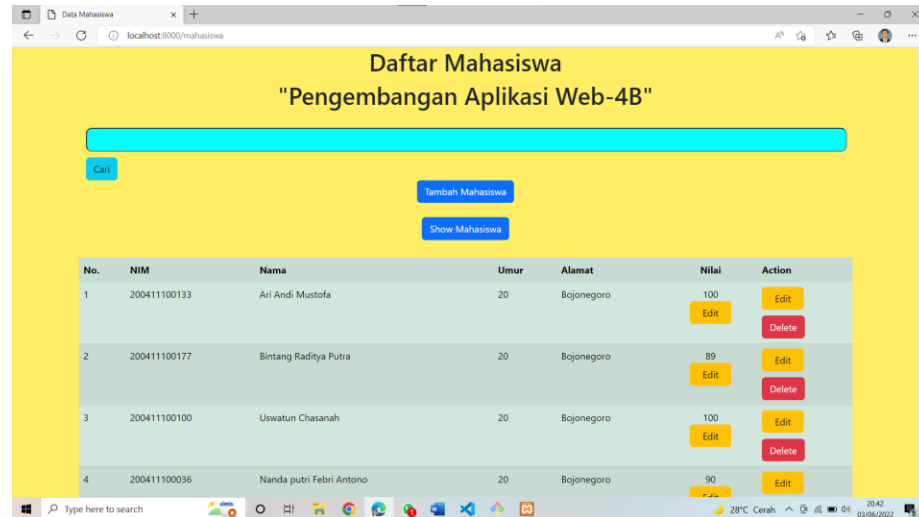
```

```

</tr>
    @endforeach
</table>
</div>
@endsection

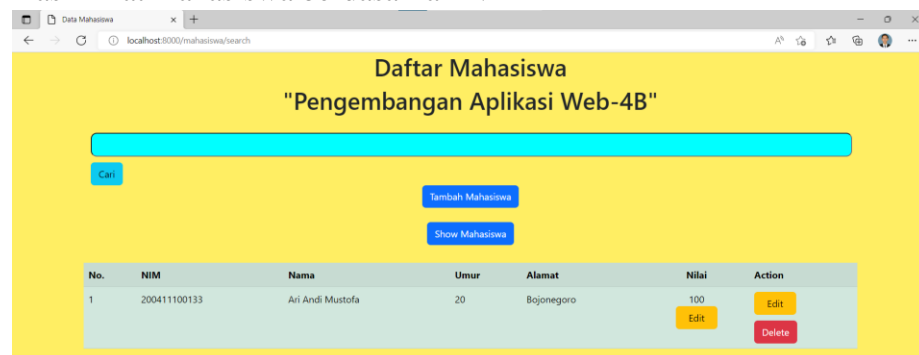
```

b. Hasil lihat semua mahasiswa



No.	NIM	Nama	Umur	Alamat	Nilai	Action
1	200411100133	Ari Andi Mustofa	20	Bojonegoro	100	<button>Edit</button> <button>Delete</button>
2	200411100177	Bintang Raditya Putra	20	Bojonegoro	89	<button>Edit</button> <button>Delete</button>
3	200411100100	Uswatun Chasanah	20	Bojonegoro	100	<button>Edit</button> <button>Delete</button>
4	200411100036	Nanda putri Febri Antono	20	Bojonegoro	90	<button>Edit</button> <button>Delete</button>

c. Hasil lihat mahasiswa berdasarkan NIM



No.	NIM	Nama	Umur	Alamat	Nilai	Action
1	200411100133	Ari Andi Mustofa	20	Bojonegoro	100	<button>Edit</button> <button>Delete</button>

4. Mengupdate data Mahasiswa

a. Code

```

@extends('layout.master')

@section('title',"Edit Mahasiswa")
@section('content')
    <div class="container" style="width: 30%;background-color: aquamarine;border-radius:5%;margin-top:50px;">
        <center><h1 style="margin-top:30px;">Edit
Mahasiswa</h1></center>
        <form action="/mahasiswa/{{ $mahasiswa->id }}"
method="POST" >
            @method('put')
            @csrf
            <div class="input-group mb-3">

```



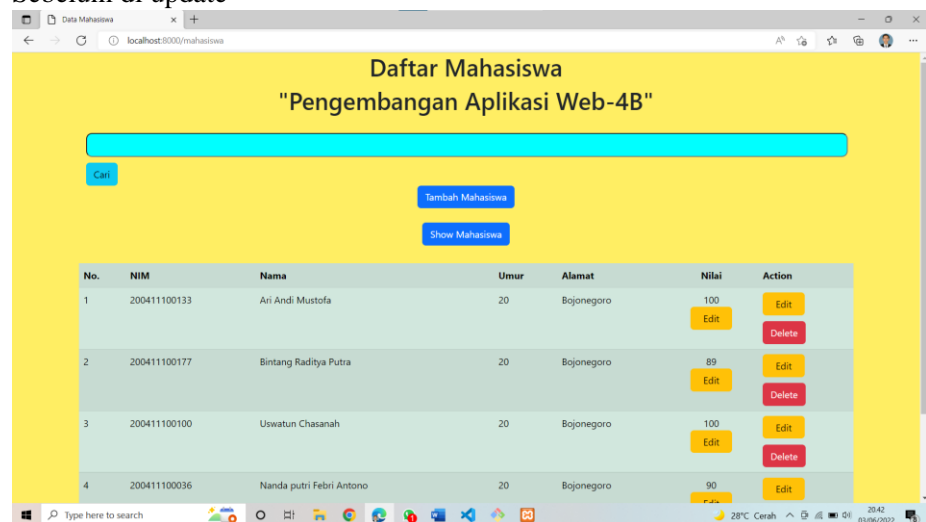
```

        NIM<input type="text" name="nim"
class="input-group mb-3" placeholder="NIM" value="{{
$mahasiswa->nim }}">
    </div>
    <div class="input-group mb-3">
        Nama<input type="text" name="nama"
class="input-group mb-3" placeholder="Nama" value="{{
$mahasiswa->nama }}">
    </div>
    <div class="input-group mb-3">
        Umur<input type="text" name="umur"
class="input-group mb-3" placeholder="Umur" value="{{
$mahasiswa->umur }}">
    </div>
    <div class="input-group mb-3">
        Alamat<input type="text" name="alamat"
class="input-group mb-3" placeholder="Alamat" value="{{
$mahasiswa->alamat }}">
    </div>

    <center><input class="btn btn-primary"
style="margin-bottom: 20px;" type="submit" name="submit"
value="save"></center>
</form>
</div>
@endsection

```

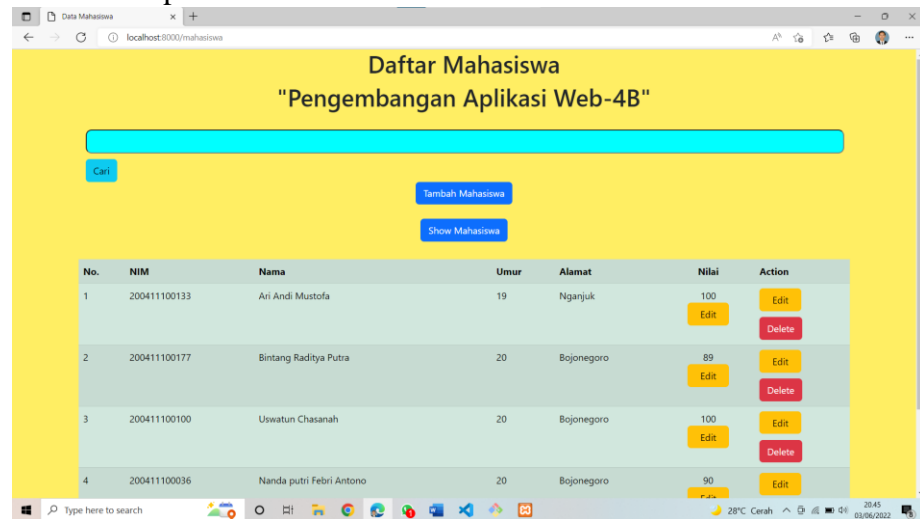
b. Sebelum di update



The screenshot shows a web application interface for managing students. At the top, there's a search bar with a 'Cari' button. Below it are buttons for 'Tambah Mahasiswa' and 'Show Mahasiswa'. The main part of the interface is a table listing students with columns for No., NIM, Nama, Umur, Alamat, Nilai, and Action. Each row has 'Edit' and 'Delete' buttons in the Action column.

No.	NIM	Nama	Umur	Alamat	Nilai	Action
1	200411100133	Ari Andi Mustofa	20	Bojonegoro	100	<button>Edit</button> <button>Delete</button>
2	200411100177	Bintang Raditya Putra	20	Bojonegoro	89	<button>Edit</button> <button>Delete</button>
3	200411100100	Uswatun Chasanah	20	Bojonegoro	100	<button>Edit</button> <button>Delete</button>
4	200411100036	Nanda putri Febri Antono	20	Bojonegoro	90	<button>Edit</button> <button>Delete</button>

c. Setelah di update



5. Menambah Nilai Mahasiswa

a. Code

```
@extends('layout.master')

@section('title',"Edit Nilai Mahasiswa")
@section('content')
    <div class="container" style="width: 30%;background-color: aquamarine;border-radius:5%;margin-top:50px;">
        <center><h1 style="margin-top:30px;">Edit Nilai Mahasiswa</h1></center>
        <form action="/mahasiswa/{{ $mahasiswa->id }}" method="POST" >
            @method('put')
            @csrf
            <div class="input-group mb-3">
                Nilai<input type="text" name="nilai" class="input-group mb-3" placeholder="Nilai" value="{{ $mahasiswa->nilai }}">
            </div>
            <center><input class="btn btn-primary" style="margin-bottom: 20px;" type="submit" name="submit" value="save"></center>
        </form>
    </div>

@endsection
```

b. Sebelum diupdate nilai

Daftar Mahasiswa
"Pengembangan Aplikasi Web-4B"

Cari

Tambah Mahasiswa

Show Mahasiswa

No.	NIM	Nama	Umur	Alamat	Nilai	Action
1	200411100133	Ari Andi Mustofa	20	Bojonegoro	100	<button>Edit</button> <button>Delete</button>
2	200411100177	Bintang Raditya Putra	20	Bojonegoro	89	<button>Edit</button> <button>Delete</button>
3	200411100100	Uswatun Chasanah	20	Bojonegoro	100	<button>Edit</button> <button>Delete</button>
4	200411100036	Nanda putri Febri Antono	20	Bojonegoro	90	<button>Edit</button> <button>Delete</button>

c. Setelah diupdate nilai

Daftar Mahasiswa
"Pengembangan Aplikasi Web-4B"

Cari

Tambah Mahasiswa

Show Mahasiswa

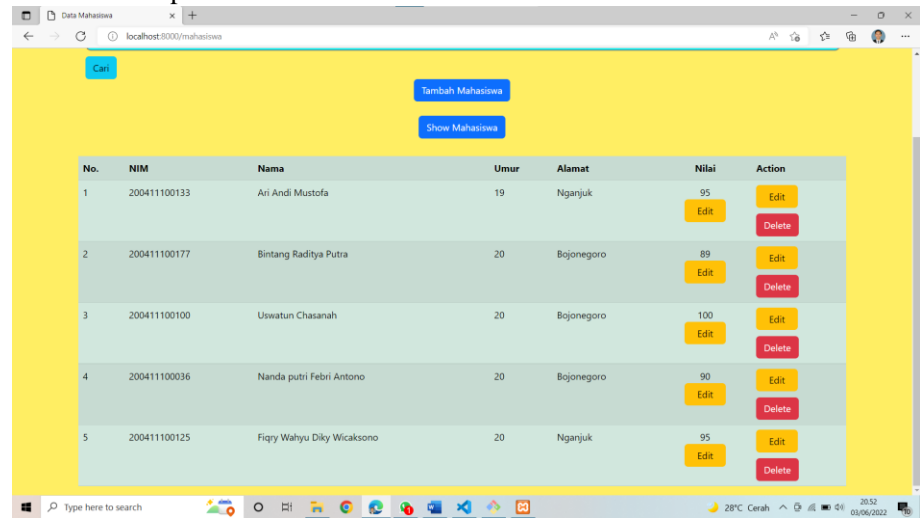
No.	NIM	Nama	Umur	Alamat	Nilai	Action
1	200411100133	Ari Andi Mustofa	19	Nganjuk	95	<button>Edit</button> <button>Delete</button>
2	200411100177	Bintang Raditya Putra	20	Bojonegoro	89	<button>Edit</button> <button>Delete</button>
3	200411100100	Uswatun Chasanah	20	Bojonegoro	100	<button>Edit</button> <button>Delete</button>
4	200411100036	Nanda putri Febri Antono	20	Bojonegoro	90	<button>Edit</button> <button>Delete</button>

6. Menghapus mahasiswa

a. Code

```
<form action="/mahasiswa/{{ $m['id'] }}" method="POST">
    @csrf
    @method('delete')
    <input class="btn btn-danger"
type="submit" value="Delete">
</form>
```

b. Sebelum dihapus



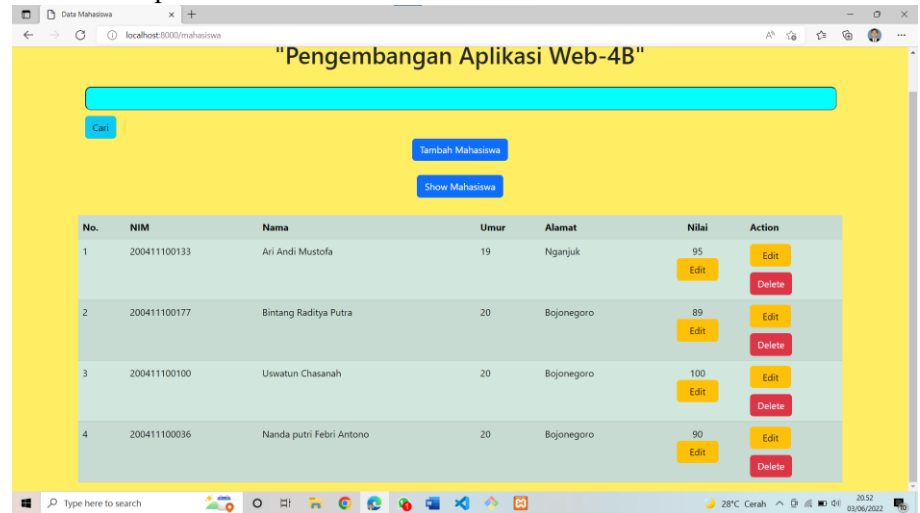
Car

Tambah Mahasiswa

Show Mahasiswa

No.	NIM	Nama	Umur	Alamat	Nilai	Action
1	200411100133	Ari Andi Mustofa	19	Nganjuk	95 Edit	Edit Delete
2	200411100177	Bintang Raditya Putra	20	Bojonegoro	89 Edit	Edit Delete
3	200411100100	Uswatun Chasanah	20	Bojonegoro	100 Edit	Edit Delete
4	200411100036	Nanda putri Febri Antono	20	Bojonegoro	90 Edit	Edit Delete
5	200411100125	Fitry Wahyu Diky Wicaksono	20	Nganjuk	95 Edit	Edit Delete

c. Setelah dihapus



"Pengembangan Aplikasi Web-4B"

Car

Tambah Mahasiswa

Show Mahasiswa

No.	NIM	Nama	Umur	Alamat	Nilai	Action
1	200411100133	Ari Andi Mustofa	19	Nganjuk	95 Edit	Edit Delete
2	200411100177	Bintang Raditya Putra	20	Bojonegoro	89 Edit	Edit Delete
3	200411100100	Uswatun Chasanah	20	Bojonegoro	100 Edit	Edit Delete
4	200411100036	Nanda putri Febri Antono	20	Bojonegoro	90 Edit	Edit Delete