

**TUGAS PRAKTIKUM
PRAKTIKUM PAW
MODUL 7 “CRUD - Laravel”**



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**PRODI TEKNIK INFORMATIKA
JURUSAN TEKNIK INFORMATIKA
FAKULTAS TEKNIK
UNIVERSITAS TRUNOJOYO MADURA
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Soal !

Buatlah projek laravel dimana fungsi dari Web App tersebut antara lain

1. Menambah Mahasiswa
 2. Melihat semua Mahasiswa
 3. Melihat mahasiswa berdasarkan NIM
 4. Mengupdate data Mahasiswa
 5. Menambah Nilai Mahasiswa (1 page berbeda dari update mahasiswa, karena khusus update untuk kolom nilai saja)
 6. Menghapus Mahasiswa
7. Note :
- Attribute : nim, nama, umur, alamat, nilai
 - Gunakan Blade Templating Engine
 - Framework CSS seperti Bootstrap/TailwindCSS/etc diperbolehkan

Jawab :

1. .env = Membuat Koneksi Database

Code :

```
APP_NAME=Laravel
APP_ENV=local
APP_KEY=base64:Xqm1j45gkQOqgZ2T8387RMK4XoTUy6jqcNvLR5dMMzk=
APP_DEBUG=true
APP_URL=http://localhost

LOG_CHANNEL=stack
LOG_DEPRECATIONS_CHANNEL=null
LOG_LEVEL=debug

DB_CONNECTION=mysql
DB_HOST=127.0.0.1
DB_PORT=3306
DB_DATABASE=prak7paw
DB_USERNAME=root
DB_PASSWORD=

BROADCAST_DRIVER=log
CACHE_DRIVER=file
FILESYSTEM_DISK=local
QUEUE_CONNECTION=sync
SESSION_DRIVER=file
SESSION_LIFETIME=120

MEMCACHED_HOST=127.0.0.1

REDIS_HOST=127.0.0.1
REDIS_PASSWORD=null
REDIS_PORT=6379

MAIL_MAILER=smtp
```

```
MAIL_HOST=mailhog
MAIL_PORT=1025
MAIL_USERNAME=null
MAIL_PASSWORD=null
MAIL_ENCRYPTION=null
MAIL_FROM_ADDRESS="hello@example.com"
MAIL_FROM_NAME="${APP_NAME}"

AWS_ACCESS_KEY_ID=
AWS_SECRET_ACCESS_KEY=
AWS_DEFAULT_REGION=us-east-1
AWS_BUCKET=
AWS_USE_PATH_STYLE_ENDPOINT=false

PUSHER_APP_ID=
PUSHER_APP_KEY=
PUSHER_APP_SECRET=
PUSHER_APP_CLUSTER=mt1

MIX_PUSHER_APP_KEY="${PUSHER_APP_KEY}"
MIX_PUSHER_APP_CLUSTER="${PUSHER_APP_CLUSTER}"
```

2. Membuat Tabel pada Database : databases/migration/2022...

```
<?php

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

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

```

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

```

Screenshot :

The screenshot shows the phpMyAdmin interface for a database named 'prak7paw'. The left sidebar displays a tree view of databases and tables. The main panel shows the 'Structure' tab for the 'mahasiswas' table. Below the table list, there is a 'Create new table' dialog box with the table name 'mahasiswas' and 4 columns.

Table	Action	Rows	Type	Collation	Size	Overhead
<input type="checkbox"/> failed_jobs	Star, Browse, Structure, Search, Insert, Empty, Drop	0	InnoDB	utf8mb4_unicode_ci	32.0 K	18
<input type="checkbox"/> mahasiswas	Star, Browse, Structure, Search, Insert, Empty, Drop	6	InnoDB	utf8mb4_unicode_ci	16.0 K	18
<input type="checkbox"/> migrations	Star, Browse, Structure, Search, Insert, Empty, Drop	5	InnoDB	utf8mb4_unicode_ci	16.0 K	18
<input type="checkbox"/> password_resets	Star, Browse, Structure, Search, Insert, Empty, Drop	0	InnoDB	utf8mb4_unicode_ci	32.0 K	18
<input type="checkbox"/> personal_access_tokens	Star, Browse, Structure, Search, Insert, Empty, Drop	0	InnoDB	utf8mb4_unicode_ci	48.0 K	18
<input type="checkbox"/> users	Star, Browse, Structure, Search, Insert, Empty, Drop	0	InnoDB	utf8mb4_unicode_ci	32.0 K	18
6 tables	Sum	11	InnoDB	utf8mb4_general_ci	176.0 K	8

3. App/Http/Controllers/MahasiswaControllers : Sebuah control untuk mengatur arah jalannya dari route ke view maupun ke database.

```

<?php

namespace App\Http\Controllers;

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

class MahasiswaController extends Controller
{
    protected $guarded = ['id'];
    protected $fillable = ['nim', 'nama', 'umur', 'alamat', 'nilai'];
    /**
     * Display a listing of the resource.
     *

```

```

        * @return \Illuminate\Http\Response
        */
        public function index(Request $request)
        {
            if ($request->has('search')){
                $datas = Mahasiswa::where('nim','LIKE','%'.$request->search.'%')->paginate(5);
            }
            else{
                $datas = Mahasiswa::all();
            }

            return view('mahasiswa/mhs', ["judul" => "Data mahasiswa"], compact('datas'));
        }

        /**
         * Show the form for creating a new resource.
         *
         * @return \Illuminate\Http\Response
         */
        public function create()
        {
            $model = new Mahasiswa;
            return view('mahasiswa/create',compact('model'));
        }

        /**
         * Store a newly created resource in storage.
         *
         * @param \Illuminate\Http\Request $request
         * @return \Illuminate\Http\Response
         */
        public function store(Request $request)
        {
            $model = new Mahasiswa;
            $model->nim = $request->nim;
            $model->nama = $request->nama;
            $model->umur = $request->umur;
            $model->alamat = $request->alamat;
            // $model->nilai = $request->nilai;
            $model->save();
            return redirect('/mahasiswa');
        }

        /**
         * Display the specified resource.

```

```

*
* @param int $id
* @return \Illuminate\Http\Response
*/
public function show($id)
{
    //
}

/**
 * Show the form for editing the specified resource.
 *
 * @param int $id
 * @return \Illuminate\Http\Response
 */
public function edit($id)
{
    $model = Mahasiswa::find($id);
    return view('mahasiswa/edit',compact('model'));
}

/**
 * Update the specified resource in storage.
 *
 * @param \Illuminate\Http\Request $request
 * @param int $id
 * @return \Illuminate\Http\Response
 */
public function update(Request $request, $id)
{
    $model = Mahasiswa::find($id);
    $model->nim = $request->nim;
    $model->nama = $request->nama;
    $model->umur = $request->umur;
    $model->alamat = $request->alamat;
    // $model->nilai = $request->nilai;
    $model->save();
    return redirect('/mahasiswa');
}

/**
 * Remove the specified resource from storage.
 *
 * @param int $id
 * @return \Illuminate\Http\Response
 */
public function destroy($id)
{

```

```

        $model = Mahasiswa::find($id);
        $model->delete();
        return redirect('mahasiswa');
    }
}

```

4. App/Http/Controllers/Mahasiswa2Controllers : Sebuah control untuk mengatur arah jalannya dari route dan view lalu edit nilai.

```

<?php

namespace App\Http\Controllers;

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

class Mahasiswa2Controller extends Controller
{
    protected $guarded = ['id'];
    protected $fillable = ['nim', 'nama', 'umur', 'alamat', 'nilai'];
    public function edit($id)
    {
        $model = Mahasiswa::find($id);
        return view('mahasiswa/editnilai', compact('model'));
    }

    /**
     * Update the specified resource in storage.
     *
     * @param  \Illuminate\Http\Request  $request
     * @param  int  $id
     * @return \Illuminate\Http\Response
     */
    public function update(Request $request, $id)
    {
        $model = Mahasiswa::find($id);
        // $model->nim = $request->nim;
        // $model->nama = $request->nama;
        // $model->umur = $request->umur;
        // $model->alamat = $request->alamat;
        $model->nilai = $request->nilai;
        $model->save();
        return redirect('/mahasiswa');
    }
}

```

5. App/models/Mahasiswa.php : Untuk buat database.

```
<?php

namespace App\Models;

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

class Mahasiswa extends Model
{
    use HasFactory;
}
```

6. `Resource/views/mahasiswa/create.blade.php` : Digunakan untuk menambahkan data mahasiswa.

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <link rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.0/css/bootstrap.min.css
">
  <link rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.4.1/css/bootstrap.min.css
" integrity="sha384-
Vkoo8x4CGsO3+Hh xv8T/Q5PaXtkKtu6ug5TOeNV6gBiFeWPGFN9MuhOf23Q9Ifjh"
crossorigin="anonymous">
  <title>Prak 7 | Create</title>
</head>
<body>
  <a href="\mahasiswa">
    <svg xmlns="http://www.w3.org/2000/svg" width="40" height="40"
fill="currentColor" class="bi bi-arrow-left-circle" viewBox="0 0 16 16">
      <path fill-rule="evenodd" d="M1 8a7 7 0 1 0 14 0A7 7 0 0 0 1 8zm15
0A8 8 0 1 1 0 8a8 8 0 0 1 16 0zm-4.5-.5a.5.5 0 0 1 0 1H5.707l2.147 2.146a.5.5
0 0 1-.708.708l-3-3a.5.5 0 0 1 0-.708l3-3a.5.5 0 1 1 .708.708L5.707
7.5H11.5z"/>
    </svg>
  </a>
  <div class="container">
    <div class="card-body">
      <form action="{url('mahasiswa')}" method="POST" class="text-center">
        @csrf
        <table>
          <tr class="form-group">
            <td>
              <label>NIM</label>
            </td>
          </tr>
        </table>
      </form>
    </div>
  </div>
</body>
</html>
```



```

        </td>
        <td>
            <input type="text" name="nim" class="form-control"
placeholder="Input NIM disini !" ruqueired>
        </td>
    </tr>
    <tr class="form-group">
        <td>
            <label>NAMA</label>
        </td>
        <td>
            <input type="text" name="nama" class="form-control"
placeholder="Input nama disini !" ruqueired>
        </td>
    </tr>
    <tr class="form-group">
        <td>
            <label>UMUR</label>
        </td>
        <td>
            <input type="text" name="umur" class="form-control"
placeholder="Input umur disini !" ruqueired>
        </td>
    </tr>
    <tr class="form-group">
        <td>
            <label>ALAMAT</label>
        </td>
        <td>
            <input type="text" name="alamat" class="form-control"
placeholder="Input alamat disini !" ruqueired>
        </td>
    </tr>
    <tr>
        <td>
            <button type="submit" class="btn btn-success"
name="simpan">Save</button>
        </td>
    </tr>
    {{ method_field('POST') }}
</table>
</form>
</div>
</div>
</body>
</html>

```

NIM

NAMA

UMUR

ALAMAT

7. Resource/views/mahasiswa/edit.blade.php : Digunakan untuk edit data mahasiswa.

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <link rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.0/css/bootstrap.min.css
">
  <link rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.4.1/css/bootstrap.min.css
" integrity="sha384-
Vkoo8x4CGsO3+HhXv8T/Q5PaXtkKtu6ug5TOeNV6gBiFeWPGFN9MuhOf23Q9Ifjh"
crossorigin="anonymous">
  <title>Prak 7 | Create</title>
</head>
<body>
  <a href="\mahasiswa">
    <svg xmlns="http://www.w3.org/2000/svg" width="40" height="40"
fill="currentColor" class="bi bi-arrow-left-circle" viewBox="0 0 16 16">
      <path fill-rule="evenodd" d="M1 8a7 7 0 1 0 14 0A7 7 0 0 0 1 8zm15
0A8 8 0 1 1 0 8a8 8 0 0 1 16 0zm-4.5-.5a.5.5 0 0 1 0 1H5.707l2.146a.5.5
0 0 1-.708.708l-3-3a.5.5 0 0 1 0-.708l3-3a.5.5 0 1 1 .708.708L5.707
7.5H11.5z"/>
    </svg>
  </a>
  <div class="container">
    <div class="card-body">
      <form method="POST" action="{{url('mahasiswa/'.$model->id)}}">
```

```

@csrf
<input type="hidden" name="_method" value="PATCH">
<table>
  <tr class="form-group">
    <td>
      <label>NIM</label>
    </td>
    <td>
      <input type="text" name="nim" class="form-control"
value="{{ $model->nim }}" placeholder="Input NIM disini !" required>
    </td>
  </tr>
  <tr class="form-group">
    <td>
      <label>NAMA</label>
    </td>
    <td>
      <input type="text" name="nama" class="form-control"
value="{{ $model->nama }}" placeholder="Input nama disini !" required>
    </td>
  </tr>
  <tr class="form-group">
    <td>
      <label>UMUR</label>
    </td>
    <td>
      <input type="text" name="umur" class="form-control"
value="{{ $model->umur }}" placeholder="Input umur disini !" required>
    </td>
  </tr>
  <tr class="form-group">
    <td>
      <label>ALAMAT</label>
    </td>
    <td>
      <input type="text" name="alamat" class="form-control"
value="{{ $model->alamat }}" placeholder="Input alamat disini !" required>
    </td>
  </tr>
  <tr>
    <td>
      <button type="submit" class="btn btn-success"
name="simpan">Save</button>
    </td>
  </tr>
</table>
</form>
</div>

```

```
</div>
</body>
</html>
```

WhatsApp | localhost / 127.0.0.1 / prak7 | Prak 7 | Create | Navbar - Bootstrap v5.0 | Arrow left circle - Bootstrap | + | - | X

127.0.0.1:8000/mahasiswa/2/edit

←

NIM	<input type="text" value="200411100083"/>
NAMA	<input type="text" value="Astia Nurrahmayanti"/>
UMUR	<input type="text" value="22"/>
ALAMAT	<input type="text" value="Surabaya"/>



8. Resource/views/mahasiswa/editnilai.blade.php : Digunakan untuk edit nilai mahasiswa.

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <link rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.0/css/bootstrap.min.css"
">
  <link rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.4.1/css/bootstrap.min.css"
" integrity="sha384-
Vkoo8x4CGs03+Hhvx8T/Q5PaXtkKtu6ug5TOeNV6gBiFeWPGFN9MuhOf23Q9Ifjh"
crossorigin="anonymous">
  <title>Prak 7 | Create</title>
</head>
<body>
  <a href="\mahasiswa">
    <svg xmlns="http://www.w3.org/2000/svg" width="40" height="40"
fill="currentColor" class="bi bi-arrow-left-circle" viewBox="0 0 16 16">
      <path fill-rule="evenodd" d="M1 8a7 7 0 1 0 14 0A7 7 0 0 1 8zm15
0A8 8 0 1 1 0 8a8 8 0 0 1 16 0zm-4.5-.5a.5.5 0 0 1 0 1H5.707l2.147 2.146a.5.5
0 0 1-.708.708l-3-3a.5.5 0 0 1-.708l3-3a.5.5 0 1 1 .708.708L5.707
7.5H11.5z"/>
```

```

    </svg>
</a>
<div class="container">
    <div class="card-body">
        <form method="POST" action="{{url('mahasiswa2/'.$model->id)}}">
            @csrf
            <input type="hidden" name="_method" value="PATCH">
            <table>
                <tr class="form-group">
                    <td>
                        <label>NAMA</label>
                    </td>
                    <td>
                        <input readonly type="text" name="nama" class="from-
control" value="{{ $model->nama }}" placeholder="Input nama disini !" ruqueired>
                    </td>
                </tr>
                <tr class="form-group">
                    <td>
                        <label>NILAI</label>
                    </td>
                    <td>
                        <input type="text" name="nilai" class="from-control"
value="{{ $model->nilai }}" placeholder="Input nilai disini !" ruqueired>
                    </td>
                </tr>
                <tr>
                    <td>
                        <button type="submit" class="btn btn-success"
name="simpan">Save</button>
                    </td>
                </tr>
            </table>
        </form>
    </div>
</div>
</body>
</html>

```

WhatsApp localhost / 127.0.0.1 / prak7/ Prak 7 | Create Navbar - Bootstrap v5.0 Arrow left circle - Bootstrap

127.0.0.1:8000/mahasiswa2/8/edit

←

NAMA Muhammad Ainul Yaqin

NILAI 87

Save

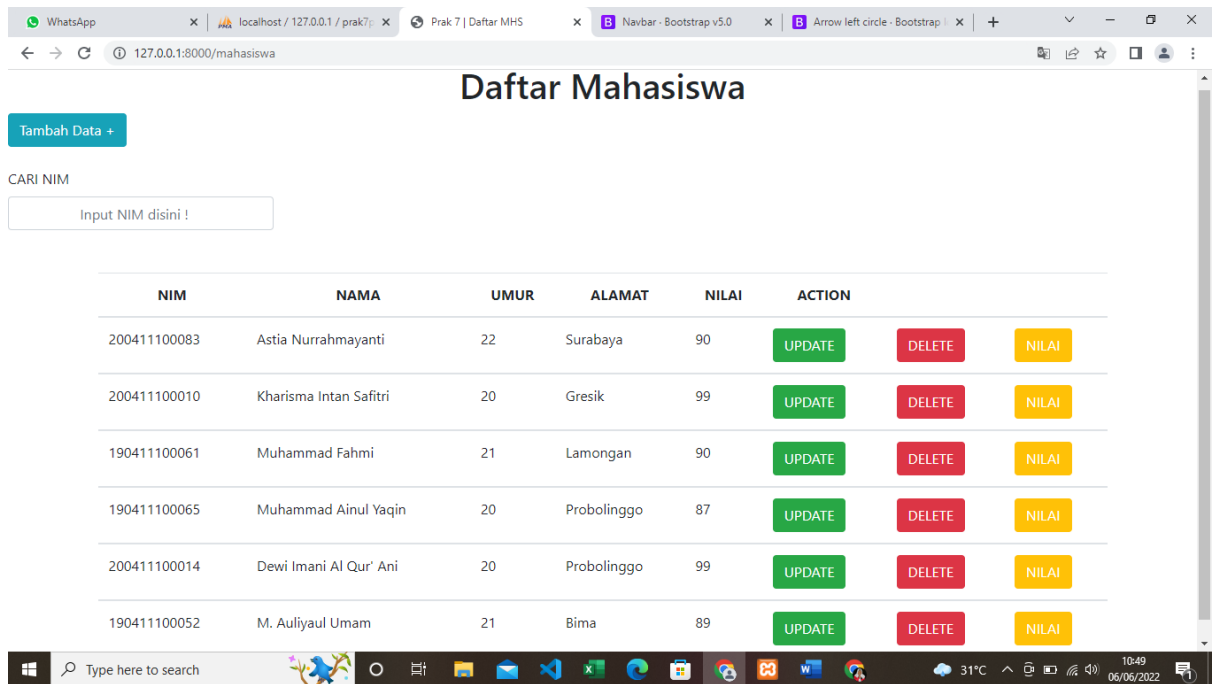
9. Resource/views/mahasiswa/mhs.blade.php : Digunakan untuk menampilkan data mahasiswa.

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <link rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.0/css/bootstrap.min.css"
">
  <title>Prak 7 | Daftar MHS</title>
</head>
<body>
  <h1 class="text-center">Daftar Mahasiswa</h1>
  <button type="button" class="btn btn-info"><a
href="{{url('mahasiswa/create')}}" style= "text-decoration:none;
color:white;">Tambah Data +</a></button>
  <br><br>
  <form action="/mahasiswa" method="GET">
  <tr>
    <td>
      <label>CARI NIM</label>
    </td>
    <td>
      <input type="search" name="search" class="text-center form-
control" style="width:300px" placeholder="Input NIM disini !" ruqueired>
    </td>
  </tr>
  <br><br>
</form>
```

```

<div class="container">
  <div class="row">
    <table class="table">
      <thead>
        <tr class="text-center">
          <th>NIM</th>
          <th>NAMA</th>
          <th>UMUR</th>
          <th>ALAMAT</th>
          <th>NILAI</th>
          <th colspan="3">ACTION</th>
          <th></th>
          <th></th>
        </tr>
      </thead>
      @foreach($datas as $key=>$value)
      <tbody>
        <tr>
          <td>{{ $value->nim }}</td>
          <td>{{ $value->nama }}</td>
          <td>{{ $value->umur }}</td>
          <td>{{ $value->alamat }}</td>
          <td>{{ $value->nilai }}</td>
          <td><button type="button" class="btn btn-success"><a
href="{{url('mahasiswa/' . $value->id . '/edit')}}" style= "text-decoration:none;
color:white;">UPDATE</a></button></td>
          <td>
            <form action="{{url('mahasiswa/' . $value->id)}}" method="POST">
              @csrf
              <input type="hidden" name="_method" value="DELETE">
              <button type="submit" class="btn btn-danger"
style="color:white;">DELETE</button>
            </form>
          </td>
          <td><button type="button" class="btn btn-warning"><a
href="{{url('mahasiswa2/' . $value->id . '/edit')}}" style= "text-decoration:none;
color:white;">NILAI</a></button></td>
        </tr>
      </tbody>
      @endforeach
    </table>
  </div>
</div>
</body>
</html>

```



10. Routes/web.php : untuk mengatur ke controllers.

```
<?php

use Illuminate\Support\Facades\Route;
use App\Http\Controllers\MahasiswaController;
use App\Http\Controllers\Mahasiswa2Controller;
use App\Models\Mahasiswa;

/*
|-----
| Web Routes
|-----
|
| Here is where you can register web routes for your application. These
| routes are loaded by the RouteServiceProvider within a group which
| contains the "web" middleware group. Now create something great!
|
*/

Route::get('/', function () {
    return view('welcome');
});

Route::resource('/mahasiswa', MahasiswaController::class);
Route::resource('/mahasiswa2', Mahasiswa2Controller::class);
```