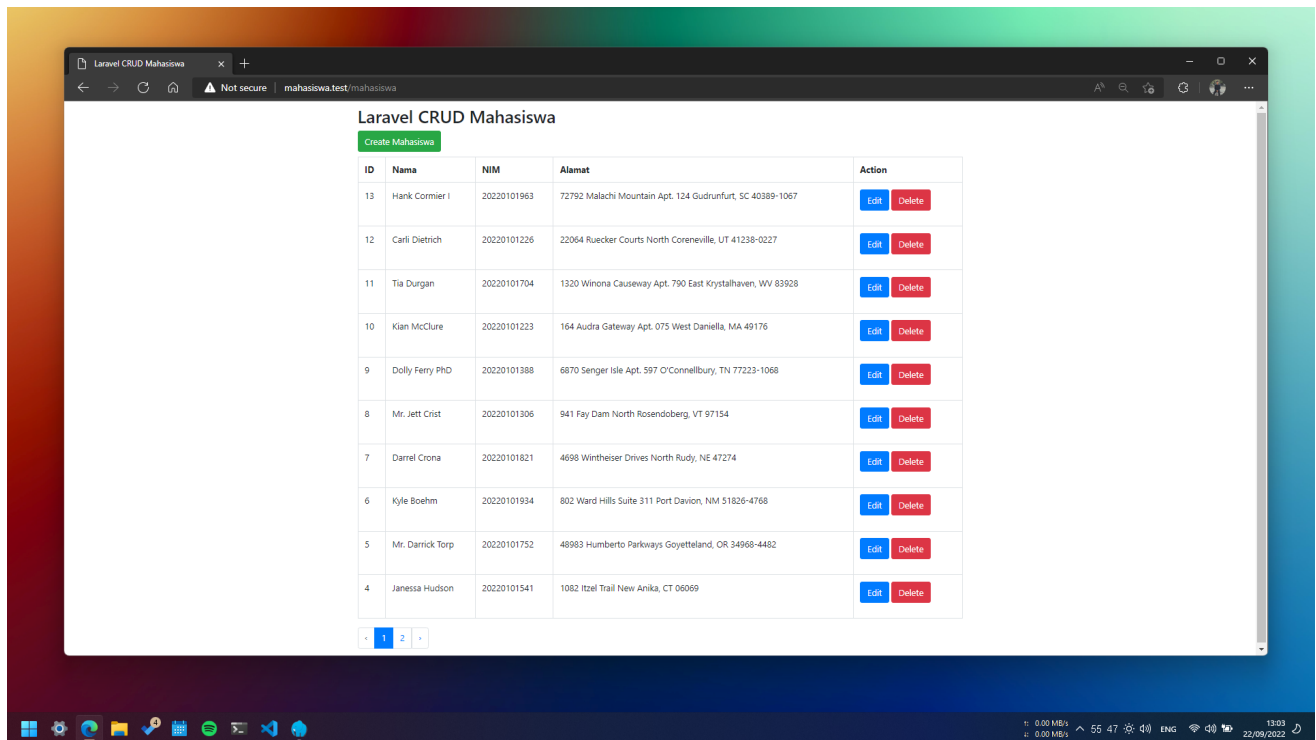


# Laravel 8 CRUD Mahasiswa

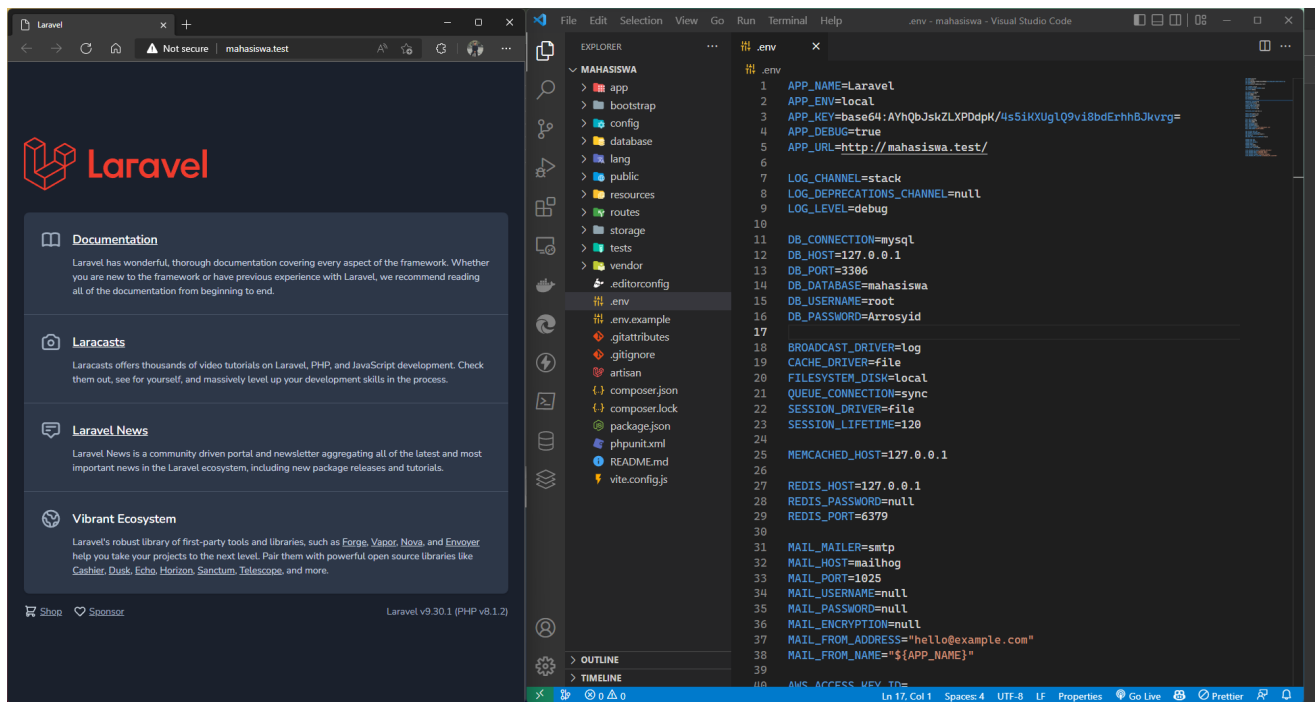


Membuat Laravel CRUD Mahasiswa tanpa Auth dan tanpa relasi DB

## Buat project baru

Buat project baru dengan nama project **mahasiswa** dan setup DB pada `.env` sebagai berikut

```
APP_URL=http://mahasiswa.test/  
DB_DATABASE=mahasiswa  
DB_USERNAME=root  
DB_PASSWORD= #kosongkan kalau tidak ada password
```



# Membuat Model, Migration, Controller dan Factory

Membuat Model dan Migration dengan perintah berikut:

```
php artisan make:model Mahasiswa -m membuat model dan migration
```

```
php artisan make:controller MahasiswaController membuat controller
```

```
php artisan make:factory MahasiswaFactory membuat factory
```

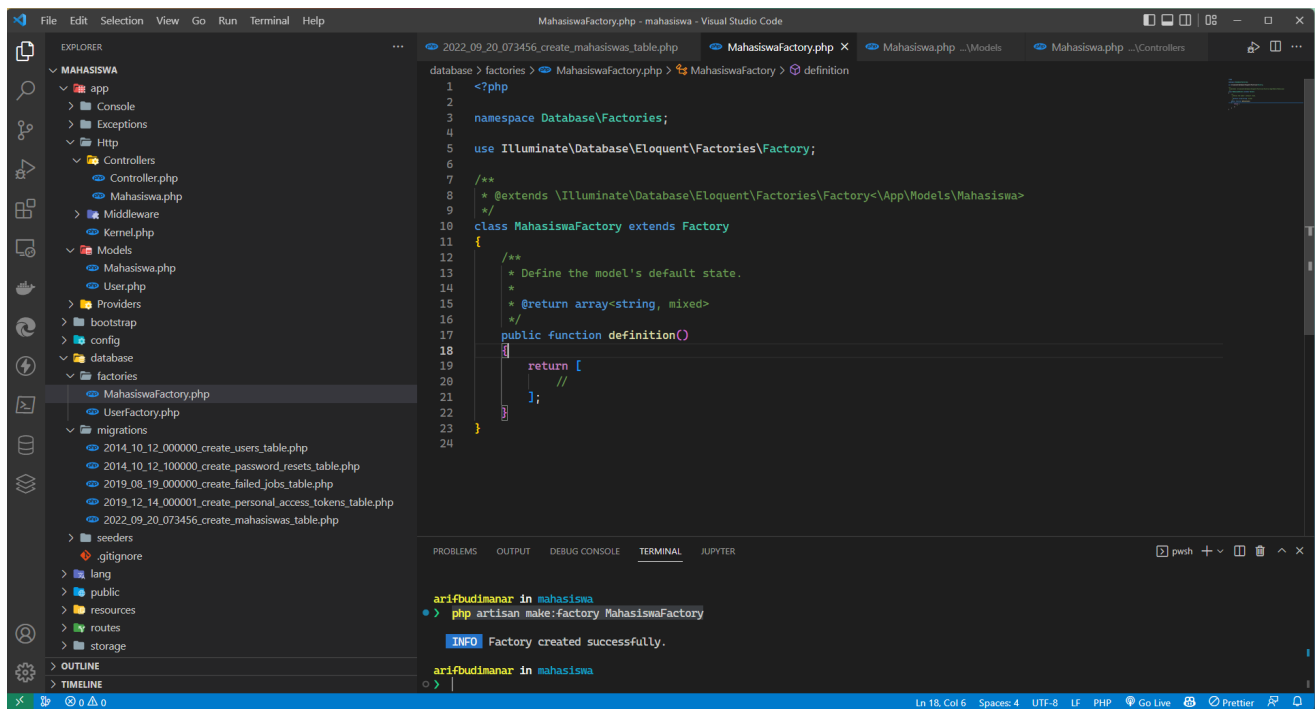
akan ada 4 file baru pada:

```
database\migrations\2022_09_20_073456_create_mahasiswas_table.php
```

```
app\Models\Mahasiswa.php
```

```
app\Http\Controllers\MahasiswaController.php
```

```
database\factories\MahasiswaFactory.php
```



# Edit Migration Mahasiswa

Buka file migration Mahasiswa dan ubah menjadi

```
<?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->string('alamat');
            $table->timestamps();
        });
    }
```

```
    /**
```

```

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

```

lakukan migration dengan `php artisan migrate` dan pastikan sudah ada tabel baru yaitu **mahasiswa**

## Edit Model Mahasiswa

```

<?php

namespace App\Models;

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

class Mahasiswa extends Model
{
    use HasFactory;
    protected $fillable = [
        'nim',
        'nama',
        'alamat',
    ];
}

```

## Edit Factory MahasiswaFactory

```

<?php

namespace Database\Factories;

use Illuminate\Database\Eloquent\Factories\Factory;

/**
 * @extends \Illuminate\Database\Eloquent\Factories\Factory<\App\Models\Mahasiswa>
 */

```

```

class MahasiswaFactory extends Factory
{
    /**
     * Define the model's default state.
     *
     * @return array<string, mixed>
     */
    public function definition()
    {
        return [
            'nama' => fake()->name(),
            'nim' => fake()->unique()->numberBetween(20220101000,
20220101999),
            'alamat' => fake()->address(),
        ];
    }
}

```

## Edit DatabaseSeeder

```

<?php

namespace Database\Seeders;

// use Illuminate\Database\Console\Seeds\WithoutModelEvents;
use Illuminate\Database\Seeder;

class DatabaseSeeder extends Seeder
{
    /**
     * Seed the application's database.
     *
     * @return void
     */
    public function run()
    {
        // \App\Models\User::factory(10)->create();
        // highlight-start
        \App\Models\Mahasiswa::factory(100)->create();
        // highlight-end
        // \App\Models\User::factory()->create([
        //     'name' => 'Test User',
        //     'email' => 'test@example.com',
        // ]);
    }
}

```

lakukan perintah `php artisan db:seed` cek phpMyAdmin maka ada 100 data yang masuk, jika ingin menghapus semua data bisa menggunakan `php artisan migrate:fresh` kalau ingin melakukan hapus data sekaligus membuat data bisa menggunakan `php artisan migrate:fresh --seed`

## Edit Route

```
<?php
```

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

/*
|-----
| 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::get('/mahasiswa', [MahasiswaController::class, 'index'])->
>name('mahasiswa.index'); // View Mahasiswa
Route::get('/mahasiswa/create', [MahasiswaController::class, 'create'])->
>name('mahasiswa.create'); // Create Mahasiswa
Route::post('/mahasiswa', [MahasiswaController::class, 'store'])->
>name('mahasiswa.store'); // Create Mahasiswa
Route::get('/mahasiswa/{mahasiswa}/edit', [MahasiswaController::class,
'edit'])->>name('mahasiswa.edit'); // Edit Mahasiswa
Route::put('/mahasiswa/{mahasiswa}', [MahasiswaController::class,
'update'])->>name('mahasiswa.update'); // Edit Mahasiswa
Route::delete('/mahasiswa/{mahasiswa}/delete', [MahasiswaController::class,
'destroy'])->>name('mahasiswa.destroy'); // Delete Mahasiswa
```

## Edit Controller MahasiswaController

```
<?php
```

```
namespace App\Http\Controllers;
```

```
use App\Models\Mahasiswa;
```

```
use Illuminate\Http\Request;
```

```
class MahasiswaController extends Controller
```

```
{
```

```
    // View Mahasiswa
```

```
    public function index()
```

```
    {
```

```
        $mahasiswa = Mahasiswa::orderBy('id', 'desc')->paginate(10);
```

```
        return view('mahasiswa.index', compact('mahasiswa'));
```

```
    }
```

```
    // Create Mahasiswa
```

```
    public function create()
```

```
    {
```

```
        return view('mahasiswa.create');
```

```
    }
```

```
    public function store(Request $request)
```

```
    {
```

```
        $request->validate([
```

```
            'nama' => 'required',
```

```
            'nim' => 'required|max:11',
```

```
            'alamat' => 'required',
```

```
        ]);
```

```
        Mahasiswa::create($request->post());
```

```
        return redirect()->route('mahasiswa.index')->with('success',  
'Mahasiswa has been created successfully.');
```

```
    }
```

```
    // Edit Mahasiswa
```

```
    public function edit(Mahasiswa $mahasiswa)
```

```
    {
```

```
        return view('mahasiswa.edit', compact('mahasiswa'));
```

```
    }
```

```
    public function update(Request $request, Mahasiswa $mahasiswa)
```

```
    {
```

```
        $request->validate([
```

```
            'nama' => 'required',
```

```
            'nim' => 'required|max:11',
```

```
            'alamat' => 'required',
```

```
        ]);
```

```

        $mahasiswa->fill($request->post())->save();

        return redirect()->route('mahasiswa.index')->with('success',
'Mahasiswa Has Been updated successfully');
    }

    // Delete Mahasiswa
    public function destroy(Mahasiswa $mahasiswa)
    {
        $mahasiswa->delete();
        return redirect()->route('mahasiswa.index')->with('success',
'Mahasiswa has been deleted successfully');
    }
}

```

## index.blade.php

Membuat index.blade.php di folder view/mahasiswa

```

</html>
<!DOCTYPE html>
<html lang="en">

<head>
    <meta charset="UTF-8">
    <title>Laravel CRUD Mahasiswa</title>
    <link rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.
css">
</head>

<body>
    <div class="container mt-2">
        <div class="row">
            <div class="col-lg-12 margin-tb">
                <div class="pull-left">
                    <h2>Laravel CRUD Mahasiswa</h2>
                </div>
                <div class="pull-right mb-2">
                    <a class="btn btn-success" href="{{
route('mahasiswa.create') }}"> Create Mahasiswa</a>
                </div>
            </div>
        </div>
    </div>

```



```

@if ($message = Session::get('success'))
<div class="alert alert-success">
    <p>{{ $message }}</p>
</div>
@endif
<table class="table table-bordered">
    <thead>
        <tr>
            <th>ID</th>
            <th>Nama</th>
            <th>NIM</th>
            <th>Alamat</th>
            <th width="200px">Action</th>
        </tr>
    </thead>
    <tbody>
        @foreach ($mahasiswa as $data)
            <tr>
                <td>{{ $data->id }}</td>
                <td>{{ $data->nama }}</td>
                <td>{{ $data->nim }}</td>
                <td>{{ $data->alamat }}</td>
                <td>
                    <form action="{{ route('mahasiswa.destroy', $data-
>id) }}" method="Post">
                        <a class="btn btn-primary" href="{{
route('mahasiswa.edit', $data->id) }}">Edit</a>
                        @csrf
                        @method('DELETE')
                        <button type="submit" class="btn btn-
danger">Delete</button>
                    </form>
                </td>
            </tr>
        @endforeach
    </tbody>
</table>
{!! $mahasiswa->links() !!}
</div>
</body>
</html>

```

## create.blade.php

Membuat create.blade.php di folder view/mahasiswa

```

<!DOCTYPE html>
<html lang="en">

<head>
    <meta charset="UTF-8">
    <title>Add Mahasiswa</title>
    <link rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.
css">
</head>

<body>
    <div class="container mt-2">
        <div class="row">
            <div class="col-lg-12 margin-tb">
                <div class="pull-left mb-2">
                    <h2>Add Mahasiswa</h2>
                </div>
                <div class="pull-right">
                    <a class="btn btn-primary" href="{{
route('mahasiswa.index') }}"> Back</a>
                </div>
            </div>
        </div>
        @if(session('status'))
        <div class="alert alert-success mb-1 mt-1">
            {{ session('status') }}
        </div>
        @endif
        <form action="{{ route('mahasiswa.store') }}" method="POST"
enctype="multipart/form-data">
            @csrf
            <div class="row">
                <div class="col-xs-12 col-sm-12 col-md-12">
                    <div class="form-group">
                        <strong>Nama</strong>
                        <input type="text" name="nama" class="form-control"
placeholder="Nama">
                        @error('nama')
                        <div class="alert alert-danger mt-1 mb-1">{{
$message }}</div>
                        @enderror
                    </div>
                </div>
                <div class="col-xs-12 col-sm-12 col-md-12">
                    <div class="form-group">
                        <strong>NIM</strong>
                        <input type="number" name="nim" class="form-
control" placeholder="NIM">

```

```

        @error('nim')
        <div class="alert alert-danger mt-1 mb-1">{{
$message }}</div>

        @enderror
    </div>
</div>
<div class="col-xs-12 col-sm-12 col-md-12">
    <div class="form-group">
        <strong>Alamat</strong>
        <input type="text" name="alamat" class="form-
control" placeholder="Alamat">
        @error('alamat')
        <div class="alert alert-danger mt-1 mb-1">{{
$message }}</div>
        @enderror
    </div>
</div>
<button type="submit" class="btn btn-primary ml-
3">Submit</button>
</div>
</form>
</div>
</body>
</html>

```

## edit.blade.php

Membuat edit.blade.php di folder view/mahasiswa

```

<!DOCTYPE html>
<html lang="en">

<head>
    <meta charset="UTF-8">
    <title>Edit Company Form - Laravel 9 CRUD Tutorial</title>
    <link rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.
css">
</head>

<body>
    <div class="container mt-2">
        <div class="row">
            <div class="col-lg-12 margin-tb">
                <div class="pull-left">
                    <h2>Edit Company</h2>
                </div>

```

```

        <div class="pull-right">
            <a class="btn btn-primary" href="{{
route('mahasiswa.index') }}" enctype="multipart/form-data">
                Back</a>
        </div>
    </div>
</div>
</div>
@if(session('status'))
<div class="alert alert-success mb-1 mt-1">
    {{ session('status') }}
</div>
@endif
<form action="{{ route('mahasiswa.update',$mahasiswa->id) }}"
method="POST" enctype="multipart/form-data">
    @csrf
    @method('PUT')
    <div class="row">
        <div class="col-xs-12 col-sm-12 col-md-12">
            <div class="form-group">
                <strong>Nama</strong>
                <input type="text" name="nama" value="{{
$mahasiswa->nama }}" class="form-control"
                    placeholder="Nama">
                @error('nama')
                <div class="alert alert-danger mt-1 mb-1">{{
$message }}</div>
                @enderror
            </div>
        </div>
        <div class="col-xs-12 col-sm-12 col-md-12">
            <div class="form-group">
                <strong>NIM</strong>
                <input type="number" name="nim" class="form-
control" placeholder="NIM"
                    value="{{ $mahasiswa->nim }}">
                @error('nim')
                <div class="alert alert-danger mt-1 mb-1">{{
$message }}</div>
                @enderror
            </div>
        </div>
        <div class="col-xs-12 col-sm-12 col-md-12">
            <div class="form-group">
                <strong>Alamat</strong>
                <input type="text" name="alamat" value="{{
$mahasiswa->alamat }}" class="form-control"
                    placeholder="Alamat">
                @error('alamat')
                <div class="alert alert-danger mt-1 mb-1">{{

```

```

$message }}</div>
        @enderror
    </div>
</div>
    <button type="submit" class="btn btn-primary ml-
3">Submit</button>
</div>
</form>
</div>
</body>

</html>

```

## Edit AppServiceProvider

Mengedit AppServiceProvider agar bisa menggunakan paginate

```

<?php

namespace App\Providers;

use Illuminate\Pagination\Paginator;
use Illuminate\Support\ServiceProvider;

class AppServiceProvider extends ServiceProvider
{
    /**
     * Register any application services.
     *
     * @return void
     */
    public function register()
    {
        //
    }

    /**
     * Bootstrap any application services.
     *
     * @return void
     */
    public function boot()
    {
        Paginator::useBootstrap();
    }
}

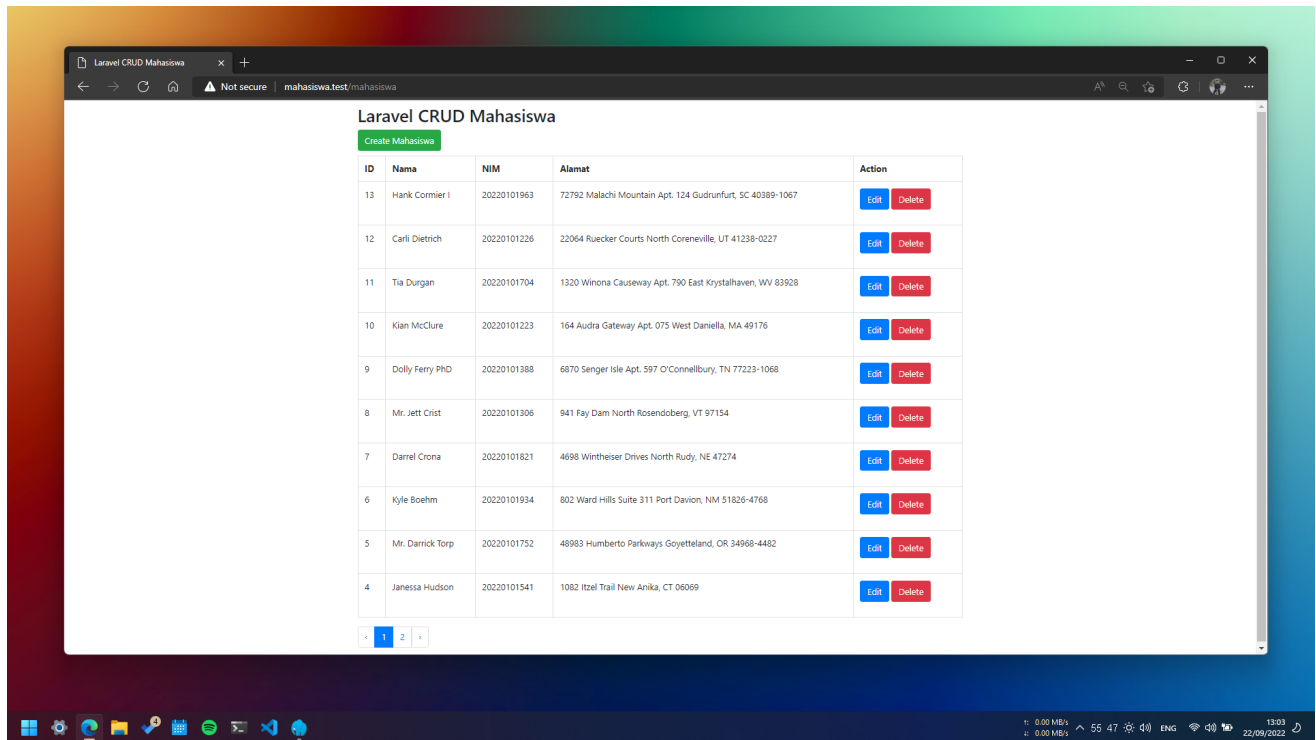
```

```
}
```

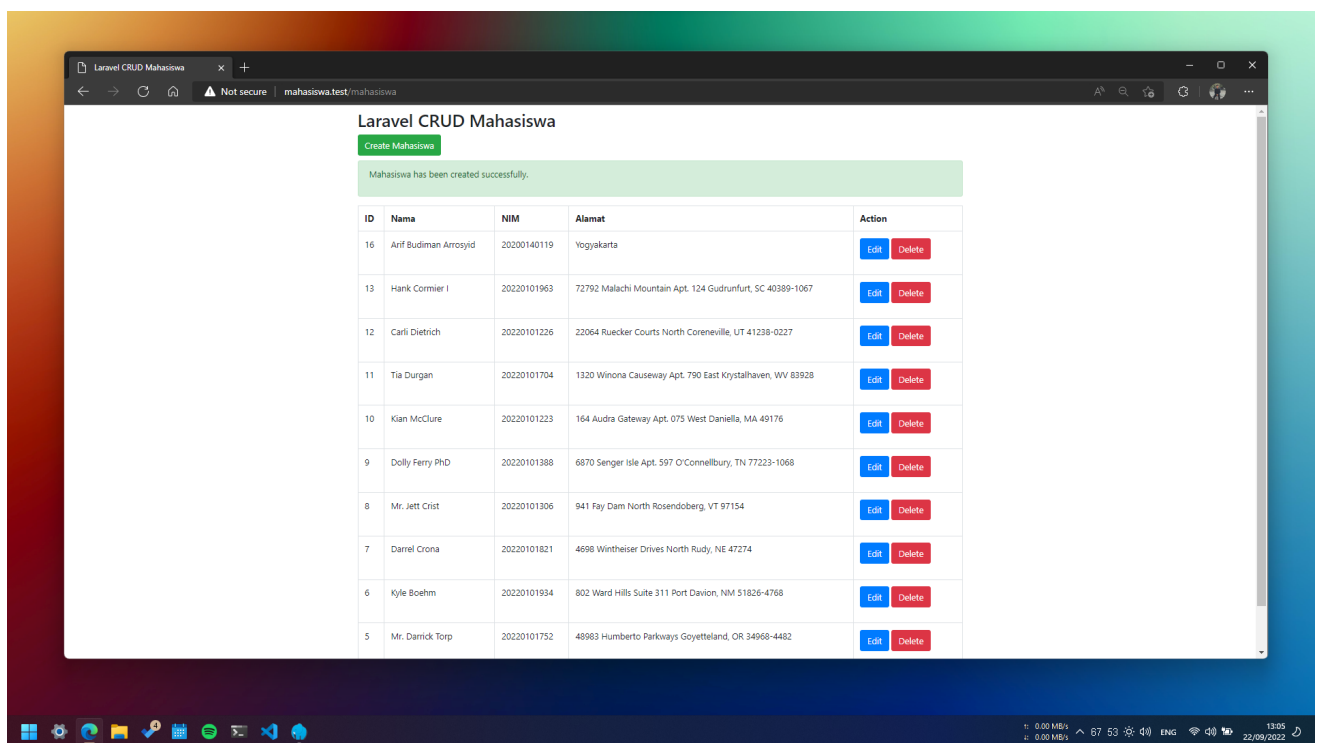
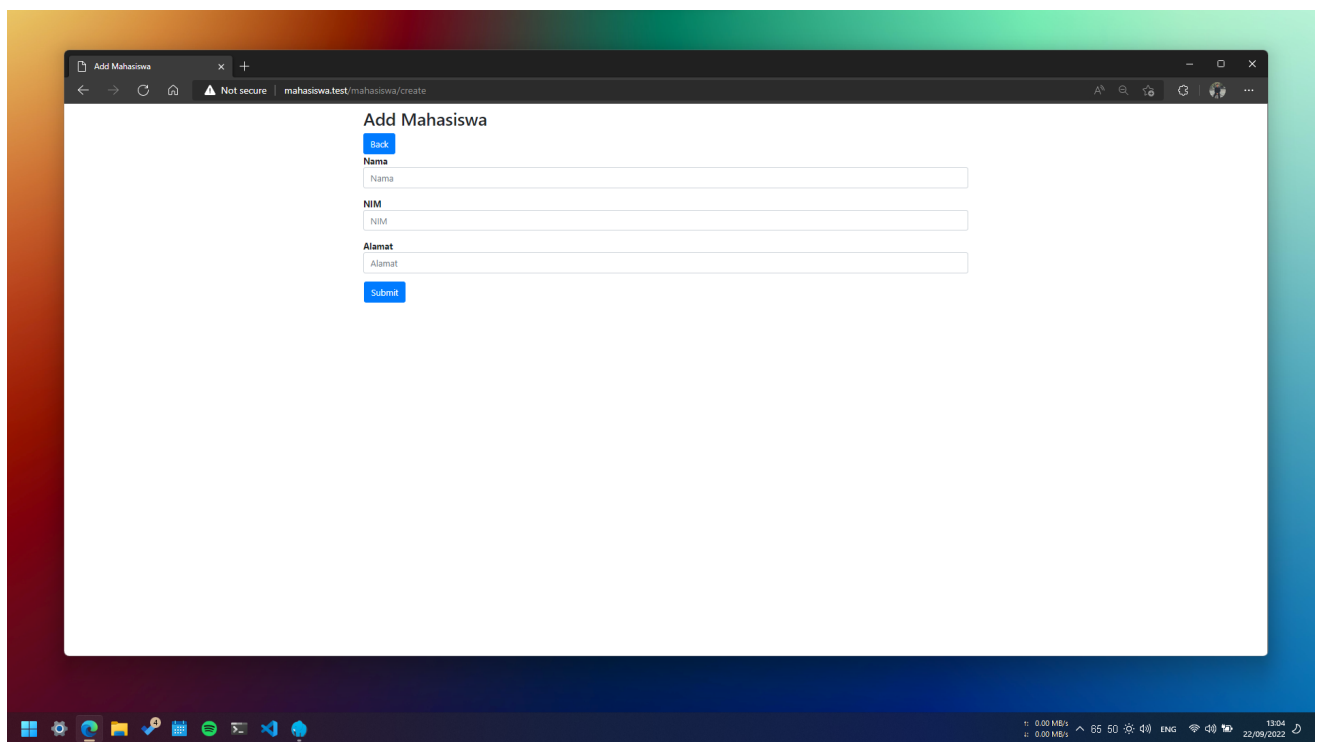
# Hasil

jika tidak ada eror maka akan muncul pada <http://mahasiswa.test/mahasiswa>

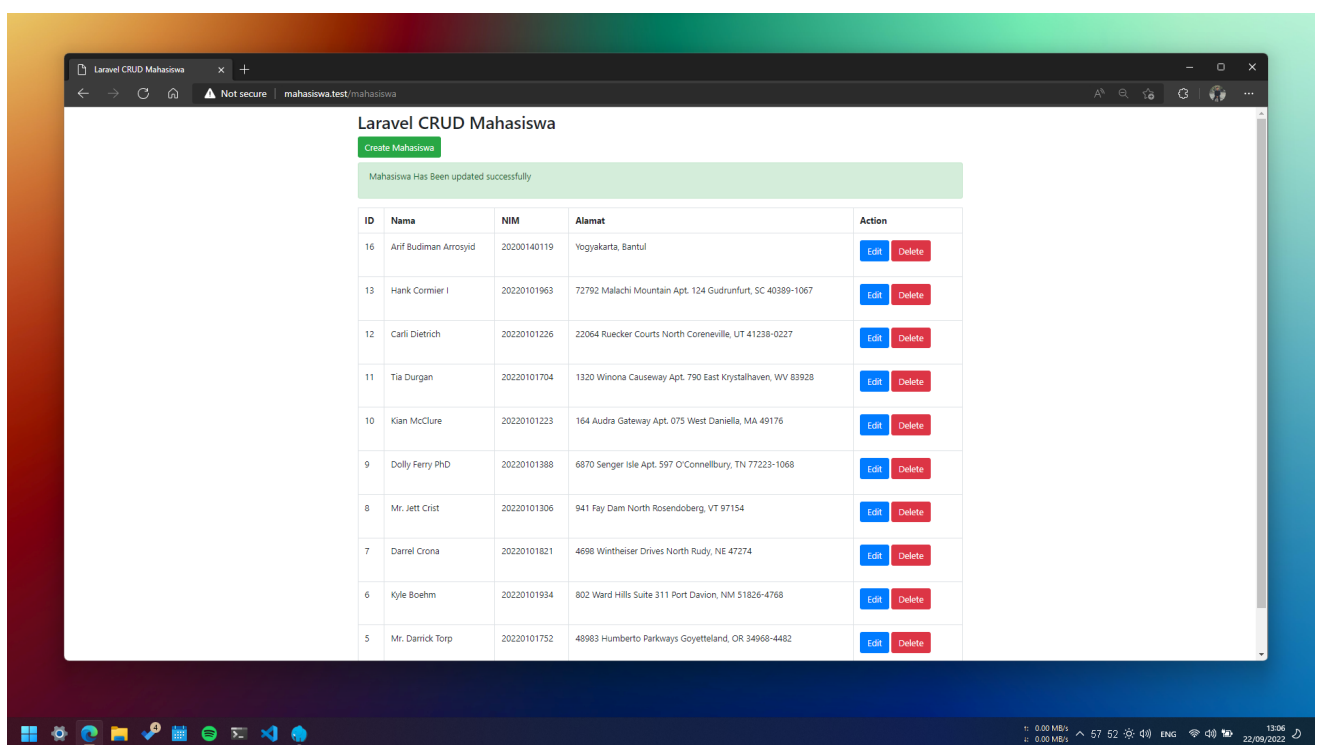
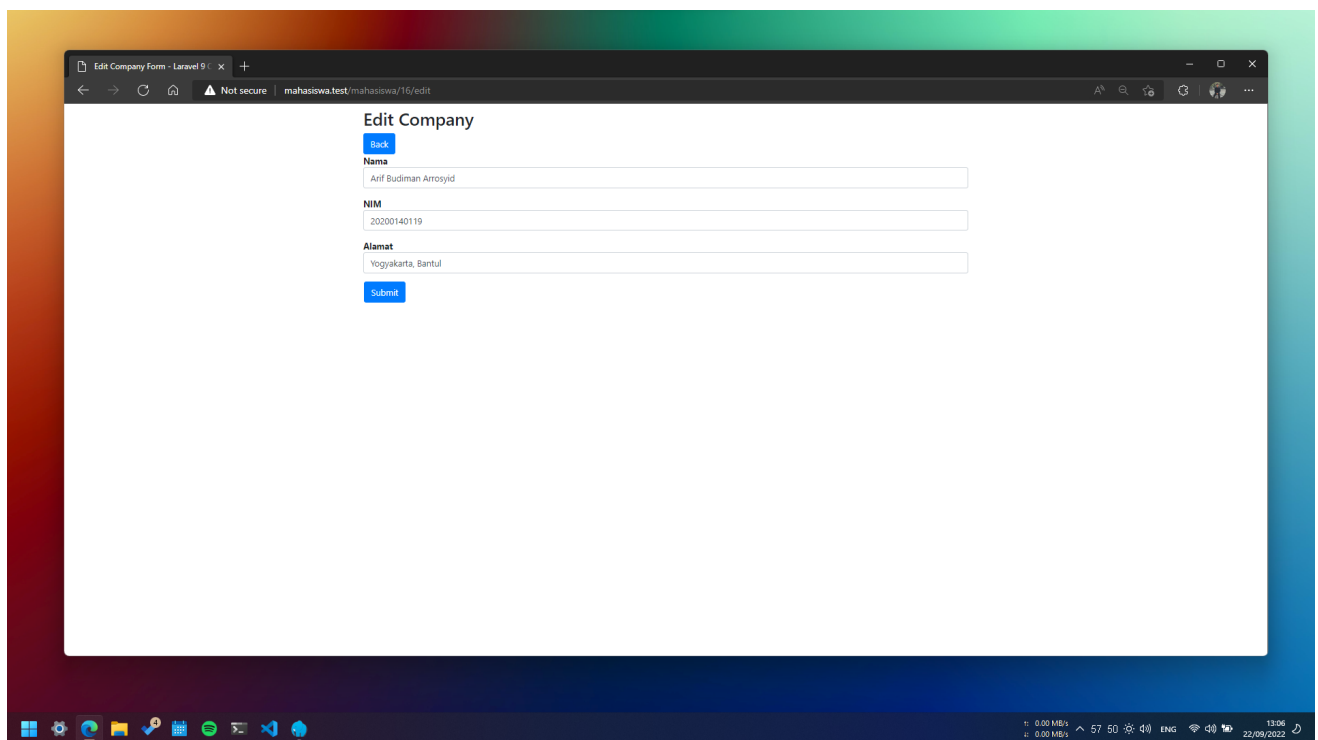
## Index



## Create



Edit



Delete



Laravel CRUD Mahasiswa

Create Mahasiswa

Mahasiswa has been deleted successfully

ID	Nama	NIM	Alamat	Action
13	Hank Cormier I	20220101963	72792 Malachi Mountain Apt. 124 Gudrunfurt, SC 40389-1067	<a href="#">Edit</a> <a href="#">Delete</a>
12	Carli Dietrich	20220101226	22064 Ruecker Courts North Coreneville, UT 41238-0227	<a href="#">Edit</a> <a href="#">Delete</a>
11	Tia Durgan	20220101704	1320 Winona Causeway Apt. 790 East Krystalhaven, WV 83928	<a href="#">Edit</a> <a href="#">Delete</a>
10	Kian McClure	20220101223	164 Audra Gateway Apt. 075 West Daniella, MA 49176	<a href="#">Edit</a> <a href="#">Delete</a>
9	Dolly Ferry PhD	20220101388	6870 Senger Isle Apt. 597 O'Connellbury, TN 77223-1068	<a href="#">Edit</a> <a href="#">Delete</a>
8	Mr. Jett Crist	20220101306	941 Fay Dam North Rosendoberg, VT 97154	<a href="#">Edit</a> <a href="#">Delete</a>
7	Darrel Crona	20220101821	4698 Wintheiser Drives North Rudy, NE 47274	<a href="#">Edit</a> <a href="#">Delete</a>
6	Kyle Boehm	20220101934	802 Ward Hills Suite 311 Port Davion, NM 51826-4768	<a href="#">Edit</a> <a href="#">Delete</a>
5	Mr. Darrick Torp	20220101752	48983 Humberto Parkways Goyetteland, OR 34968-4482	<a href="#">Edit</a> <a href="#">Delete</a>
4	Janessa Hudson	20220101541	1082 Itzel Trail New Anika, CT 06069	<a href="#">Edit</a> <a href="#">Delete</a>

