

README.md

Sismenkes Bengkel Koding

Repositori tugas bengkel koding website sismenkes dengan laravel.

Nama : Heryawan Eko Saputro

NIM : A11.2022.14237

Cara menjalankan projek secara lokal

1. Clone repositori:

```
git clone https://github.com/yourusername/RavelaBkod.git  
cd RavelaBkod
```

2. Install dependensi PHP:

```
composer install
```

3. Install dependensi node:

```
npm install
```

4. Setup environment lokal:

```
cp .env.example .env  
php artisan key:generate
```

5. Jalankan migrasi beserta seeder:

```
php artisan migrate --seed
```

6. Jalankan projek:

```
php artisan serve
```

Route Documentation

Authentication Routes

Route	Controller	Middleware	Deskripsi
/register	AuthController@showRegisterForm	-	Halaman register
/register	AuthController@register	-	Redirect register
/login	AuthController@showLoginForm	-	Halaman login
/login	AuthController@login	-	Redirect login
/logout	AuthController@logout	auth	Redirect logout

Doctor Routes

Route	Controller	Middleware	Description
/dokter/dashboard	-	auth, role:dokter	Halaman dokter
/dokter/obat	ObatController@index	auth, role:dokter	List obat
/dokter/obat/create	ObatController@create	auth, role:dokter	Halaman tambah obat
/dokter/obat	ObatController@store	auth, role:dokter	Simpan obat
/dokter/obat/{id}/edit	ObatController@edit	auth, role:dokter	Halaman edit obat
/dokter/obat/{id}	ObatController@update	auth, role:dokter	Update obat
/dokter/obat/{id}	ObatController@destroy	auth, role:dokter	Hapus obat

Patient Routes

URI	Controller	Middleware	Description
/pasien/dashboard	-	auth, role:pasien	Patient dashboard

Penjelasan implementasi RBAC

1. Role user

- Terdefinisi di kode migrasi user:

```
$table->enum('role', ['pasien', 'dokter'])->default('pasien');
```

2. Role Middleware

- Terdefinisi in bootstrap/app.php :

```
$middleware->alias([  
    'role' => \App\Http\Middleware\RoleMiddleware::class,  
]);
```

3. Proteksi Route

- Route Dokter terhalangi dengan middleware `role:dokter`
- Route Pasien terhalangi dengan middleware `role:pasien`
- Dua duanya memerlukan otentikasi melalui middleware `auth`

4. User Model Relations

```
// Relationship for patient's medical checks  
public function pasiens(): HasMany  
{  
    return $this->hasMany(Periksa::class, 'id_pasien');  
}  
  
// Relationship for doctor's medical checks  
public function dokters(): HasMany  
{  
    return $this->hasMany(Periksa::class, 'id_dokter');  
}
```

Testing RBAC

Anda dapat memastikan apakah fungsi RBAC berfungsi atau tidak dengan:

1. Login sebagai dokter - route /dokter/* dapat diakses tetapi route /pasien/* tidak dapat diakses
2. Login sebagai pasien - route /pasien/* dapat diakses tetapi route /dokter/* tidak dapat diakses
3. User ilegal - Otomatis redirect ke halaman login jika membuka halaman yang memerlukan login

Screenshot akses ditolak



Dokter ketika mencoba mengakses halaman pasien

Skema Database & Model

File Migrasi

1. Migrasi Detail Periksa

```
<?php

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

return new class extends Migration
{
    /**
     * Run the migrations.
     */
    public function up(): void
    {
        Schema::create('detail_periksas', function (Blueprint $table) {
            $table->id();
            $table->foreignId('id_periksa')->constrained('periksas')->onDelete('cascade');
            $table->foreignId('id_obat')->constrained('obats')->onDelete('cascade');
            $table->timestamps();
        });
    }

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

Migrasi untuk tabel detail_periksas

2. Obat Migration

```
<?php

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

return new class extends Migration
{
    /**
     * Run the migrations.
     */
    public function up(): void
    {
        Schema::create('obats', function (Blueprint $table) {
            $table->id();
            $table->string('nama_obat');
            $table->string('kemasan');
            $table->integer('harga');
            $table->timestamps();
        });
    }

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

Migrasi untuk tabel obats

Model Files

1. Model Periksa

```
<?php

namespace App\Models;

use Illuminate\Database\Eloquent\Model;
use Illuminate\Database\Eloquent\Relations\BelongsTo;
use Illuminate\Database\Eloquent\Relations\HasMany;

class Periksa extends Model
{
    protected $fillable = [
        'id_pasien',
        'id_dokter',
        'tgl_periksa',
        'catatan',
        'biaya_periksa',
    ];

    /**
     * Relasi ke tabel User sebagai pasien
     */
    public function pasien(): BelongsTo
    {
        return $this->belongsTo(User::class, 'id_pasien');
    }

    /**
     * Relasi ke tabel User sebagai dokter
     */
    public function dokter(): BelongsTo
    {
        return $this->belongsTo(User::class, 'id_dokter');
    }

    /**
     * Relasi ke tabel DetailPeriksa
     */
    public function detailPeriksas(): HasMany
    {
        return $this->hasMany(DetailPeriksa::class, 'id_periksa');
    }
}
```

Implementasi model Periksa dengan relasinya

2. Model Detail Periksa

```
<?php

namespace App\Models;

use Illuminate\Database\Eloquent\Model;
use Illuminate\Database\Eloquent\Relations\BelongsTo;

class DetailPeriksa extends Model
{
    protected $fillable = [
        'id_periksa',
        'id_obat',
    ];

    /**
     * Relasi ke tabel Periksa
     */
    public function periksa(): BelongsTo
    {
        return $this->belongsTo(Periksa::class, 'id_periksa');
    }

    /**
     * Relasi ke tabel Obat
     */
    public function obat(): BelongsTo
    {
        return $this->belongsTo(Obat::class, 'id_obat');
    }
}
```

Implementasi model DetailPeriksa dengan relasinya

3. Model Obat

```
<?php

namespace App\Models;

use Illuminate\Database\Eloquent\Model;
use Illuminate\Database\Eloquent\Relations\HasMany;

class Obat extends Model
{
    protected $fillable = [
        'nama_obat',
        'kemasan',
        'harga'
    ];

    /**
     * Relasi ke tabel DetailPeriksa
     */
    public function detailPeriksas(): HasMany
    {
        return $this->hasMany(DetailPeriksa::class, 'id_obat');
    }
}
```

Implementasi model Obat dengan relasinya

Database Setup

```
F:\Gitrepo\RavaelaBkod>php artisan migrate --seed

INFO Preparing database.

Creating migration table ..... 567.92ms DONE

INFO Running migrations.

0001_01_01_000000_create_users_table ..... 1s DONE
0001_01_01_000001_create_cache_table ..... 2s DONE
0001_01_01_000002_create_jobs_table ..... 3s DONE
2025_03_08_195709_create_periksas_table ..... 2s DONE
2025_03_08_195718_create_obats_table ..... 232.91ms DONE
2025_03_08_195719_create_detail_periksas_table ..... 2s DONE

INFO Seeding database.

Database\Seeders\DokterSeeder ..... RUNNING
Akun dokter Dr. John Doe berhasil dibuat!
Akun dokter Dr. Jane Smith berhasil dibuat!
Database\Seeders\DokterSeeder ..... 1,444 ms DONE

Database\Seeders\PasienSeeder ..... RUNNING
Akun pasien Kenny Loggins berhasil dibuat!
Akun pasien Peter Parker berhasil dibuat!
Database\Seeders\PasienSeeder ..... 849 ms DONE

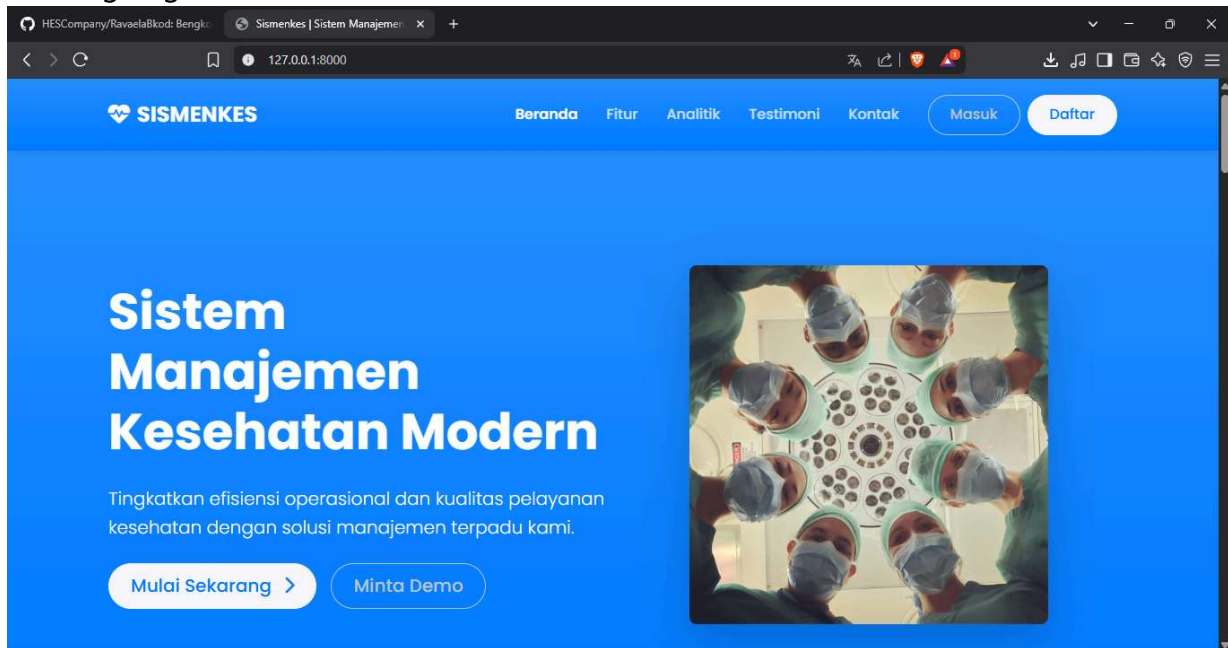
Database\Seeders\ObatSeeder ..... RUNNING
Database\Seeders\ObatSeeder ..... 1,212 ms DONE
```

Screenshot terminal menunjukkan migrasi database berhasil

User Interface

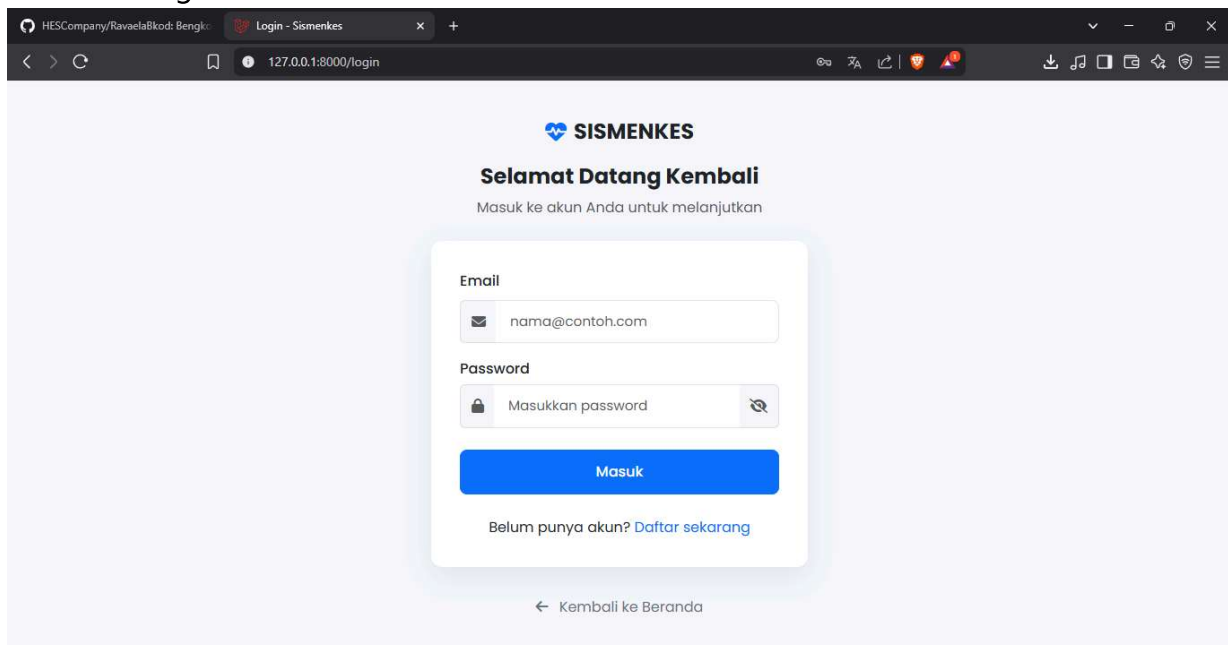
Halaman Publik

1. Landing Page



Halaman awal website yang dapat diakses publik

2. Halaman Login



Halaman login untuk dokter dan pasien

3. Halaman Register

SISMENKES

Buat Akun Baru

Daftar untuk mengakses Sistem Manajemen Kesehatan

Nama Lengkap

Masukkan nama lengkap

Alamat

Masukkan alamat lengkap

Nomor HP

Contoh: 08123456789

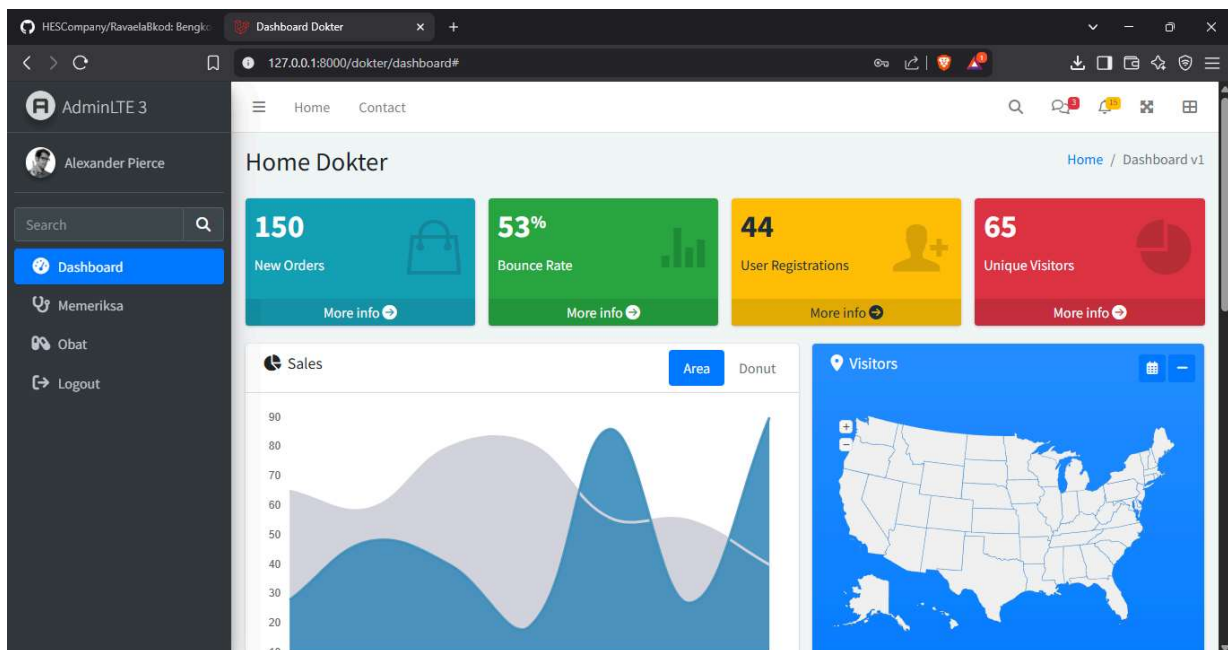
Email

nama@contoh.com

Halaman pendaftaran untuk pasien baru

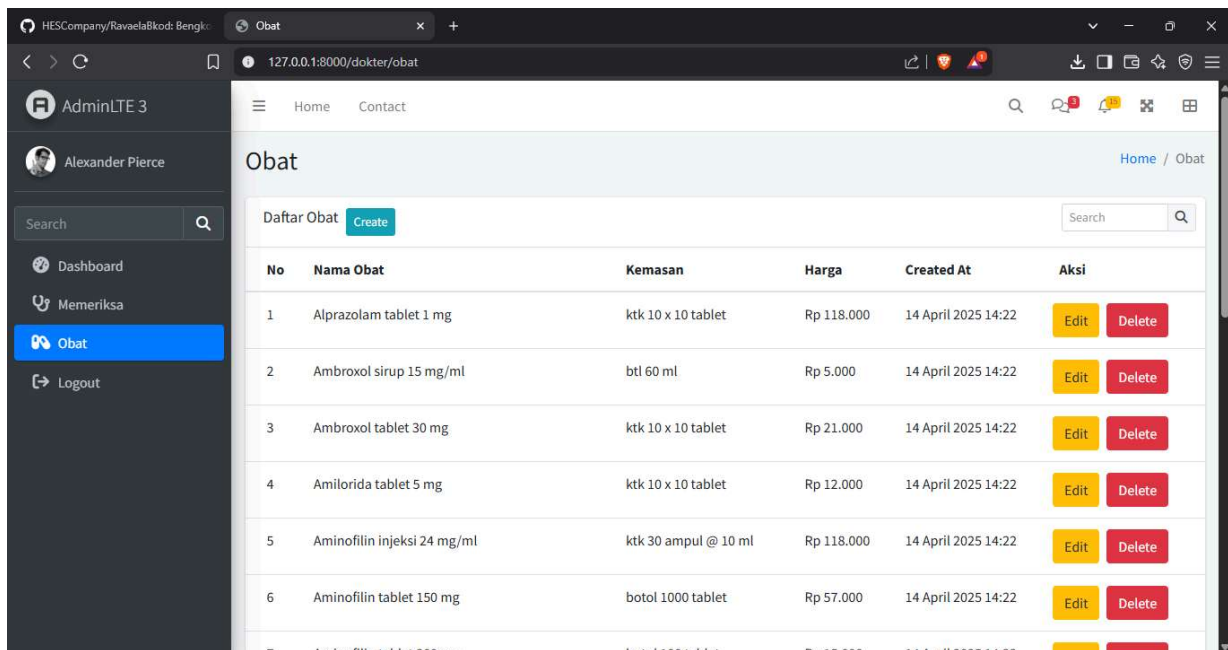
Halaman Dokter

1. Dashboard



Halaman dashboard untuk dokter

2. Daftar Obat



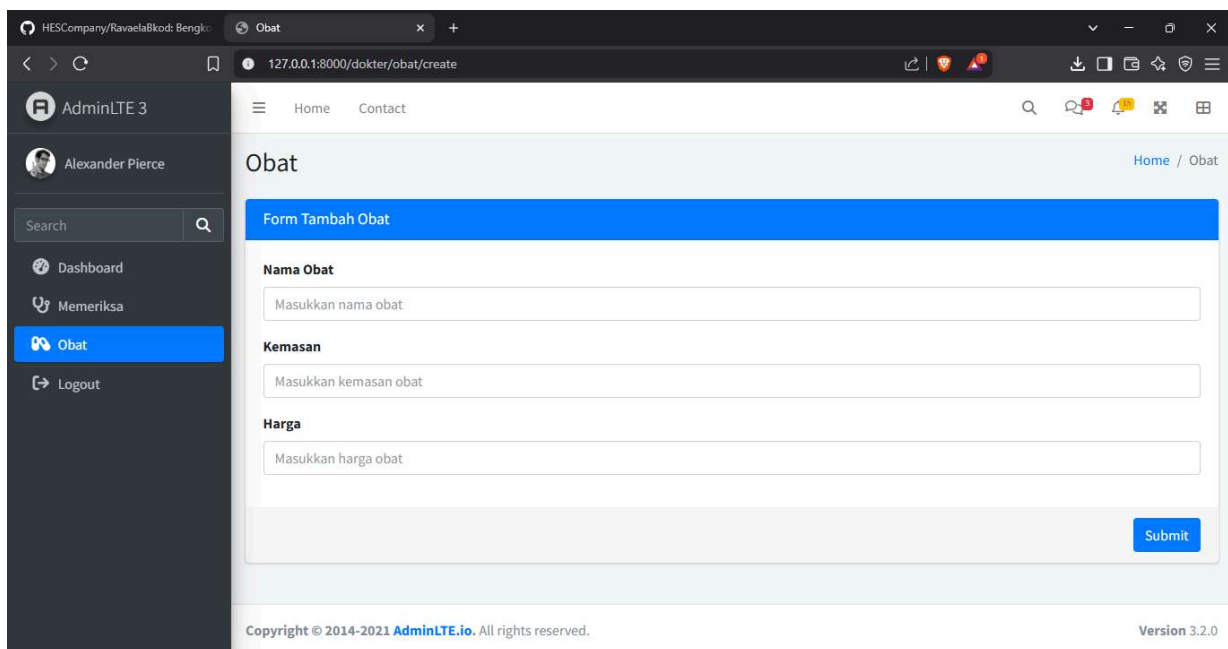
Obat

Daftar Obat [Create](#)

No	Nama Obat	Kemasan	Harga	Created At	Aksi
1	Alprazolam tablet 1 mg	ktk 10 x 10 tablet	Rp 118.000	14 April 2025 14:22	Edit Delete
2	Ambroxol sirup 15 mg/ml	btl 60 ml	Rp 5.000	14 April 2025 14:22	Edit Delete
3	Ambroxol tablet 30 mg	ktk 10 x 10 tablet	Rp 21.000	14 April 2025 14:22	Edit Delete
4	Amilorida tablet 5 mg	ktk 10 x 10 tablet	Rp 12.000	14 April 2025 14:22	Edit Delete
5	Aminofilin injeksi 24 mg/ml	ktk 30 ampul @ 10 ml	Rp 118.000	14 April 2025 14:22	Edit Delete
6	Aminofilin tablet 150 mg	botol 1000 tablet	Rp 57.000	14 April 2025 14:22	Edit Delete
7	Aminofilin tablet 300 mg	botol 100 tablet	Rp 15.000	14 April 2025 14:22	Edit Delete

Halaman pengelolaan daftar obat

3. Form Tambah Obat



Obat

Form Tambah Obat

Nama Obat

Kemasan

Harga

[Submit](#)

Copyright © 2014-2021 [AdminLTE.io](#). All rights reserved. Version 3.2.0

Form untuk menambahkan obat baru