Modul 8

Middleware - Autentikasi – login/logout

Persiapan (1)

- Buat Tabel 'users'
 - Buat tabel, isi data user (username, password)
- Buat Model 'User_m' extends Authenticatable
- Konfigurasi middleware autentikasi (app\Http\Kernel.php)
 - Auth → otentikasi user (proses login)
 - config\auth.php → konfigurasi nama model user
 - app\Providers\RouteServiceProvider.php → konfigurasi const HOME
 - app\Http\Middleware\Authenticate.php → konfigurasi route 'login' di web.php
 - Guest → tanpa login

Persiapan (2)

- Buat view form login
- Modifikasi PerpusController
 - Tambah fungsi login() → menampilkan form login
- Buat LoginController
 - Fungsi authenticate() → untuk login
 - Fungsi logout()
- Modifikasi file view 'perpus/main.blade' → tambah tombol logout
- Modifikasi route 'route/web.php'
- Terapkan middleware 'auth' dan 'guest' pada route

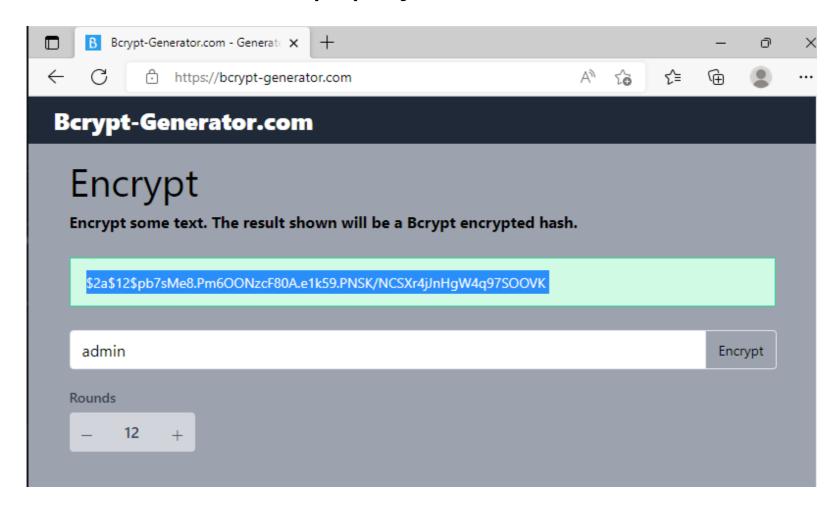
Tabel User

Buat tabel 'users' pada database 'perpus'

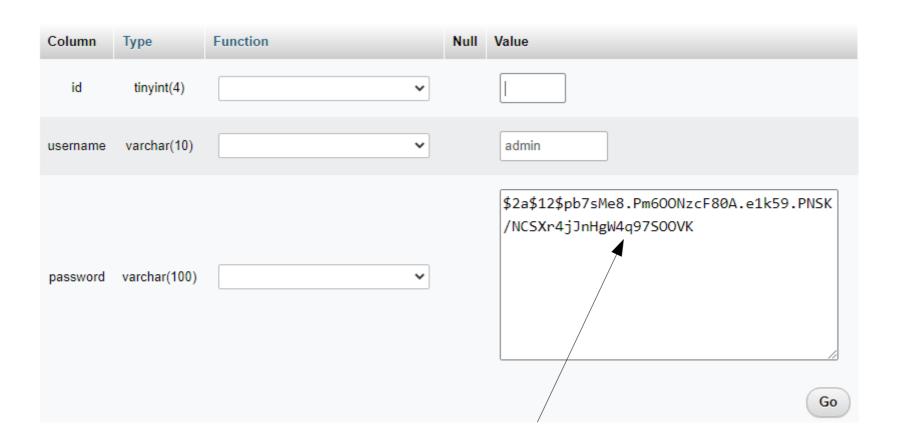
3	#	Name	Туре	Collation	Attributes	Null	Default	Extra
	1	id 🔑	tinyint(4)			No	None	AUTO_INCREMENT
	2	username	varchar(10)	latin1_swedish_ci		No	None	
	3	password	varchar(100)	latin1_swedish_ci		No	None	

Akses bcrypt-generator.com untuk encrypt password (hash Bcrypt)

- Masukkan password yang akan di encrypt (contoh: admin)
- Kemudian salin ke phpmyadmin saat insert data



Tambah minimal 1 (satu) user ke tabel 'users'



Hasil enkripsi menggunakan Bcrypt

Model User

Buat Eloquent Model User (1)

Buat file model User_m.php menggunakan artisan:

```
PS C:\framework\perpus> c:\xampp\php\php artisan make:model User_m
Model created successfully.

PS C:\framework\perpus>
```

• Hasil generate menggunakan artisan:

Edit Eloquent Model "User_m" Inheritance dari Auth\User as Authenticatable

• Edit isi file model "User m.php" sbb:

```
perpus > app > Models > 🦬 User m.php
                                                         Sesuaikan, kelas induk authenticatable
      <?php
                                                         dan detil tabel user
  2
      namespace App\Models;
  4
      use Illuminate\Database\Eloquent\Factories\HasFactory;
  5
      // use Illuminate\Database\Eloquent\Model;
      use Illuminate\Foundation\Auth\User as Authenticatable;
  7
  8
      class User m extends Authenticatable
 10
          use HasFactory;
 11
 12
          protected $table = 'users';
 13
 14
          protected $primaryKey = 'id';
          public $timestamps = false;
 15
 16
          protected $fillable = [
 17
               'username',
 18
               'password',
 19
          1;
 20
 21
```

Halaman Login

Buat File Blade View login

- Simpan pada folder 'resources\views\perpus' dengan nama file 'login.blade.php'
 - C:\framework\perpus\resources\views\perpus\login.blade.php

```
framework > perpus > resources > views > perpus > 😭 login.blade.php
      <!DOCTYPE html>
  1
      <html>
  2
      <head><title>Aplikasi Perpustakaan</title></head>
      <body>
  4
          <h1>Silahkan Login</h1>
  6
          <form action="{{ url('login') }}" method="post" accept-charset="utf-8">
          @csrf
  7
               <label for="username">Username: </label>
  8
               <input type="text" name="username" value="" size="20" />
               <br/><label for="password">Password: </label>
 10
               <input type="password" name="password" value="" size="20"</pre>
 11
               <br/><input type="submit" name="btn simpan" value="Login" />
 12
          </form>
 13
      </body>
 14
      </html>
 15
```

Coba akses view dengan Tambah route '/perpus/login'

- Buka file web.php yang ada di folder:
 - C:\framework\perpus\routes\web.php
- Tambahkan baris berikut:

```
use App\Http\Controllers\PerpusController;
Route::get('/perpus', [PerpusController::class, 'index']);
Route::get('/login', function () {
    return view('perpus.login');
});
```

- Simpan file
- Akses halaman web melalui url: http://localhost:8000/login

Tampilan view halaman login

	🖰 Ap	likasi Perpustakaan	×	+
\leftarrow	C	i localhost:8000/lo	gin	

Silahkan Login

Username:	
Password:	
Login	

Modifikasi Controller perpusController.php tambah method login()

```
perpus > app > Http > Controllers > 🖛 PerpusController.php
       <?php
  1
  2
       namespace App\Http\Controllers;
       use Illuminate\Http\Request;
       class PerpusController extends Controller
           public function index()
  9
 10
 11
               return view('perpus.main');
 12
 13
           public function login()
 14
 15
               return view('perpus.login');
 16
 17
 18
```

Modifikasi Route untuk halaman Login melalui controller

- Lakukan modifikasi pada file route web.php
 - C:\framework\perpus\routes\web.php

Autentikasi Login & Logout

Buat Controller Login

• Buat file controller **LoginController.php** menggunakan artisan:

```
PS C:\framework\perpus> c:\xampp\php\php artisan make:controller LoginController Controller created successfully.

PS C:\framework\perpus>
```

Hasil generate menggunakan artisan:

Edit file Controller Login (1)

```
perpus > app > Http > Controllers > 🐂 LoginController.php
       <?php
  1
  2
  3
      namespace App\Http\Controllers;
  4
  5
      use Illuminate\Http\Request;
      use Illuminate\Support\Facades\Auth;
  6
  7
       class LoginController extends Controller
  8
  9
           public function authenticate(Request $request)
 10
 11
               $credentials = $request->validate([
 12
 13
                   'username' => ['required'],
 14
                   'password' => ['required'],
 15
               1);
 16
               if (Auth::attempt($credentials)) {
 17
                   $request->session()->regenerate();
 18
 19
                   return redirect()->intended('/perpus');
 20
 21
 22
               return back()->with('loginError','Login Gagal.');
 23
```

Edit file Controller Login (2)

```
public function logout(Request $request)

{
    Auth::logout();
    $request->session()->invalidate();
    $request->session()->regenerateToken();
    return redirect('/');
}
```

Modifikasi Route untuk Login

- Lakukan modifikasi pada file route web.php
 - C:\framework\perpus\routes\web.php

```
use App\Http\Controllers\PerpusController;
80
     Route::get('/perpus', [PerpusController::class, 'index']);
81
82
83
     Route::get('/login', function () {
         return view('perpus.login');
84
85
     });
     */
86
     Route::get('/login', [PerpusController::class, 'login']);
87
88
     use App\Http\Controllers\LoginController;
89
     Route::post('/login', [LoginController::class, 'authenticate']);
90
91
```

Tambah fungsi logout pada halaman utama perpus

- Lakukan modifikasi pada file blade perpus/main.blade.php
 - C:\framework\perpus\resources\views\perpus\
 main.blade.php

```
perpus > resources > views > perpus > 🦛 main.blade.php
      <!DOCTYPE html>
      <html>
      <head><title>Aplikasi Perpustakaan</title></head>
  4
      <body>
          <h2>Aplikasi Perpustakaan FTIK USM</h2>
  6
          <b>Pilihan menu :</b>
          (ol>
              <a href="{{ url('buku') }}">Kelola data buku</a>
  8
              <a href="{{ url('anggota') }}">Kelola data anggota</a>
  9
              <a href="{{ url('pinjam') }}">Kelola Transaksi Pinjam</a>
 10
          11
          <a href="{{ url('logout') }}">Logout</a>
 12
      </body>
 13
      </html>
 14
 15
```

Modifikasi Route untuk Logout

- Lakukan modifikasi pada file route web.php
 - C:\framework\perpus\routes\web.php

```
90  use App\Http\Controllers\LoginController;
91  Route::post('/login', [LoginController::class, 'authenticate']);
92  Route::get('/logout', [LoginController::class, 'logout']);
93
94
```

Middleware

Middleware "auth" & "guest" untuk proses autentikasi

- Buka file file 'kernel.php' pada folder:
 - C:\framework\perpus\app\Http\Kernel.php

```
perpus > app > Http > 🖛 Kernel.php
                           are may be apprighted to kilonbo or apea individuality.
 53
            * @var array<string, class-string|string>
 54
 55
 56
           protected $routeMiddleware = [
            → 'auth' => \App\Http\Middleware\Authenticate::class,
 57
               'auth.basic' => \Illuminate\Auth\Middleware\AuthenticateWithBasicAuth::class,
 58
               'cache.headers' => \Illuminate\Http\Middleware\SetCacheHeaders::class,
 59
               'can' => \Illuminate\Auth\Middleware\Authorize::class,
 60

→ 'guest' => \App\Http\Middleware\RedirectIfAuthenticated::class,
 61
               'password.confirm' => \Illuminate\Auth\Middleware\RequirePassword::class,
 62
               'signed' => \Illuminate\Routing\Middleware\ValidateSignature::class,
 63
               'throttle' => \Illuminate\Routing\Middleware\ThrottleRequests::class,
 64
               'verified' => \Illuminate\Auth\Middleware\EnsureEmailIsVerified::class,
 65
 66
           1;
 67
```

Auth → otentikasi user (proses login) Guest → tanpa login

Konfigurasi User Provider

Sesuaikan dengan

- Edit file 'auth.php' pada folder:
 - C:\framework\perpus\config\auth.php

```
nama model yang
62
          'providers' => [
                                                kita buat
              'users' => [
63
                  'driver' => 'eloquent',
64
                  // 'model' => App\Models\User::class,
65
                  'model' => App\Models\User m::class,
66
67
68
             // 'users' => [
69
             // 'driver' => 'database',
70
             // 'table' => 'users',
71
72
73
```

Konfigurasi RouteServiceProvider

- Edit file 'RouteServiceProvider.php' pada folder:
 - C:\framework\perpus\app\Providers\RouteServiceProvider.php

```
class RouteServiceProvider extends ServiceProvider
11
12
         /**
13
          * The path to the "home" route for your application.
14
15
          * This is used by Laravel authentication to redirect users after login.
16
17
          * @var string
18
                                                Sesuaikan dengan route
                                                halaman dashboard
         // public const HOME = '/home';
20
                                                aplikasi perpus
         public const HOME = '/perpus';
21
```

C:\framework\perpus\app\Http\ Middleware\Authenticate.php

```
perpus > app > Http > Middleware > 💝 Authenticate.php
      <?php
  2
      namespace App\Http\Middleware;
  4
      use Illuminate\Auth\Middleware\Authenticate as Middleware;
  5
  6
      class Authenticate extends Middleware
  8
  9
          /**
           * Get the path the user should be redirected to when they are not authenticated.
 10
 11
           * @param \Illuminate\Http\Request $request
 12
           * @return string|null
 13
                                                            Buat nama route 'login' untuk
 14
 15
          protected function redirectTo($request)
                                                            halaman login pada file
 16
                                                            route/web.php sesuai
              if (! $request->expectsJson()) {
 17
                  return route('login');
                                                            konfigurasi
 18
 19
 20
 21
```

Modifikasi Route

Modifikasi Route get /login beri nama 'login' sesuai Middleware\Authenticate.php

- Lakukan modifikasi pada file route web.php
 - C:\framework\perpus\routes\web.php

Modifikasi Route 'l' menuju halaman dasboard perpus

- Lakukan modifikasi pada file route web.php
 - C:\framework\perpus\routes\web.php

```
16 Route::get('/', function () {
17     //return view('ftik');
18     return redirect('perpus');
19 });
```

Route yang menggunakan middleware

Route	middleware
/	auth
/buku	auth
/anggota	auth
/pinjam	auth
/perpus	auth
/login	guest

Modifikasi Route untuk implementasi middleware 'auth' dan 'guest'

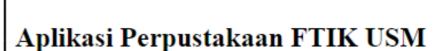
- Lakukan modifikasi pada file route web.php
 - C:\framework\perpus\routes\web.php

```
16
     Route::get('/', function () {
17
         //return view('ftik');
         return redirect('perpus');
18
     })->middleware('auth');
19
     Route::get('/buku', [BukuController::class, 'index'])->middleware('auth');
42
     Route::get('/anggota', [AnggotaController::class, 'index'])->middleware('auth');
49
     Route::get('/pinjam', [PinjamController::class, 'index'])->middleware('auth');
75
      Route::get('/perpus', [PerpusController::class, 'index'])->middleware('auth');
83
89
     Route::get('/login', [PerpusController::class, 'login'])->name('login')
              ->middleware('guest');
90
```

Tampilan



Setelah Login



Pilihan menu:

- 1. Kelola data buku
- 2. Kelola data anggota
- 3. Kelola Transaksi Pinjam

Logout