

Tugas Prak.Pemrograman Berbasis Web A
untuk memenuhi tugas Prak.Pemrograman Berbasis Web A



Oleh :

Nama : Jati Rahmatulloh

NPM : 4522210039

Dosen :

Adi Wahyu Pribadi , S.Si., M.Kom

S1-Teknik Informatika

Fakultas Teknik Universitas Pancasila

2023/2024

BAB I

PENDAHULUAN

1.1 Latar Belakang

Dalam perkembangan teknologi web modern, Laravel telah muncul sebagai salah satu framework PHP paling populer dan powerful untuk pengembangan aplikasi web. Framework ini menawarkan struktur yang elegan, fitur-fitur canggih, dan kemudahan dalam pengembangan aplikasi yang scalable.

Praktikum ini akan memfokuskan pada implementasi sistem autentikasi menggunakan Laravel Breeze, sebuah package ringan yang menyediakan starter kit untuk autentikasi dalam aplikasi Laravel. Breeze menawarkan solusi autentikasi yang simpel namun powerful, memungkinkan pengembang untuk dengan cepat mengintegrasikan fitur login, registrasi, dan manajemen password ke dalam aplikasi mereka.

Autentikasi merupakan komponen kritis dalam sebagian besar aplikasi web modern, memastikan keamanan data pengguna dan mengontrol akses ke berbagai fitur aplikasi. Melalui implementasi menggunakan Laravel Breeze, kita akan mengeksplorasi berbagai aspek autentikasi seperti registrasi pengguna, login, logout, reset password, dan verifikasi email. Praktikum ini juga akan memanfaatkan berbagai best practices Laravel seperti database migrations, form validation, dan fitur keamanan yang sudah built-in dalam framework.

1.2 Tujuan

1. Memahami konsep dasar framework Laravel dalam pengembangan aplikasi web berbasis PHP
2. Mempelajari dan mengimplementasikan sistem autentikasi menggunakan Laravel Breeze
3. Memahami komponen-komponen utama autentikasi seperti registrasi, login, logout, dan reset password
4. Mengeksplorasi integrasi Breeze dengan frontend stack modern, khususnya Tailwind CSS
5. Mempraktikkan penggunaan fitur-fitur Laravel seperti database migrations, form validation, dan middleware dalam konteks autentikasi
6. Mengimplementasikan verifikasi email sebagai bagian dari proses autentikasi yang aman

BAB II

PEMBAHASAN

2.1 Penjelasan

Membuat folder baru menggunakan laragon di cmd

```
C:\WINDOWS\system32\cmd. X Windows PowerShell X + v
Microsoft Windows [Version 10.0.22631.4317]
(c) Microsoft Corporation. All rights reserved.

D:\laragon\www>php -v
PHP 8.1.17 (cli) (built: Mar 14 2023 23:07:43) (ZTS Visual C++ 2019 x64)
Copyright (c) The PHP Group
Zend Engine v4.1.17, Copyright (c) Zend Technologies

D:\laragon\www>composer create-project laravel/laravel auth
Creating a "laravel/laravel" project at "./auth"
Cannot use laravel/laravel's latest version v11.3.1 as it requires php ^8.2 which is not satisfied by your platform.
Installing laravel/laravel (v10.3.3)
- Installing laravel/laravel (v10.3.3): Extracting archive
Created project in D:\laragon\www\auth
> @php -r "file_exists('.env') || copy('.env.example', '.env');"
Loading composer repositories with package information
Updating dependencies
Lock file operations: 111 installs, 0 updates, 0 removals
- Locking brick/math (0.12.1)
- Locking carbonphp/carbon-doctrine-types (2.1.0)
- Locking dflydev/dot-access-data (v3.0.3)
- Locking doctrine/inflector (2.0.10)
- Locking doctrine/lexer (3.0.1)
- Locking dragonmantank/cron-expression (v3.4.0)
- Locking egulias/email-validator (4.0.2)
- Locking fakerphp/faker (v1.23.1)
- Locking filp/whoops (2.16.0)
- Locking fruitcake/php-cors (v1.3.0)
- Locking graham-campbell/result-type (v1.1.3)
- Locking guzzlehttp/guzzle (v9.5.2)
- Locking guzzlehttp/promises (2.0.4)
- Locking guzzlehttp/psr7 (2.7.0)
- Locking guzzlehttp/uri-template (v1.0.3)
- Locking hamcrest/hamcrest-php (v2.0.1)
- Locking laravel/framework (v10.48.22)
```

masuk ke folder yang baru auth yang sebelumnya dibuat di cmd

```
C:\WINDOWS\system32\cmd. X Windows PowerShell X + v
- Installing spatie/laravel-ignition (2.8.0): Extracting archive
60 package suggestions were added by new dependencies, use 'composer suggest' to see details.
Generating optimized autoload files
> Illuminate\Foundation\ComposerScripts::postAutoloadDump
> @php artisan package:discover --ansi

 INFO  Discovering packages.

laravel/sail ..... DONE
laravel/sanctum ..... DONE
laravel/tinker ..... DONE
nesbot/carbon ..... DONE
nunomaduro/collision ..... DONE
nunomaduro/termwind ..... DONE
spatie/laravel-ignition ..... DONE

82 packages you are using are looking for funding.
Use the 'composer fund' command to find out more!
> @php artisan vendor:publish --tag=laravel-assets --ansi --force

 INFO  No publishable resources for tag [laravel-assets].

No security vulnerability advisories found.
> @php artisan key:generate --ansi

 INFO  Application key set successfully.

D:\laragon\www>cd auth
D:\laragon\www\auth>php artisan migrate

 WARN  The database 'laravel' does not exist on the 'mysql' connection.

Would you like to create it? (yes/no) [no]
```

migrate database di cmd

```
C:\WINDOWS\system32\cmd. x Windows PowerShell x + v

D:\laragon\www\auth>php artisan migrate

  WARN  The database 'laravel' does not exist on the 'mysql' connection.

Would you like to create it? (yes/no) [no]
> yes

  INFO  Preparing database.

Creating migration table ..... 22ms DONE

  INFO  Running migrations.

2014_10_12_000000_create_users_table ..... 27ms DONE
2014_10_12_100000_create_password_reset_tokens_table ..... 13ms DONE
2019_08_19_000000_create_failed_jobs_table ..... 26ms DONE
2019_12_14_000001_create_personal_access_tokens_table .... 36ms DONE

D:\laragon\www\auth>php artisan migrate

  INFO  Nothing to migrate.

D:\laragon\www\auth>composer require laravel/breeze --dev
Cannot use laravel/breeze's latest version v2.2.2 as it requires php ^8.2.0 which is not satisfied by your platform.
./composer.json has been updated
Running composer update laravel/breeze
Loading composer repositories with package information
Updating dependencies
Lock file operations: 1 install, 0 updates, 0 removals
  - Locking laravel/breeze (v1.29.1)
Writing lock file
Installing dependencies from lock file (including require-dev)
```

Install Laravel Breeze

```
C:\WINDOWS\system32\cmd. x Windows PowerShell x + v

D:\laragon\www\auth>composer require laravel/breeze --dev
Cannot use laravel/breeze's latest version v2.2.2 as it requires php ^8.2.0 which is not satisfied by your platform.
./composer.json has been updated
Running composer update laravel/breeze
Loading composer repositories with package information
Updating dependencies
Lock file operations: 1 install, 0 updates, 0 removals
  - Locking laravel/breeze (v1.29.1)
Writing lock file
Installing dependencies from lock file (including require-dev)
Package operations: 1 install, 0 updates, 0 removals
  - Installing laravel/breeze (v1.29.1): Extracting archive
Generating optimized autoload files
> Illuminate\Foundation\ComposerScripts::postAutoloadDump
> @php artisan package:discover --ansi

  INFO  Discovering packages.

laravel/breeze ..... DONE
laravel/sail ..... DONE
laravel/sanctum ..... DONE
laravel/tinker ..... DONE
nesbot/carbon ..... DONE
nunomaduro/collision ..... DONE
nunomaduro/termwind ..... DONE
spatie/laravel-ignition ..... DONE

82 packages you are using are looking for funding.
Use the 'composer fund' command to find out more!
> @php artisan vendor:publish --tag=laravel-assets --ansi --force

  INFO  No publishable resources for tag [laravel-assets].
```

Install Scaffolding Breeze

```
C:\WINDOWS\system32\cmd. X Windows PowerShell X + v
D:\laragon\www\auth>php artisan breeze:install

Which Breeze stack would you like to install?
Blade with Alpine ..... blade
Livewire (Volt Class API) with Alpine ..... livewire
Livewire (Volt Functional API) with Alpine ..... livewire-functional
React with Inertia ..... react
Vue with Inertia ..... vue
API only ..... api
> blade

Would you like dark mode support? (yes/no) [no]
> yes

Which testing framework do you prefer? [PHPUnit]
PHPUnit ..... 0
Pest ..... 1
> 0

[INFO] Installing and building Node dependencies.

added 144 packages, and audited 145 packages in 28s

36 packages are looking for funding
  run `npm fund` for details

found 0 vulnerabilities

> build
> vite build

vite v5.4.9 building for production...
transforming...
```

Install npm

```
C:\WINDOWS\system32\cmd. X Windows PowerShell X + v
D:\laragon\www\auth>npm install

up to date, audited 145 packages in 2s

36 packages are looking for funding
  run `npm fund` for details

found 0 vulnerabilities

D:\laragon\www\auth>php artisan serve

[INFO] Server running on [http://127.0.0.1:8000].

Press Ctrl+C to stop the server

2024-10-18 13:31:17 ..... ~ 1s
2024-10-18 13:31:18 /favicon.ico ..... ~ 0s
^C
D:\laragon\www\auth>php artisan make:controller DashboardController

[INFO] Controller [D:\laragon\www\auth\app\Http\Controllers\DashboardController.php] created successfully.

D:\laragon\www\auth>npm run dev

> dev
> vite

VITE v5.4.9 ready in 3101 ms

→ Local: http://localhost:5173/
→ Network: use --host to expose
→ press h + enter to show help
```

Menjalankan server aplikasi

```
D:\laragon\www\auth>php artisan serve

INFO Server running on [http://127.0.0.1:8000].

Press Ctrl+C to stop the server

2024-10-18 13:31:17 ..... ~ 1s
2024-10-18 13:31:18 /favicon.ico ..... ~ 0s
^C
```

Membuat Controller Dashboard lalu edit

app/Http/Controllers/DashboardController.php

```
D:\laragon\www\auth>php artisan make:controller DashboardController

INFO Controller [D:\laragon\www\auth\app\Http\Controllers\DashboardController.php] created successfully.
```

```
<?php

namespace App\Http\Controllers;
use Illuminate\Http\Request;
class DashboardController extends Controller
{
    public function index()
    {
        // Daftar pemain bola
        $players = [
            'Bang Ivar',
            'Bang Jay',
            'Bang Ridho',
            'Om Haye',
            'El Klemer',
        ];
        return view('dashboard', compact('players'));
    }
}
```

Membuat View Dashboard

Edit view resources/views/dashboard.blade.php

```
<x-app-layout>
  <x-slot name="header">
    <h2 class="font-semibold text-xl text-gray-800 leading-tight">
      {{ __('Dashboard') }}
    </h2>
  </x-slot>

  <div class="py-12">
    <div class="max-w-7xl mx-auto sm:px-6 lg:px-8">
      <div class="bg-white overflow-hidden shadow-sm sm:rounded-lg">
        <div class="p-6 text-gray-900">
          {{ __("You're logged in!") }}
        </div>
        <div class="container">
          <style>
            .container {
              padding: 20px;
            }

            ul {
              list-style: none;
              padding: 0;
            }

            ul li {
              margin: 10px 0;
              padding-left: 25px;
              background:
                url('https://img.icons8.com/emoji/48/soccer-ball-emoji.png') no-repeat left
                center;
              background-size: 20px;
            }
          </style>
          <p>Selamat datang, {{ Auth::user()->name }}!</p>

          <h2>Daftar Pemain Bola</h2>
          <ul>
            @foreach($players as $player)
              <li>{{ $player }}</li>
            @endforeach
          </ul>
        </div>
      </div>
    </div>
  </div>
</x-app-layout>
```

Update Routes pada routes/web.php

```
<?php

use App\Http\Controllers\DashboardController;
use App\Http\Controllers\ProfileController;
use Illuminate\Support\Facades\Route;

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

Route::get('/dashboard', function () {
    return view('dashboard');
})->middleware(['auth', 'verified'])->name('dashboard');

Route::middleware('auth')->group(function () {
    Route::get('/profile', [ProfileController::class, 'edit'])->
>name('profile.edit');
    Route::patch('/profile', [ProfileController::class, 'update'])->
>name('profile.update');
    Route::delete('/profile', [ProfileController::class, 'destroy'])->
>name('profile.destroy');
});

Route::get('/dashboard', [DashboardController::class, 'index'])
    ->middleware(['auth', 'verified'])
    ->name('dashboard');

require __DIR__.'/auth.php';
```

Compile Front End

```
D:\laragon\www\auth>npm run dev

> dev
> vite

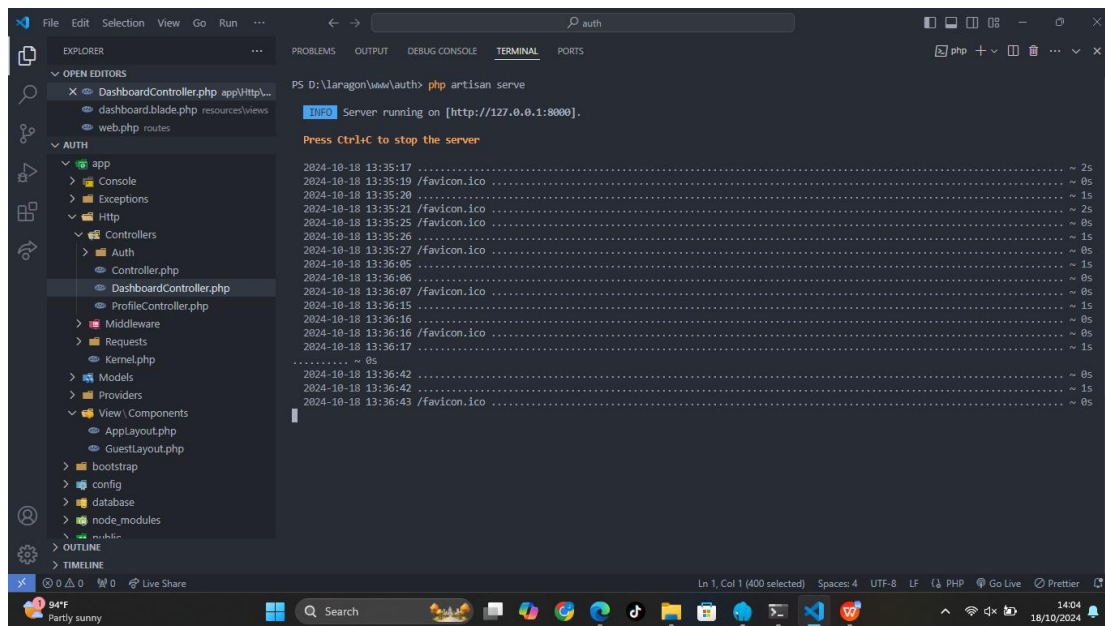
VITE v5.4.9 ready in 3101 ms

  → Local:   http://localhost:5173/
  → Network: use --host to expose
  → press h + enter to show help

LARAVEL v10.48.22 plugin v1.0.5

  → APP_URL: http://localhost
|
```

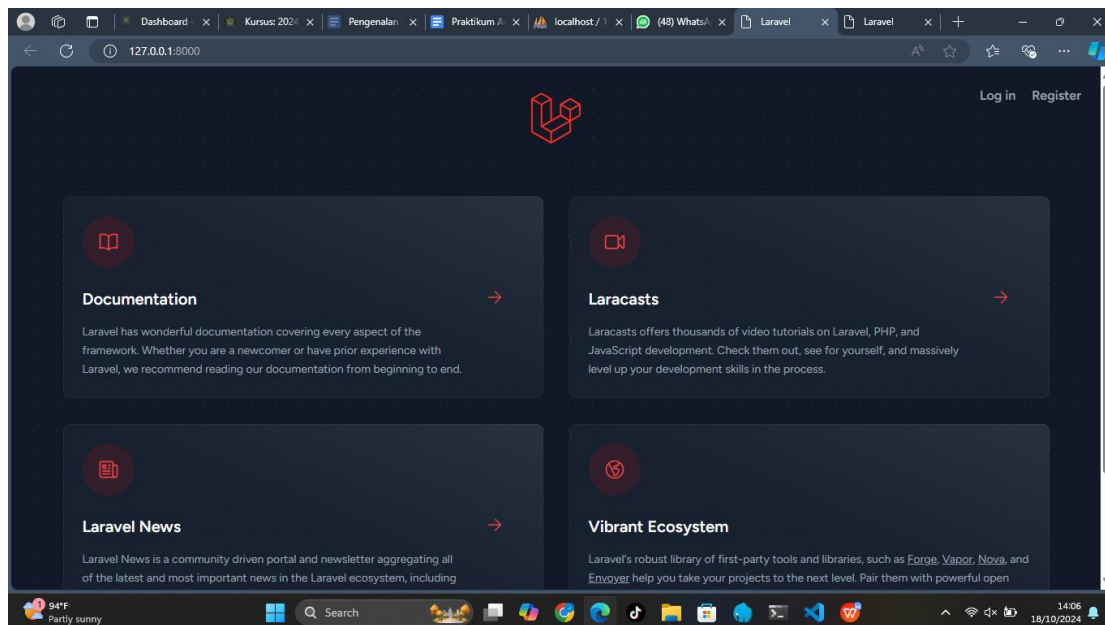

Jalankan Aplikasi Laravel



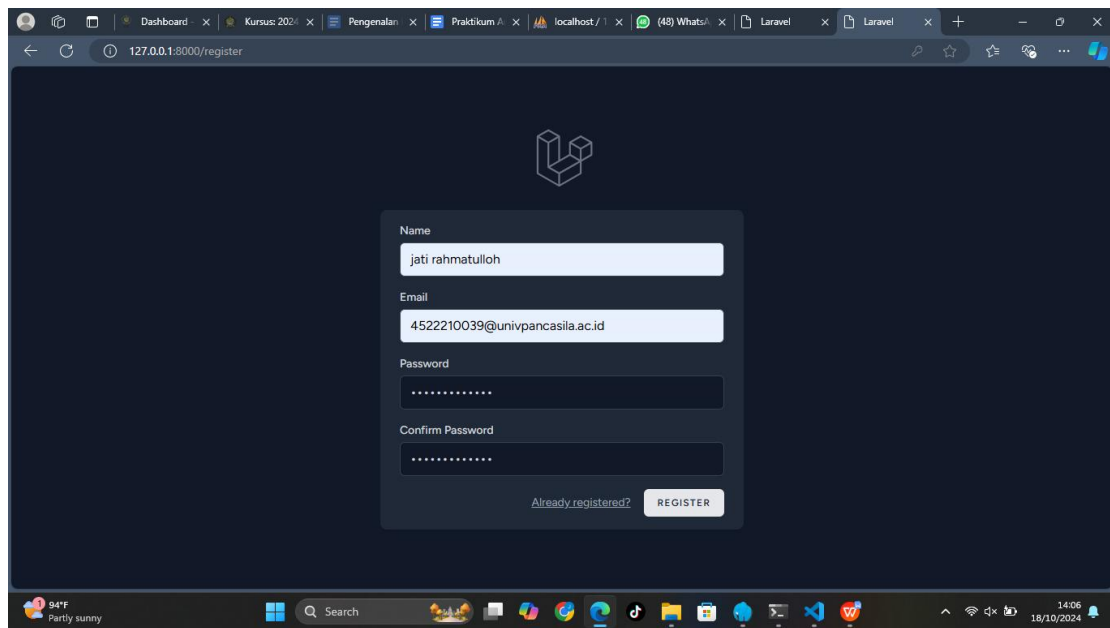
The screenshot shows the Visual Studio Code interface with a Laravel application running. The Explorer panel on the left shows the project structure, including the `app` directory with `Controllers` and `Auth` subdirectories. The `DashboardController.php` file is selected. The Terminal panel on the right shows the command `php artisan serve` being executed, and the server is running on `http://127.0.0.1:8000`. The output shows the server is running and the response for `/favicon.ico` is `200`.

2.2 Hasil Running

Tampilan utama



Tampilan register



A screenshot of a web browser displaying a registration form. The browser's address bar shows the URL "127.0.0.1:8000/register". The page has a dark blue background with a white logo consisting of three stacked cubes at the top center. The registration form is a light gray box with the following fields: "Name" (containing "jati rahmatulloh"), "Email" (containing "4522210039@univpancasila.ac.id"), "Password" (masked with dots), and "Confirm Password" (masked with dots). Below the "Confirm Password" field, there is a link "Already registered?" and a "REGISTER" button. The Windows taskbar at the bottom shows the date and time as 14:06 on 18/10/2024.

127.0.0.1:8000/register

Name
jati rahmatulloh

Email
4522210039@univpancasila.ac.id

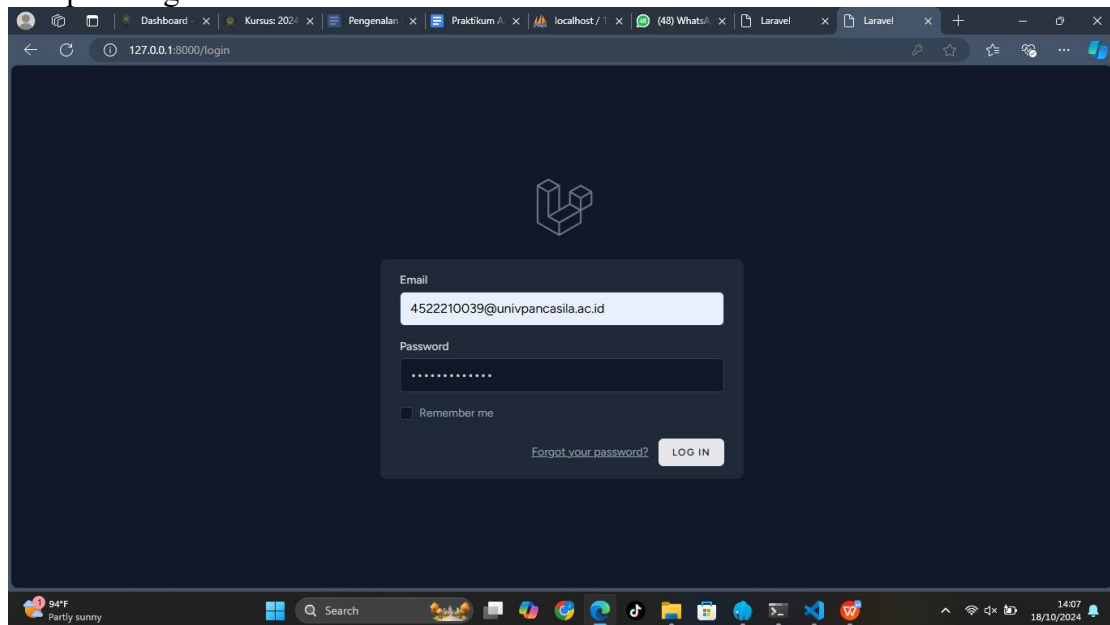
Password
.....

Confirm Password
.....

[Already registered?](#) REGISTER

14:06 18/10/2024

Tampilan login



A screenshot of a web browser displaying a login form. The browser's address bar shows the URL "127.0.0.1:8000/login". The page has a dark blue background with a white logo consisting of three stacked cubes at the top center. The login form is a light gray box with the following fields: "Email" (containing "4522210039@univpancasila.ac.id") and "Password" (masked with dots). Below the "Password" field, there is a "Remember me" checkbox and a "LOG IN" button. A link "Forgot your password?" is located to the left of the "LOG IN" button. The Windows taskbar at the bottom shows the date and time as 14:07 on 18/10/2024.

127.0.0.1:8000/login

Email
4522210039@univpancasila.ac.id

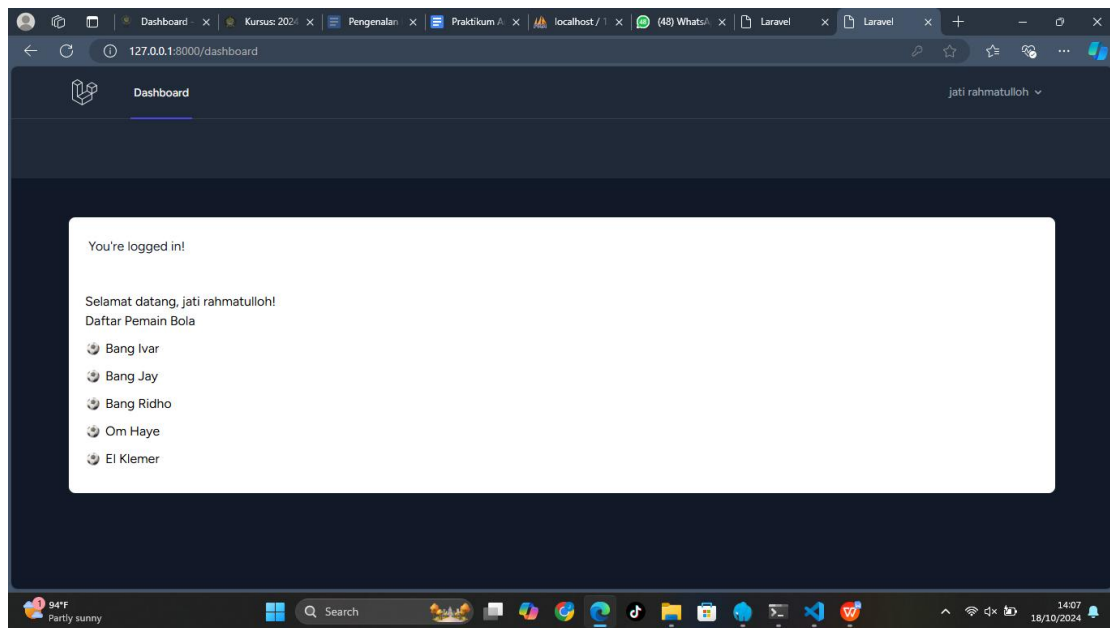
Password
.....

☐ Remember me

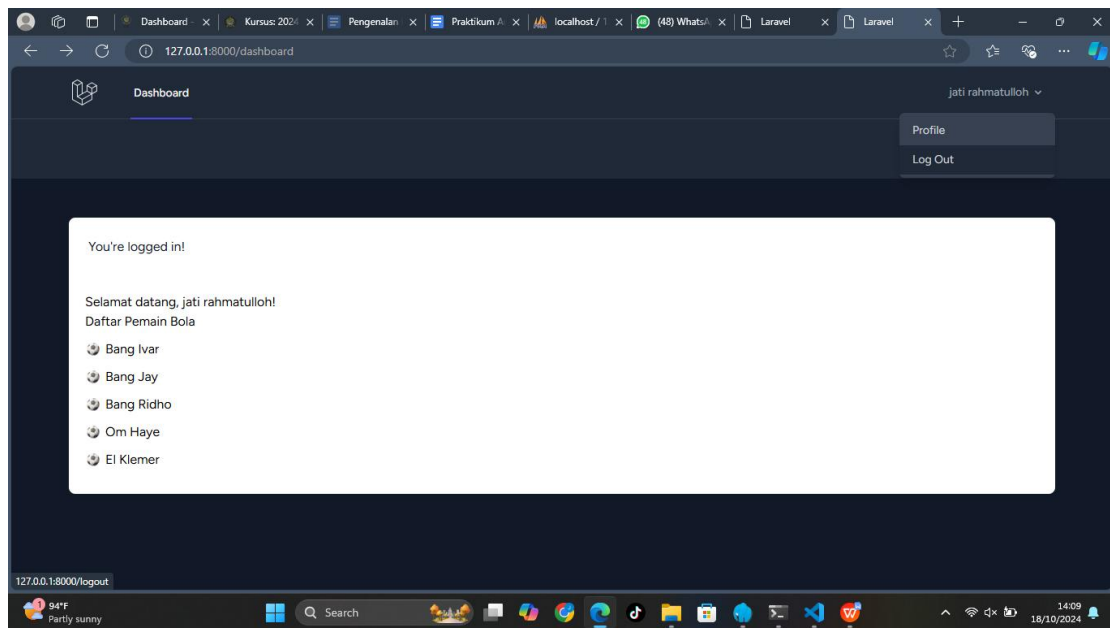
[Forgot your password?](#) LOG IN

14:07 18/10/2024

Tampilan dashboard



Tampilan logout



BAB III

PENUTUP

3.1 Kesimpulan

Berdasarkan hasil implementasi yang terlihat pada gambar-gambar yang disajikan, dapat disimpulkan bahwa praktikum autentikasi menggunakan Laravel Breeze telah berhasil dilaksanakan dengan baik. Sistem autentikasi yang dibangun mencakup fitur-fitur utama seperti halaman utama, registrasi, dan login, yang kesemuanya menampilkan desain antarmuka yang konsisten dengan tema gelap

Praktikum ini telah berhasil mencapai tujuannya dalam mengimplementasikan sistem autentikasi menggunakan Laravel Breeze. Mahasiswa/i telah memperoleh pemahaman praktis tentang penggunaan Laravel untuk membangun fitur autentikasi yang aman dan efisien