LAPORAN Jobsheet-13: How to Build API with Laravel Breeze in Laravel 11 TUGAS PEMROGRAMAN MOBILE

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JURUSAN TEKNOLOGI INFORMASI PRODI D-IV SISTEM INFORMASI BISNIS POLITEKNIK NEGERI MALANG 2024

Praktikum 1: Membangun API dengan Laravel Breeze di Laravel 11

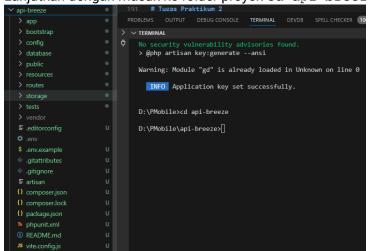
Panduan langkah demi langkah dalam membangun API sederhana dengan otentikasi menggunakan Laravel Breeze di Laravel 11.

Langkah 1:

Pertama, buat proyek Laravel baru menggunakan installer Laravel atau Composer menggunakan perintah laravel new api-breeze atau melalui Composer dengan perintah composer create-project laravel/laravel api-breeze.

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```

Lanjutkan dengan masuk ke folder proyek cd api-breeze



Langkah 2:

Selanjutnya, instal Laravel Breeze dan dependensinya menggunakan perintah composer require laravel/breeze -dev php artisan breeze:install api. Perintah ini akan menginstal Breeze dan menyiapkan scaffolding yang diperlukan untuk otentikasi API.

```
D:\Wobile\api-breeze>composer require laravel/breeze --dev

Warning: Module "gd" is already loaded in Unknown on line 0

Genot use laravel/breeze's latest version v2.2.5 as it requires php ^8.2.0 which is not satisfied by your platform.

//composer_sion 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

- Domiloading laravel/breeze (v1.29.1)

- Installing laravel/breeze (v1.29.1)

- Installing laravel/breeze (v1.29.3): Extracting archive

Generating optimized autoload files

> 1 Illuminate/Foundation/ComposerScripts::postAutoloadDump

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| Ophiloading laravel/breeze (v1.29.1): Extracting archive

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```

```
D:\PMobile\api-breeze>php artisan breeze:install api
Warning: Module "gd" is already loaded in Unknown on line 0

INFO Breeze scaffolding installed successfully.

D:\PMobile\api-breeze>
```

Langkah 3:

Konfigurasi Database dan Jalankan Migrasi dengan perbarui file .env dengan kredensial database.

```
api-breeze > Q. env

APP_NAME=Laravel
APP_ENV=local
APP_KEY=base64:ypqhtQb1IeRKgR+Ggp26FA7H/nKvzZpXodaGw/X1ebw=
APP_DEBUG=true
APP_DEBUG=true
APP_URL=http://localhost:8000
FRONTEND_URL=http://localhost:3000

BLOG_CHANNEL=stack
LOG_CHANNEL=stack
LOG_DEPRECATIONS_CHANNEL=null
LOG_LEVEL=debug

DB_CONNECTION=mysql
DB_CONNECTION=mysql
DB_DATABASE=laravel11_api
DB_DATABASE=laravel11_api
DB_DATABASE=laravel11_api
DB_DASSWORD=

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

MEMCACCHED_HOST=127.0.0.1
```

Jalankan migrasi dengan perintah berikut di terminal php artisan migrate



Langkah 4:

Buat Endpoint Autentikasi dengan menambahkan rute di routes/api.php seperti Berikut

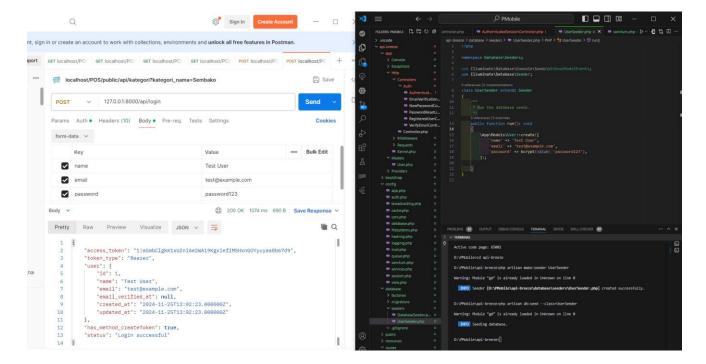
Langkah 5:

Perbarui Controller dengan sesuaikan RegisteredUserController dan AuthenticatedSessionController agar mengembalikan respons JSON.

```
ze > app > Http > Controllers > Auth > 🦇 RegisteredUserController.php > PHP Intelephense > ધ RegisteredUserController > 😚 ston
         use App\Http\Controllers\Controller;
         use Illuminate\Auth\Events\Registered;
         use Illuminate\Http\Request;
         use Illuminate\Support\Facades\Hash;
         use Illuminate\Validation\Rules;
         class RegisteredUserController extends Controller
               public function store(Request $request): JsonResponse|mixed
                   $request->validate(rules: [
   'name' => ['required', 'string', 'max:255'],
   'email' => ['required', 'string', 'email', 'max:255', 'unique::users'],
   'password' => ['required', 'confirmed', Rules\Password::defaults()],
                    $user = User::create(attributes: [
   'name' => $request->name,
                          'email' => $request->email,
                          'password' => Hash::make(value: $request->password),
                    event(args: new Registered(user: $user));
                    $token = $user->createToken(name: 'auth_token')->plainTextToken;
                    return response()->json(data: [
                     'access_token' => $token, 'token_type' => 'Bearer', 'user' => $user
D:\PMobile\api-breeze>composer require larayel/sanctum
 larning: Module "gd" is already loaded in Unknown on line 0
   atform.
composer.json has been updated
nning composer update laravel/sanctum
ading composer repositories with package information
Nothing to modify in lock file
Writing lock file
Installing dependencies from lock file (including require-dev)
Nothing to install, update or remove
Generating optimized autoload files
> Illuminate/Foundation(ComposerScripts::postAutoloadDump
> @php artisan package:discover --ansi
Warning: Module "gd" is already loaded in Unknown on line 0
  INFO Discovering packages.
  laravel/breze
laravel/sail
laravel/sanctum
laravel/tinker
nesbot/carbon
nunomaduro/collision
  nunomaduro/termwind .....spatie/laravel-ignition
 > @php artisan vendor:publish --tag=laravel-assets --ansi --force
Warning: Module "gd" is already loaded in Unknown on line 0
 INFO No publishable resources for tag [laravel-assets].
No security vulnerability advisories found. 
Using version ^3.3 for laravel/sanctum
D:\PMobile\api-breeze>php artisan vendor:publish --provider="Laravel\Sanctum\SanctumServiceProvider"
Warning: Module "gd" is already loaded in Unknown on line 0
 INFO Publishing assets.
  INFO Publishing assets.
  D:\PMobile\api-breeze>php artisan migrate
Warning: Module "gd" is already loaded in Unknown on line 0
```

Langkah 6:

Jalankan Laravel dengan menggunakan perintah php artisan serve dan lakukan tes cek API melalui Postman



Praktikum 2: Membuat Aplikasi Mobile Flutter

Langkah 1:

Persiapan Proyek Flutter dengan membuat proyek Flutter baru menggunakan perintah flutter create my flutter app

```
cd my flutter app
D:\PMobile>flutter create my_flutter_api
Creating project my_flutter_api...
Resolving dependencies in `my_flutter_api`... (2.3s)
Downloading packages...
Got dependencies in `my_flutter_api`.
Wrote 129 files.
All done!
 You can find general documentation for Flutter at: https://docs.flutter.dev/
Detailed API documentation is available at: https://api.flutter.dev/
 If you prefer video documentation, consider: https://www.youtube.com/c/flutterdev
 In order to run your application, type:
  $ cd my_flutter_api
   $ flutter run
 Your application code is in my_flutter_api\lib\main.dart.
D:\PMobile>cd my_flutter_api
D:\PMobile\my_flutter_api>
```

Tambahkan dependencies di pubspec.yaml

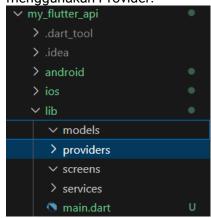
Tambahkan dependencies di flutter pub get

```
Please enable Developer Mode in your system settings. Run start ms-settings:developers to open settings. exit code 1
```

Langkah 2:

Buat Splashscreen dengan animasi dari Lottie File. Buat folder berikut untuk mengatur kode Anda dengan lebih baik:

- lib/screens/ untuk layar UI.
- lib/services/ untuk layanan HTTP dan manajemen API.
- lib/models/ untuk model data.
- lib/providers/ untuk manajemen state menggunakan Provider.



Langkah 3:

Buat Model Pengguna dengan nama file user_model.dart di folder models untuk representasi data pengguna.

Langkah 4:

Buat Layanan API dengan nama file auth_service.dart di folder services untuk mengelola login, logout, dan profil pengguna.

```
my_Autor_pay > 10 - January > 10 - J
```

Langkah 5:

Buat State Management dengan Provider (auth provider.dart) di folder lib/providers/

Langkah 6:

Buat Halaman Login (login screen.dart) di folder lib/screens/

Langkah 7:

Buat Halaman Profil (profil screen.dart) di folder lib/screens/

Langkah 8:

Mengatur Routing dan Provider di main.dart

Langkah 9:

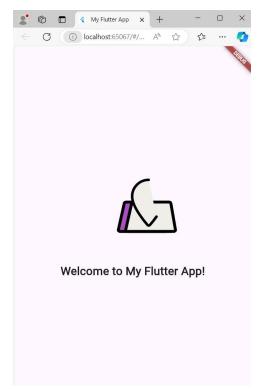
Buat file splash screen.dart di folder lib/screens/

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```

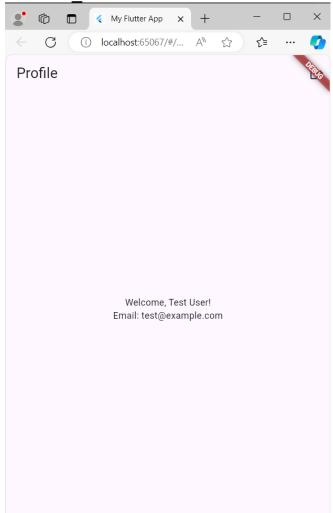
Langkah 10:

Output yang dihasilkan

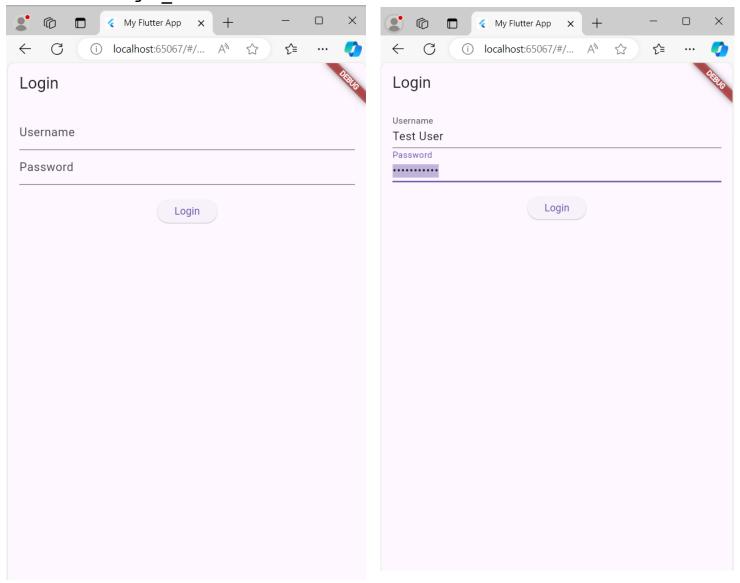
- Splash screen



- Profile screen



- Login screen



- Database

