Jobsheet API Mata Kuliah Pemrograman Mobile



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Step 1: Install Laravel

```
PS C:\laragon\www> composer create-project laravel/laravel api-breeze
Creating a "laravel/laravel" project at "./api-breeze"
Installing laravel/laravel (v11.3.3)

- Installing laravel/laravel (v11.3.3): Extracting archive
Created project in C:\laragon\www\api-breeze
> @php -r "file_exists('.env') || copy('.env.example', '.env');"
Loading composer repositories with package information
Updating dependencies
Lock file operations: 107 installs, 0 updates, 0 removals
- Locking brick/math (0.12.1)
- Locking carbonphp/carbon-doctrine-types (3.2.0)
- Locking dflydev/dot-access-data (v3.0.3)
```

Step 2: Install Laravel Breeze

```
PS C:\laragon\www> cd api-breeze
PS C:\laragon\www\api-breeze> composer require laravel/breeze --dev
./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 (v2.2.5)

Writing lock file
Installing dependencies from lock file (including require-dev)
Package operations: 1 install, 0 updates, 0 removals
  - Downloading laravel/breeze (v2.2.5)
  - Installing laravel/breeze (v2.2.5): Extracting archive
Generating optimized autoload files
> Illuminate\Foundation\ComposerScripts::postAutoloadDump
> @php artisan package:discover --ansi
```

Step 3: Configure the Database and Run Migrations

```
DB_CONNECTION=mysql
DB_HOST=127.0.0.1
DB_PORT=3306
DB_DATABASE=laravel11_api
DB_USERNAME=root
DB_PASSWORD=
```

Step 4: Create Authentication Endpoints

Step 5: Update Controllers

```
RegisteredUserController.php X • AuthenticatedSessionController.php
api-breeze > app > Http > Controllers > Auth > 🦬 RegisteredUserController.php > ધ RegisteredUserController
       namespace App\Http\Controllers\Auth;
       use App\Models\User;
      use Illuminate\Auth\Events\Registered;
      use Illuminate\Http\Request;
       use Illuminate\Support\Facades\Hash;
      use Illuminate\Validation\Rules;
      use App\Http\Controllers\Controller;
       class RegisteredUserController extends Controller
           public function store(Request $request)
                $request->validate([
                    'name' => ['required', 'string', 'max:255'],
'email' => ['required', 'string', 'email', 'max:255', 'unique:users'],
                     'password' => ['required', 'confirmed', Rules\Password::defaults()],
                $user = User::create([
                    'name' => $request->name,
'email' => $request->email,
                     'password' => Hash::make($request->password),
                event(new Registered($user));
                $token = $user->createToken('auth_token')->plainTextToken;
                return response()->json([
                    'access_token' => $token,
                    'user' => $user
```

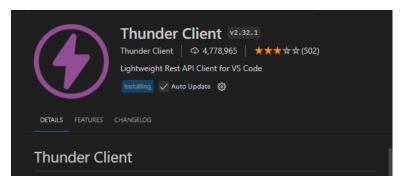
```
AuthenticatedSessionController.php X B: Extension: Thunk
                  RegisteredUserController.php
api-breeze > app > Http > Controllers > Auth > ♠ AuthenticatedSessionController.php > ...
       namespace App\Http\Controllers\Auth;
       use Illuminate\Http\Request;
       use Illuminate\Support\Facades\Auth;
       use App\Http\Controllers\Controller;
            public function store(Request $request)
                 $request->validate([
                      'email' => ['required', 'string', 'email'],
'password' => ['required', 'string'],
                 if (!Auth::attempt($request->only('email', 'password'))) {
    return response()->json(['message' => 'Invalid login credentials'], 401);
                 $user = Auth::user();
                 $token = $user->createToken('auth_token')->plainTextToken;
                 return response()->json([
                      'access_token' => $token,
                      'token_type' => 'Bearer',
                      'user' => $user,
'status' => 'Login successful',
            public function destroy(Request $request)
                 $request->user()->currentAccessToken()->delete();
                 return response()->json(['message' => 'Logout successful']);
```

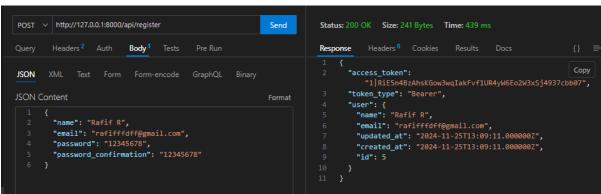
```
PS C:\laragon\www\api-breeze> php artisan serve
forking is not supported on this platform

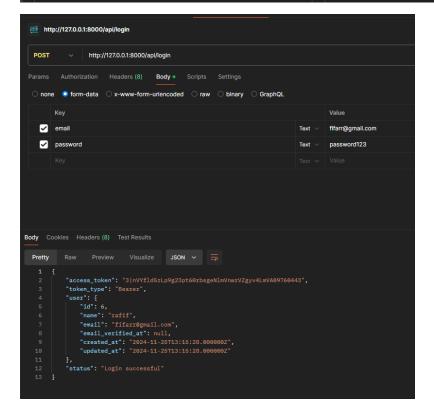
INFO Server running on [http://127.0.0.1:8000].

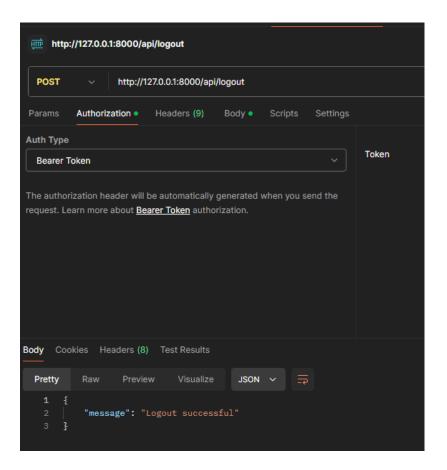
Press Ctrl+C to stop the server
```

Step 6: Check following API









Pembuatan Aplikasi Mobile Flutter,

Langkah 1: Persiapan Proyek Flutter

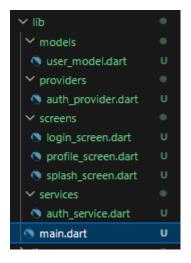
```
PS C:\Users\Rafif\Documents\Kuliah\SEMESTER 5\PEM MOBILE> flutter create my_flutter_app
Creating project my_flutter_app...
Resolving dependencies in `my_flutter_app`... (3.2s)
Downloading packages...
Got dependencies in `my_flutter_app`.
Wrote 129 files.

All done!
You can find general documentation for Flutter at: https://docs.flutter.dev/
Detailed API documentation is available at: https://api.flutter.dev/
```

```
10 dependencies:
11 | flutter:
12 | sdk: flutter
13 | http: ^0.13.3
14 | shared_preferences: ^2.0.6
15 | provider: ^6.0.0
16 | flutter_secure_storage: ^5.0.2
```

```
PS C:\Users\Rafif\Documents\Kuliah\SEMESTER 5\PEM MOBILE\my_flutter_app> flutter pub get
Resolving dependencies... (1.0s)
Downloading packages...
  async 2.11.0 (2.12.0 available)
  boolean_selector 2.1.1 (2.1.2 available)
  characters 1.3.0 (1.3.1 available)
  clock 1.1.1 (1.1.2 available)
  collection 1.18.0 (1.19.1 available)
  fake_async 1.3.1 (1.3.2 available)
  flutter_lints 4.0.0 (5.0.0 available)
  flutter_secure_storage 5.1.2 (9.2.2 available)
  flutter_secure_storage_macos 1.1.2 (3.1.2 available)
  flutter_secure_storage_windows 1.1.3 (3.1.2 available)
  http 0.13.6 (1.2.2 available)
 http_parser 4.0.2 (4.1.1 available)
  js 0.6.7 (0.7.1 available)
  leak_tracker 10.0.5 (10.0.8 available)
  leak_tracker_flutter_testing 3.0.5 (3.0.9 available)
  lints 4.0.0 (5.1.0 available)
```

Langkah 2: Mengatur Struktur Proyek



Langkah 3: Membuat Model Pengguna

Langkah 4: Membuat Layanan API

```
lib > services > 🤏 auth_service.dart > 😘 AuthService > 😭 getProfile
          import 'dart:convert';
import 'package:http/http.dart' as http;
import 'package:flutter_secure_storage/flutter_secure_storage.dart';
import '../models/user_model.dart';
          class AuthService {
             final String apidr1 = 'http://your-laravel-api-url.com/api';
final storage = FlutterSecureStorage();
Future<br/>chool> login(String email, String password) async (
                final response - await http.post(
                tri.parse('$apitrl/login'),
headers: ('Content-Type': 'application/json'),
body: jsonEncode(('email': email, 'password': password')),
                if (response.statusCode == 200) (
                final data = jsonDecode(response.body);
await storage.write(key: 'token', value: data['token']);
                ) else (
return false;
             Future cliser?> getProfile() async {
  final token = await storage.read(key: 'token');
               final response - await http.get(
               Uri.parse('$apiUrl/profile'),
headers: (
    'Content-Type': 'application/json',
    'Authorization': 'Bearer $token',
                );
if (response.statusCode == 200) (
                 final data = jsonDecode(response.body);
                    return User.from]son(data['user']);
 38
             FutureFuturecvoid> logout() async (
    await storage.delete(key: 'token');
```

Langkah 5: Menyusun State Management dengan Provider

Langkah 6: Membuat Halaman Login

Langkah 7: Membuat Halaman Profil

Langkah 8: Mengatur Routing dan Provider

Langkah 9: Menyiapkan Splash Screen