

Application Programming Interface

Pertemuan 13

Gelar Aditya Pratama, S.T., M.Kom. gelar@stmik-amikbandung.ac.id







laravel api & mysql – middleware jwt & login



- Jalankan command composer require php-open-source-saver/jwt-auth
- Nanti akan ada package baru tertulis di composer.json



- Jalankan command
 php artisan vendor:publish --provider="PHPOpenSourceSaver\JWTAuth\Providers\LaravelServiceProvider"
- Nanti akan ada file baru config/jwt.php



- Jalankan command php artisan jwt:secret
- Nanti akan ada baris config baru untuk jwt

```
Composer.json M

jwt.php U

iii .env

Jut_serv

Jut_secret=X1V4M06JnbSIVWzWFKGSQJwdsr1PMpzgrAZwD1hm8c3bfGH3bAzXtnypukRZUV2e

Jut_secret=X1V4M06JnbSIVWzWFKGSQJwdsAzwD1hm8c3bfGH3bAzXtnypukRZUV2e

Jut_
```



Edit file config/auth.php

```
← composer.json M
                             ₩ .env
                                          auth.php M X
config > @ auth.php
  3 ∨ return·[
     / 'guards' => [
  39 \ 'web' => [
     'driver' => 'session',
     'provider' => 'users',
```



Edit file app/Model/User.php

'password', 'remember token',

```
← composer.json M
                 iwt.php A
                              ₩ .env
                                            auth.php M
                                                          User.php M X
                                                                              ← composer.json M
                                                                                                iwt.php A
                                                                                                              til .env
                                                                                                                            auth.php M
                                                                                                                                          User.php M X
namespace App\Models;
                                                                                42 v protected $casts = [
                                                                                    'email verified at' => 'datetime',
      use Illuminate\Contracts\Auth\MustVerifyEmail;
      use Illuminate\Database\Eloquent\Factories\HasFactory;
      use Illuminate\Foundation\Auth\User as Authenticatable;
                                                                                        public function getJWTIdentifier()
      use Illuminate\Notifications\Notifiable;
      use PHPOpenSourceSaver\JWTAuth\Contracts\JWTSubject;
                                                                                    return $this->getKey();
      use Laravel\Sanctum\HasApiTokens;
      class User extends Authenticatable implements JWTSubject
                                                                                        public function getJWTCustomClaims()
         use HasApiTokens, HasFactory, Notifiable;
         protected $fillable = [
             'name',
             'email',
             'password',
         protected $hidden = [
```



- Jalankan command
 php artisan make:controller Api/AuthController
- Edit file app/Http/Controllers/Api/AuthController.php



```
AuthController.php U X
app > Http > Controllers > Api >  AuthController.php > {} App\Http\Controllers\Api
       namespace App\Http\Controllers\Api;
       use App\Http\Controllers\Controller;
       use Illuminate\Http\Request;
       use App\Models\User;
       use Illuminate\Support\Facades\Auth;
       use Illuminate\Support\Facades\Hash;
       class AuthController extends Controller
       public function _ construct()
        $this->middleware('auth:api', ['except' => ['login','register']]);
```

```
AuthController.php U X
app > Http > Controllers > Api >  AuthController.php > {} App\Http\Controllers\Api
     public function login(Request $request)
     $request->validate([
     'email' => 'required|string|email',
     'password' => 'required|string',
     ....]);
     $credentials = $request->only('email', 'password');
     $token = Auth::attempt($credentials);
     if (!$token) {
     return response()->json([
     'status' => 'error',
     'message' => 'Unauthorized',
     ], 401);
     $user = Auth::user();
     return response()->json([
     'status' => 'success',
     'data' => $user,
     'token' => $token,
     'type' => 'bearer',
     ....];
```



```
AuthController.php U X
app > Http > Controllers > Api > 4 AuthController.php > { } App\Http\Controllers\Api
      public function register(Request $request){
      $request->validate([
      'name' => 'required|string|max:255',
      'email' => 'required|string|email|max:255|unique:users',
      'password' => 'required|string|min:6',
      ....]);
      $user = User::create([
      'name' => $request->name,
      'email' => $request->email,
      'password' => Hash::make($request->password),
      ....]);
      $token = Auth::login($user);
      ····return response()->json([
      'status' => 'success',
      'message' => 'User created successfully',
      'data' => $user,
      'auth' => [
      'token' => $token,
      'type' => 'bearer',
      ....]);
```



```
AuthController.php U X
app > Http > Controllers > Api > @ AuthController.php > {} App\Http\Controllers\Api
      public function logout()
      Auth::logout();
      return response()->json([
      'status' => 'success',
      'message' => 'Successfully logged out',
      ····]);
      public function refresh()
      return response()->json([
      'message' => 'Token refresh',
      'data' => Auth::user(),
      'token' => Auth::refresh(),
      'type' => 'bearer',
      ····]);
```





Edit file app/Http/Middleware/Authenticate.php

```
AuthController.php A
                       Authenticate.php M X
app > Http > Middleware > @ Authenticate.php > ધ Authenticate
       namespace App\Http\Middleware;
       use Illuminate\Auth\Middleware\Authenticate as Middleware;
       class Authenticate extends Middleware
           * Get the path the user should be redirected to when they are not authenticated.
        * @return string|null
        // protected function redirectTo($request)
        // if (! $request->expectsJson()) {
```



• Edit file app/Exceptions/Handler.php



Edit file routes/api.php

```
AuthController.php A
                       Authenticate.php M
                                              Handler.php M
                                                                 api.php M X
routes > api.php > 🕅 #Function#92deebf8
       use Illuminate\Http\Request;
       use Illuminate\Support\Facades\Route;
       use App\Http\Controllers\Api\AuthController;
       use App\Http\Controllers\Api\ProductController;
  8 > /** ...
       Route::middleware('auth:sanctum')->get('/user', function (Request $request) {
       return $request->user();
       });
       Route::controller(AuthController::class)->group(function () {
           Route::post('login', 'login');
           Route::post('register', 'register');
           Route::post('logout', 'logout');
           Route::post('refresh', 'refresh');
       });
```



Edit file routes/api.php

```
AuthController.php A
                      Authenticate.php M
                                           Handler.php M
                                                             api.php M X
routes > @ api.php > 🕅 #Function#92deebf8
      // Route::apiResource('/product', App\Http\Controllers\Api\ProductController::class);
      Route::controller(ProductController::class)->group(function () {
      Route::get('product', 'index');
      Route::get('product/{id}', 'show');
      Route::post('product', 'store');
      Route::put('product/{id}', 'update');
      Route::delete('product/{id}', 'destroy');
      });
 40
      Route::fallback(function(){
       return response()->json(
       'status' => false,
       'message' => 'Page Not Found'
      . . . . . . . . ],
      404);
 46 $
       });
```



• Edit file app/Http/Controllers/Api/ProductController.php

```
ProductController.php M X
app > Http > Controllers > Api > ◎ ProductController.php > ધ ProductController > ♦ index
       namespace App\Http\Controllers\Api;
       use App\Http\Controllers\Controller;
       use Illuminate\Http\Request;
       use App\Models\Product;
       use App\Http\Resources\ProductResource;
       class ProductController extends Controller
         public function construct()
               $this->middleware('auth:api', ['except' => ['index','show']]);
```



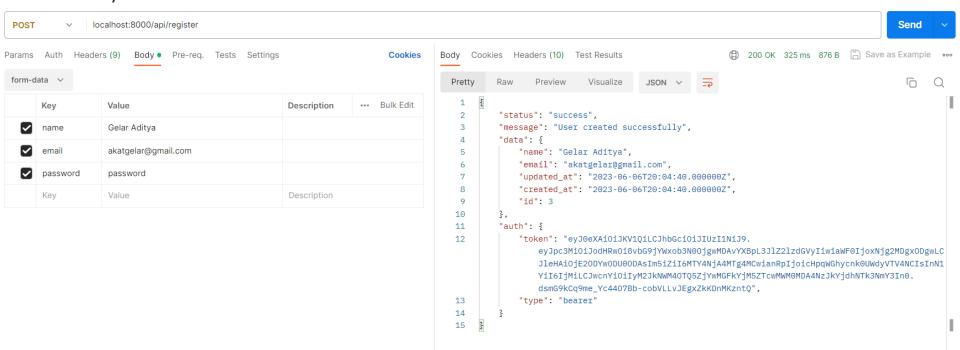
Gunakan method POST Ketikan url "localhost:8000/api/register"

Isi body -> form-data

name : Nama user

email : emailuser@gmail.com

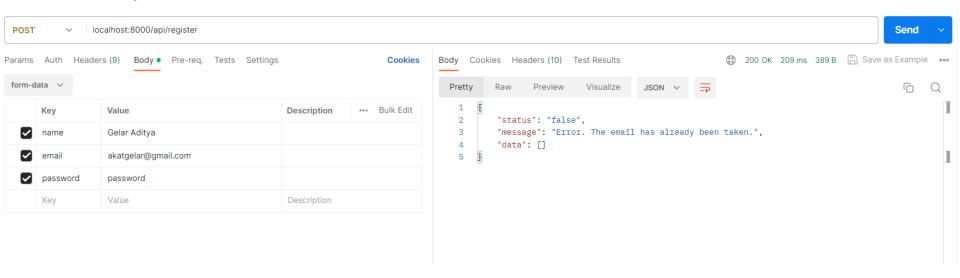
password: password





Gunakan method POST Ketikan url "localhost:8000/api/register"

Error Response

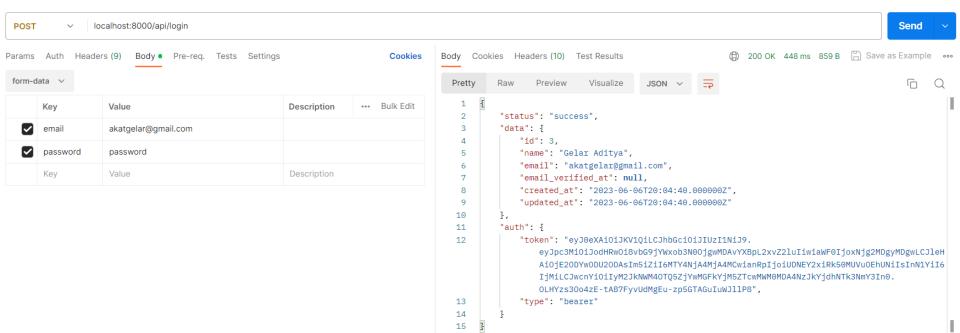




Gunakan method POST Ketikan url "localhost:8000/api/login"

Isi body -> form-data

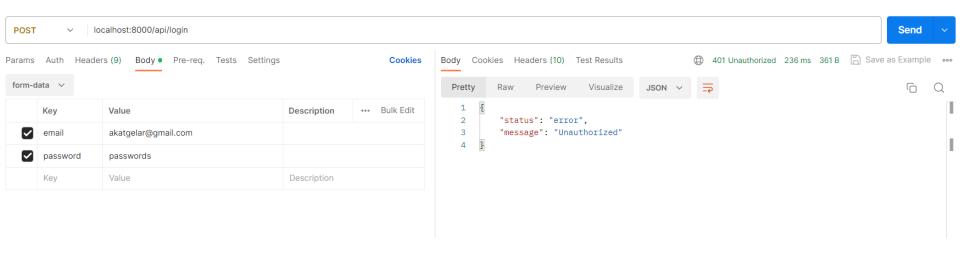
email : <u>emailuser@gmail.com</u> password : password





Gunakan method POST Ketikan url "localhost:8000/api/login"

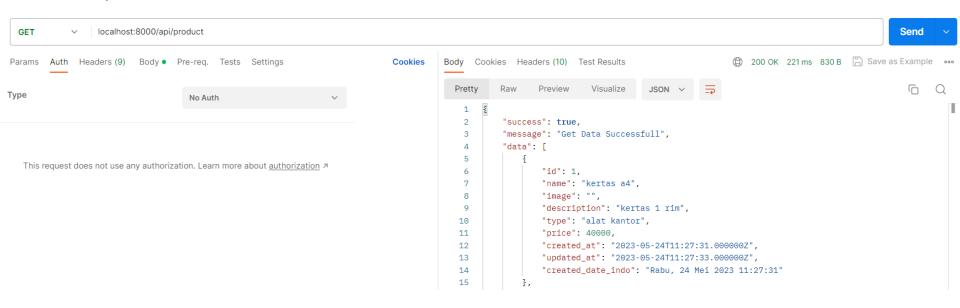
Error Response





Gunakan method GET Ketikan url "localhost:8000/api/product"

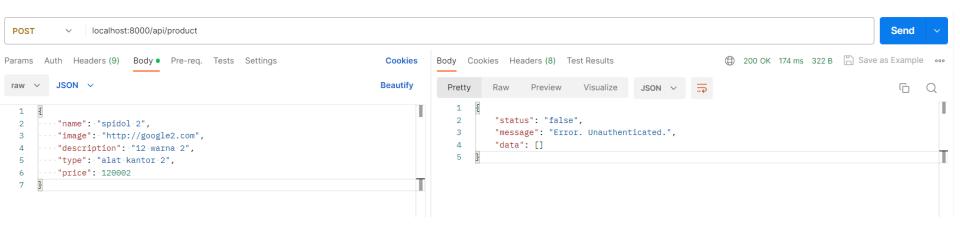
Tidak perlu token





Gunakan method POST Ketikan url "localhost:8000/api/product"

Error Response, karena perlu token





Gunakan method POST Ketikan url "localhost:8000/api/product"

Pada Auth -> type
Pilih Bearer Token
Paste token yang didapat dari login

