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SIB 2A

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Jobsheet 10 PWL

Praktikum 1: Membuat RESTful API Register

1.

The Postman app

Download the app to get started with the Postman API Platform.

■ Windows 64-bit

2.

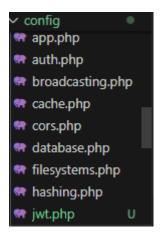
```
PS C:\laragon\www\PWL_25\PWL_POS> composer require tymon/jwt-auth:2.1.1
./composer.json has been updated
Running composer update tymon/jwt-auth
Loading composer repositories with package information
Updating dependencies
Lock file operations: 4 installs, 0 updates, 0 removals
- Locking lcobucci/clock (2.3.0)
```

3.

```
PS C:\laragon\www\PWL_25\PWL_POS> php artisan vendor:publish --provider="Tymon\JWTAuth\Providers\LaravelServiceProvider"

INFO Publishing assets.

Copying file [C:\laragon\www\PWL_25\PWL_POS\vendor\tymon\jwt-auth\config\config.php] to [C:\laragon\www\PWL_25\PWL_POS\config\jwt.php] ..... DONE
```



```
PS C:\laragon\www\PWL_25\PWL_POS> php artisan jwt:secret
jwt-auth secret [XtmQtskNAKTV7NYqLwmEH4YthgumQwDd0lB2VFTJOeLrlUB38qANeJkky82pEh8g] set successfully.

PWL_POS > .env

54    VITE_APP_NAME="${APP_NAME}"

55    VITE_PUSHER_APP_KEY="${PUSHER_APP_KEY}"

56    VITE_PUSHER_HOST="${PUSHER_HOST}"

57    VITE_PUSHER_PORT="${PUSHER_PORT}"

58    VITE_PUSHER_SCHEME="${PUSHER_SCHEME}"

59    VITE_PUSHER_APP_CLUSTER="${PUSHER_APP_CLUSTER}"

60

61    JWT_SECRET=XtmQtskNAKTV7NYqLwmEH4YthgumQwDd0lB2VFTJOeLrlUB38qANeJkky82pEh8g

62
```

6.

38

'guards' => []

'web' => [

'driver' => 'session',

'provider' => 'users',

42

43

'api' => [

'driver' => 'jwt',

'provider' => 'users',

46

47

48

],

```
PWL_POS > app > Models > 🟶 UserModel.php > PHP Intelephense > 😭 UserModel
      <?php
      namespace App\Models;
  5
      use Illuminate\Database\Eloquent\Casts\Attribute;
      use Illuminate\Database\Eloquent\Model;
      use Tymon\JWTAuth\Contracts\JWTSubject;
      use Illuminate\Database\Eloquent\Relations\BelongsTo;
      use Illuminate\Foundation\Auth\User as Authenticatable;
      class UserModel extends Authenticatable implements JWTSubject
          public function getJWTIdentifier() {
              return $this->getKey();
          public function getJWTCustomClaims() {
              return [];
          protected $table = 'm_user';
          protected $primaryKey = 'user id';
```

```
PS C:\laragon\www\PWL_25\PWL_POS> php artisan make:controller Api/RegisterController

INFO Controller [C:\laragon\www\PWL_25\PWL_POS\app\Http\Controllers\Api\RegisterController.php] created successfully.
```

```
PWL_POS > app > Http > Controllers > Api > 🦬 RegisterController.php > PHP Intelephense > ધ Register
      <?php
       namespace App\Http\Controllers\Api;
      use App\Http\Controllers\Controller;
      use Illuminate\Http\Request;
      use App\Models\UserModel;
      use Illuminate\Support\Facades\Validator;
       class RegisterController extends Controller
 10
           public function __invoke(Request $request)
               //set validation
               $validator = Validator::make($request->all(), [
                   'username' => 'required',
                   'nama' => 'required',
                    'password' => 'required|min:5|confirmed',
                   'level id' => 'required',
                   'image' => 'required|image|mimes:jpeg,png,jpg,gif|max:2048',
               1);
               //if validation fails
               if($validator->fails()){
                   return response()->json($validator->errors(), 422);
               //create user
               $user = UserModel::create([
                   'username' => $request->username,
                   'nama' => $request->nama,
                   'password' => bcrypt($request->password),
                   'level id' => $request->level id,
```

11.

12.

```
localhost/PWL_25/PWL_POS/public/api/register
POST
                                                                                                   Send
 1
 2
         "username": [
 3
             "The username field is required."
 4
         ],
 5
         "nama": [
             "The nama field is required."
 6
 7
         ],
 8
         "password": [
             "The password field is required."
 9
10
         ],
         "level_id": [
11
             "The level id field is required."
12
13
         ],
14
         "image": [
             "The image field is required."
15
16
```

POST ✓ localhost/PWL_25/PWL_POS/public/api/register Send Authorization Headers (8) Cookies Params Body • Scripts Settings ○ none ○ form-data ○ x-www-form-urlencoded ○ raw ○ binary ○ GraphQL Description ••• Bulk Edit Key Value username Text v penggunasatu nama Text ∨ Pengguna1 Text v 12345 password password_confirmation Text v 12345 ✓ level_id Text ∨ 2

```
1
 2
         "success": true,
         "user": {
 3
             "username": "penggunasatu",
 4
             "nama": "Pengguna1",
 5
             "level_id": "2",
 6
             "updated at": "2025-07-10T04:54:12.000000Z",
 7
             "created_at": "2025-07-10T04:54:12.000000Z",
 8
             "user id": 30
 9
10
11
```

Praktikum 2: Membuat RESTful API Login

1.

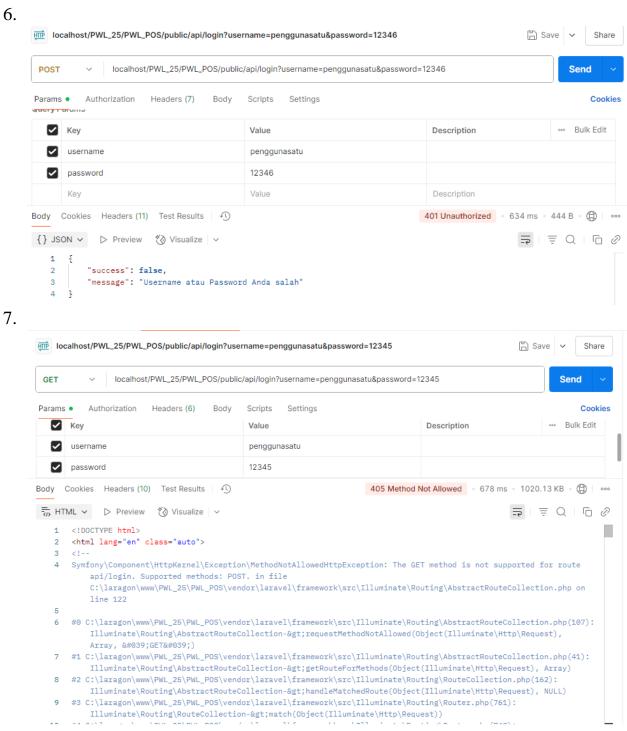
PS C:\laragon\www\PWL_25\PWL_POS> php artisan make:controller Api/LoginController

INFO Controller [C:\laragon\www\PWL_25\PWL_POS\app\Http\Controllers\Api\LoginController.php] created successfully.

```
PWL_POS > app > Http > Controllers > Api > ♥ LoginController.php > ...
      namespace App\Http\Controllers\Api;
      use App\Http\Controllers\Controller;
      use Illuminate\Http\Request;
      use Illuminate\Support\Facades\Validator;
      class LoginController extends Controller
           public function __invoke(Request $request){
               $validator = Validator::make($request->all(), [
                   'password' => 'required'
               ]);
               if ($validator->fails()) {
                   return response()->json($validator->errors(), 422);
               $credentials = $request->only('username', 'password');
               if (!$token = auth()->guard('api')->attempt($credentials)) {
                   return response()->json([
                       'message' => 'Username atau Password Anda salah'
                   ], 401);
```

3. Route::post('/register', App\Http\Controllers\Api\RegisterController::class)->name('register'); Route::post('/login', App\Http\Controllers\Api\LoginController::class)->name('login'); Route::middleware('auth:api')->get('/user', function (Request \$request) { 20 return \$request->user(); 4. □ Save ∨ Iocalhost/PWL_25/PWL_POS/public/api/login Share V localhost/PWL_25/PWL_POS/public/api/login POST Send Authorization Headers (7) Body Scripts Settings Cookies Params **Query Params** Value Description *** Bulk Edit Key Key Value Description Body Cookies Headers (11) Test Results 4 422 Unprocessable Content 335 ms 485 B 6 = Q 1 G 0 {} JSON V Preview 🖔 Visualize V 2 "username": [3 "The username field is required." 4 "password": ["The password field is required." 5. localhost/PWL_25/PWL_POS/public/api/login?username=penggunasatu&password=12345 🖺 Save 🗸 Share V localhost/PWL_25/PWL_POS/public/api/login?username=penggunasatu&password=12345 Send Params • Authorization Headers (7) Body Scripts Cookies ✓ Key Value ••• Bulk Edit Description username penggunasatu password 12345 Value Description Body Cookies Headers (11) Test Results | 200 OK = 1.56 s = 932 B = 🖨 | ••• {} JSON ✓ ▷ Preview 🍪 Visualize ✓ 5 1 7 Q 1 6 0 1 "success": true, "user": } 3 "user_id": 30, 4 "level_id": 2, 5 6 "username": "penggunasatu", "nama": "Pengguna1", 8 "user_profile_picture": null, "created_at": "2025-07-10T04:54:12.0000000Z", "updated_at": "2025-07-10T04:54:12.000000Z" 10 11 "token": "eyJ0eXAiOiJKV1OiLCJhbGciOiJIUzI1NiJ9. 12 eyJpc3MiOiJodHRwOi8vbG9jYWxob3N0L1BXTF8yNS9QV0xfUE9TL3B1YmxpYy9hcGkvbG9naW4iLCJpYXQi0jE3NTIxMjM30DksImV4cCI

6MTc1MjEyNzM40SwibmJmIjoxNzUyMTIzNzg5LCJqdGki0iI3d1Vxb1pXYUlNNVJweFdEIiwic3ViIjoiMzAilCJwcnYi0iI9MWRm0DgzNG



Pesan error 405 Method Not Allowed menunjukkan bahwa endpoint /api/login tidak menerima permintaan dengan metode GET karena rute tersebut hanya diatur untuk menangani permintaan POST.

Praktikum 3: Membuat RESTful API Logout

1.

```
JWT_SECRET=XtmQtskNAKTV7NYqLwmEH4YthgumQWDd01B2VFTJOeLr1UB38qANeJkky82pEh8g
JWT_SHOW_BLACKLIST_EXCEPTION=true
```

2.

```
PS C:\laragon\www\PWL_25\PWL_POS> php artisan make:controller Api/LogoutController

INFO Controller [C:\laragon\www\PWL_25\PWL_POS\app\Http\Controllers\Api\LogoutController.php] created successfully.
```

3.

```
PWL_POS > app > Http > Controllers > Api > 🙌 LogoutController.php > ...
      <?php
      namespace App\Http\Controllers\Api;
      use App\Http\Controllers\Controller;
      use Illuminate\Http\Request;
      use Tymon\JWTAuth\Facades\JWTAuth;
      use Tymon\JWTAuth\Exceptions\JWTAuthException;
      use Tymon\JWTAuth\Exceptions\TokenExpiredExceptioN;
  9
      use Tymon\JWTAuth\Exceptions\TokenInvalidException;
      class LogoutController extends Controller
 12
           public function __invoke(Request $request)
               // remove token
               $removeToken = JWTAuth::invalidate(JWTAuth::getToken());
               if ($removeToken) {
                   // return response JSON
                   return response()->json([
 21
                       'success' => true,
                       'message' => 'Logout Berhasil!',
                   ]);
```

```
Route::post('/register', App\Http\Controllers\Api\RegisterController::class)->name('register');

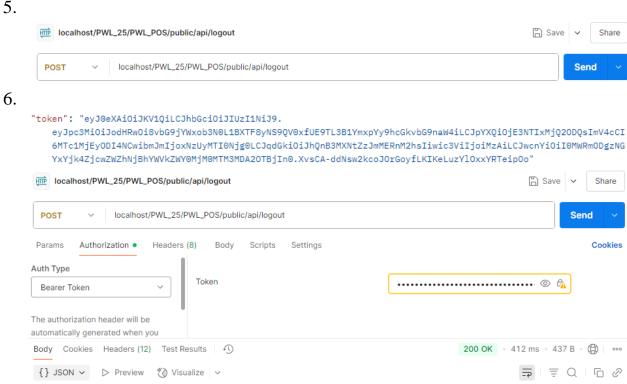
Route::post('/login', App\Http\Controllers\Api\LoginController::class)->name('login');

Route::post('/logout', App\Http\Controllers\Api\LogoutController::class)->name('logout');

Route::middleware('auth:api')->get('/user', function (Request $request) {

return $request->user();

});
```



"success": true,
"message": "Logout Berhasil!"

Praktikum 4: Implementasi CRUD dalam RESTful API

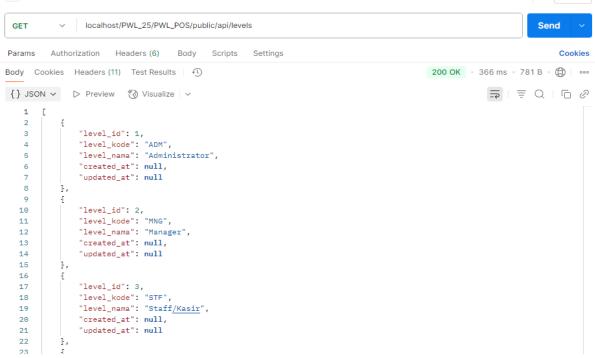
1.

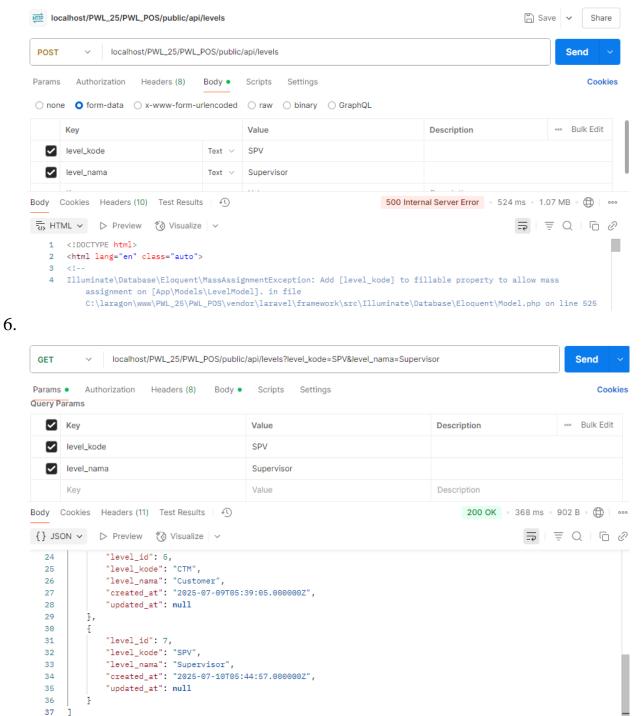
```
PS C:\laragon\www\PWL_25\PWL_POS> php artisan make:controller Api/LevelController

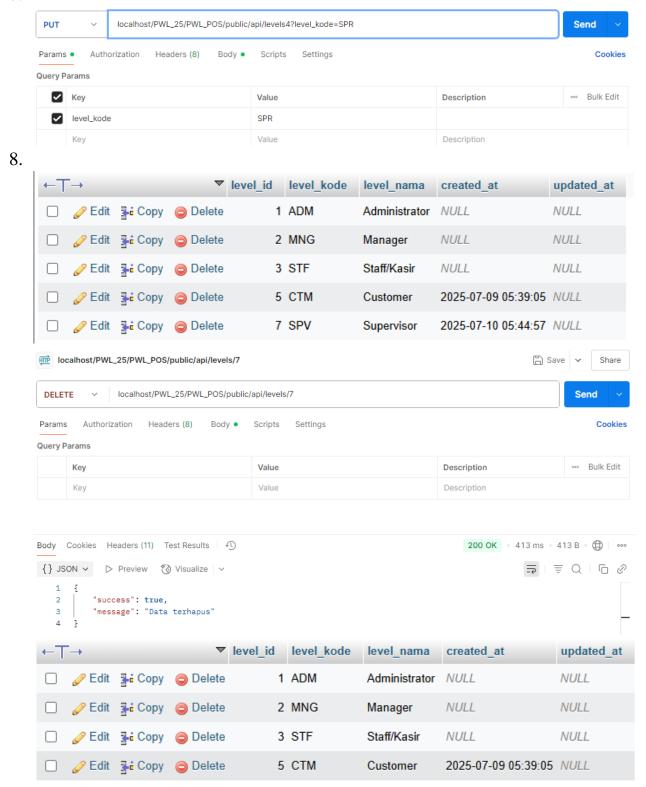
INFO Controller [C:\laragon\www\PWL_25\PWL_POS\app\Http\Controllers\Api\LevelController.php] created successfully.
```

```
PWL_POS > app > Http > Controllers > Api > 🦛 LevelController.php > PHP Intelephense > 😭 LevelController
      namespace App\Http\Controllers\Api;
      use App\Http\Controllers\Controller;
      use Illuminate\Http\Request;
      use App\Models\LevelModel;
      class LevelController extends Controller
          public function index(){
              return LevelModel::all();
          public function store(Request $request){
              $level = LevelModel::create($request->all());
              return response()->json($level, 201);
          public function show(LevelModel $level){
               return LevelModel::find($level);
          public function update(Request $request, LevelModel $level){
              $level->update($request->all());
              return LevelModel::find($level);
          public function destroy(LevelModel $level){
              $level->delete();
               return response()->json([
                   'message' => 'Data terhapus',
```

```
PWL_POS > routes > 💝 api.php > ...
        use App\Http\Controllers\Api\RegisterController;
        use Illuminate\Http\Request;
        use Illuminate\Support\Facades\Route;
        use App\Http\Controllers\Api\LevelController;
   7
           be assigned to the "api" middleware group. Make something great!
        Route::post('/register', App\Http\Controllers\Api\RegisterController::class)->name('register');
        Route::post('/login', App\Http\Controllers\Api\LoginController::class)->name('login');
        Route::post('/logout', App\Http\Controllers\Api\LogoutController::class)->name('logout');
        Route::middleware('auth:api')->get('/user', function (Request $request) {
              return $request->user();
         //route api level
        Route::get('/levels', [LevelController::class, 'index']);
Route::post('/levels', [LevelController::class, 'store']);
Route::get('/levels/{level}', [LevelController::class, 'show']);
Route::put('/levels/{level}', [LevelController::class, 'update']);
Route::delete('/levels/{level}', [LevelController::class, 'destroy']);
 Incalhost/PWL_25/PWL_POS/public/api/levels
                                                                                                                 □ Save ∨
                                                                                                                                Share
            localhost/PWL_25/PWL_POS/public/api/levels
  GET
                                                                                                                           Send
```







Tugas

1. M user

```
PS C:\laragon\www\PWL_25\PWL_POS> php artisan make:controller Api/UserController
 INFO Controller [C:\laragon\www\PWL_25\PWL_POS\app\Http\Controllers\Api\UserController.php] created successfully.
PWL_POS > app > Http > Controllers > Api > 😁 UserController.php > PHP Intelephense > 😭 UserController
       namespace App\Http\Controllers\Api;
       use App\Http\Controllers\Controller;
       use Illuminate\Http\Request;
       use App\Models\UserModel;
       class UserController extends Controller
           public function index()
               return UserModel::all();
           public function store(Request $request)
               $user = UserModel::create($request->all());
               return response()->json($user, 201);
           public function show(UserModel $user)
                return $user;
           public function update(Request $request, UserModel $user)
                $user->update($request->all());
                return $user;
      Route::get('/users', [UserController::class, 'index']);
      Route::post('/users', [UserController::class, 'store']);
      Route::get('/users/{user}', [UserController::class, 'show']);
      Route::put('/users/{user}', [UserController::class, 'update']);
      Route::delete('/users/{user}', [UserController::class, 'destroy']);
```

2. M_kategori

```
PS C:\laragon\www\PWL_25\PWL_POS> <mark>php</mark> artisan make:controller Api/KategoriController
 INFO Controller [C:\laragon\www\PWL_25\PWL_POS\app\Http\Controllers\Api\KategoriController.php] created successfully.
PWL_POS > app > Http > Controllers > Api > 🐄 KategoriController.php > PHP Intelephense > 😭 KategoriController
       namespace App\Http\Controllers\Api;
       use App\Http\Controllers\Controller;
       use Illuminate\Http\Request;
       use App\Models\KategoriModel;
       class KategoriController extends Controller
           public function index()
               return KategoriModel::all();
           public function store(Request $request)
               $kategori = KategoriModel::create($request->all());
               return response()->json($kategori, 201);
           public function show(KategoriModel $kategori)
               return $kategori;
           public function update(Request $request, KategoriModel $kategori)
               $kategori->update($request->all());
               return $kategori;
    Route::get('/kategoris', [KategoriController::class, 'index']);
    Route::post('/kategoris', [KategoriController::class, 'store']);
    Route::get('/kategoris/{kategori}', [KategoriController::class, 'show']);
    Route::put('/kategoris/{kategori}', [KategoriController::class, 'update']);
    Route::delete('/kategoris/{kategori}', [KategoriController::class, 'destroy']);
```

3. M_barang

```
PS C:\laragon\www\PWL_25\PWL_POS> php artisan make:controller Api/BarangController
 INFO Controller [C:\laragon\www\PWL_25\PWL_POS\app\Http\Controllers\Api\BarangController.php] created successfully.
PWL_POS > app > Http > Controllers > Api > 🦬 BarangController.php > PHP Intelephense > ધ BarangController
       namespace App\Http\Controllers\Api;
       use App\Http\Controllers\Controller;
       use Illuminate\Http\Request;
       use App\Models\BarangModel;
       class BarangController extends Controller
           public function index()
                return BarangModel::all();
            public function store(Request $request)
                $barang = BarangModel::create($request->all());
                return response()->json($barang, 201);
           public function show(BarangModel $barang)
                return $barang;
            public function update(Request $request, BarangModel $barang)
                $barang->update($request->all());
                return $barang;
51
      Route::get('/barangs', [BarangController::class, 'index']);
      Route::post('/barangs', [BarangController::class, 'store']);
      Route::get('/barangs/{barang}', [BarangController::class, 'show']);
      Route::put('/barangs/{barang}', [BarangController::class, 'update']);
      Route::delete('/barangs/{barang}', [BarangController::class, 'destroy']);
55
```