# LAPORAN JOBSHEET 11 RESTFUL API 2

# MATA KULIAH PEMROGRAMAN WEB LANJUT

Dosen Pengampu: Dimas Wahyu Wibowo, S.T., M.T.



## Disusun oleh:

Dahniar Davina SIB-2A / 2341760023

# JURUSAN TEKNOLOGI INFORMASI PROGRAM STUDI D-IV SISTEM INFORMASI BISNIS POLITEKNIK NEGERI MALANG

#### A. PRAKTIKUM 1 : Implementasi Eloquent Accessor

- 1. Sebelum memulai pastikan REST API, terlebih dahulu pastikan sudah ter instal aplikasi Postman.
- 2. Kita akan memodifikasi Table m\_user dengan menambahkan column : image, buka terminal lalu ketikkan

```
php artisan make:migration add_image_to_m_user_table
```

```
PS C:\laragon\www\PWL_2025\Minggull\Jobsheetll> php artisan make:migration add_im age_to_m_user_table

INFO Migration [C:\laragon\www\PWL_2025\Minggull\Jobsheetll\database\migration ns/2025_04_30_085209_add_image_to_m_user_table.php] created successfully.
```

3. Buka file migrasi tersebut lalu modifikasi seperti ini lalu simpan :

```
database > migrations > * 2025_04_30_085209_add_image_to_m_user_table.php > * class > * down
      <?php
      use Illuminate\Database\Migrations\Migration;
      use Illuminate\Database\Schema\Blueprint;
      use Illuminate\Support\Facades\Schema;
      return new class extends Migration
           * Run the migrations.
           public function up(): void
               Schema::table('m_user', function (Blueprint $table) {
                   $table->string('image');
               });
           * Reverse the migrations.
           public function down(): void
               Schema::table('m_user', function (Blueprint $table) {
                   $table->dropColumn('image');
               });
      };
```

4. Lakukan jalankan update migrasi dengan cara:

```
php artisan migrate
```

5. Lalu lakukan modifikasi models pada App/Models/UserModel.php

```
app > Models > 🦬 UserModel.php > ધ UserModel > 🔑 $fillable
      <?php
      namespace App\Models;
      use Illuminate\Database\Eloquent\Model;
      use Tymon\JWTAuth\Contracts\JWTSubject;
      use Illuminate\Database\Eloquent\Casts\Attribute;
  8
      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';
           protected $fillable = [
               'username',
               'nama',
               'password',
               'level_id',
               'image' // tambahan
           Π;
```

6. Lakukan modifikasi pada Controllers/Api/RegisterController

```
app > Http > Controllers > Api > 🐡 RegisterController.php > ...
      <?php
      namespace App\Http\Controllers\Api;
      use App\Models\UserModel;
      use App\Http\Controllers\Controller;
      use Illuminate\Http\Request;
      use Illuminate\Support\Facades\Validator;
       class RegisterController extends Controller
           public function __invoke(Request $request)
               $validator = Validator::make($request->all(), [
                   'username' => 'required',
                   'nama' => 'required',
                   'password' => 'required|min:5|confirmed',
                   'level_id' => 'required',
 20
                   'image' => 'required'
               1);
               if($validator->fails()){
                   return response()->json($validator->errors(), 422);
```

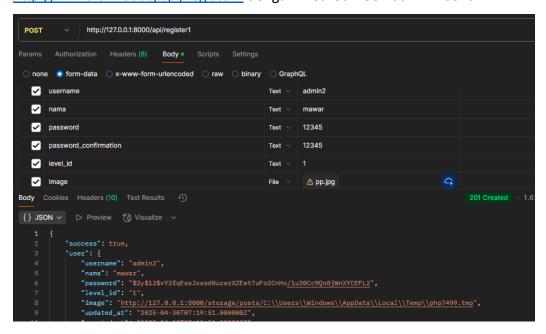
7. Anda dapat menambahkan detail untuk spesifikasi image pada validator

```
'image' => 'required|image|mimes:jpeg,png,jpg,gif,svg|max:2048' '
```

8. Ubah atau tambahkan register1 pada routes/api.php

Route::post('/register1', App\Http\Controllers\Api\RegisterController::class)

 Simpan dan akses pada aplikasi Postman, atur pada Body isi manual Key dan Valuenya pada Key image tambahkan value File dan upload gambar <a href="http://127.0.0.1:8000/api/register1">http://127.0.0.1:8000/api/register1</a> dengan method POST dan klik send



10. Pada Controllers/Api/RegisterController bagian create user ganti dengan

```
'image' => $request->image->hashName(),
```

- 11. Uji coba dan screenshot hasilnya apa perbedaan dari yang sebelumnya
  - ➢ Jika menggunakan 'image' => \$request->image maka file langsung mengambil data yang di-upload tanpa diproses apa pun. Yang tersimpan ke database bukan nama file (contohnya gambar.jpg), tapi object file pathnya.
  - Sedangkan Jika menggunakan 'image' => \$request->image->hashName() maka akan mengambil file → simpan dulu ke storage (storage/app/public/users) → baru simpan nama filenya ke database. File gambarnya akan masuk ke folder storage/app/public/users. Di database, hanya akan menyimpan nama file-nya aja, contoh ProfilePicture.jpg, jadi lebih ringan dan aman.

#### **B. TUGAS**

Implementasikan API untuk upload file/gambar pada tabel lainnya yaitu tabel m\_barang dan gunakan pada transaksi. Uji coba dengan method GET untuk memanggil data yang sudah diinputkan.

#### M barang

1. Buat migration pada table m barang

```
INFO Migration [C:\laragon\www\PWL_2025\Minggu11\Jobsheet11\
database\migrations/2025_04_30_145930_add_image_to_m_barang_tabl
e.php] created successfully.
```

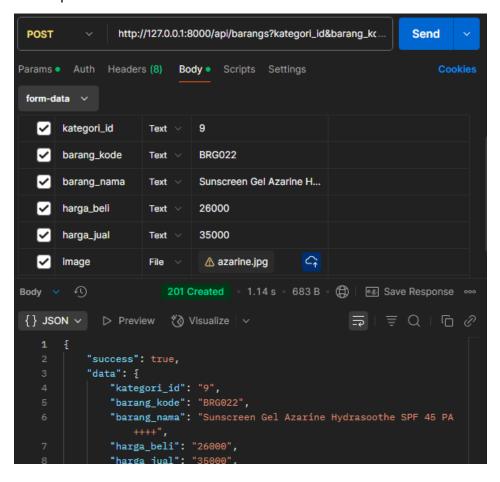
2. Ubah isi filenya

3. Modifikasi isi file pada BarangModel.php

4. Modifikasi isi file pada Api/BarangController.php

```
app > Http > Controllers > Api > 🦬 BarangController.php > ધ BarangController > 🕜 update
       <?php
       namespace App\Http\Controllers\API;
       use App\Http\Controllers\Controller;
       use Illuminate\Http\Request;
       use App\Models\BarangModel;
       use Illuminate\Support\Facades\Validator;
       class BarangController extends Controller
            public function index()
                 $barang = BarangModel::all();
                  return response()->json([
                       'success' => true,
                       'data' => $barang,
            public function store(Request $request)
                 $validator = Validator::make($request->all(), [
                     'kategori_id' => 'required|exists:m_kategori,kategori_id',
'barang_kode' => 'required|unique:m_barang,barang_kode',
'barang_nama' => 'required',
'harga_beli' => 'required|numeric',
                      'harga_jual' => 'required|numeric',
                      'image'
                                        => 'nullable|image|mimes:jpeg,png,jpg,gif,svg|max:20
                 1);
```

5. Proses pada Postman



### M\_transaksi

1. Buat Migration pada table t\_penjualan

```
PS C:\laragon\www\PML_2825\Winggu11\Jobsheet11> php artisan make:migration add_image_to_t_penjualan_table

| DFO | Migration | C:\laragon\www\PML_2825\Winggu11\Jobsheet11\database\migrations/2825_05_03_214345_add_image_to_t_penjualan_table.php | created successfully.
```

2. Ubah isi filenya

3. Buat API/PenjualanController

```
PS C:\laragon\www\PML_2025\Minggu11\Jobsheet11> php artisan make:migration add_image_

ke:controller Api/PenjualanController

TDFO Controller [C:\laragon\www\PML_2025\Minggu11\Jobsheet11\app\Http\Controllers\Api\PenjualanController.php] created successfully.
```

4. Tambahkan isi filenya

```
<?php
namespace App\Http\Controllers\Api;
use App\Http\Controllers\Controller;
use Illuminate\Http\Request;
use App\Models\PenjualanModel;
use Illuminate\Support\Facades\Storage;
use Illuminate\Support\Facades\Validator;
class PenjualanController extends Controller
    public function index()
        $data = PenjualanModel::with(['user', 'details.barang'])->get();
        return response()->json($data);
    public function show($transaksi)
        $penjualan = PenjualanModel::with(['user', 'details.barang'])->findOrFail($transaksi);
        return response()->json($penjualan);
    public function store(Request $request)
        => 'required|string|max:100',
            'pembeli'
                              -> 'required|string|unique:t_penjualan,penjualan_kode
             peniualan kode
```

5. Modifikasi isi file pada Penjualan Model.php

```
app > Models > 🦇 PenjualanModel.php > ધ PenjualanModel > 🗘 image
      <?php
      namespace App\Models;
      use Illuminate\Database\Eloquent\Factories\HasFactory;
      use Illuminate\Database\Eloquent\Model;
      use Illuminate\Database\Eloquent\Relations\BelongsTo;
      use Illuminate\Database\Eloquent\Relations\HasMany;
      use App\Models\UserModel;
      use App\Models\DetailPenjualanModel;
      use Illuminate\Database\Eloquent\Casts\Attribute;
      use Tymon\JWTAuth\Contracts\JWTSubject;
      use Illuminate\Foundation\Auth\User as Authenticatable;
      class PenjualanModel extends Model
          public function getJWTIdentifier(){
              return $this->getKey();
          public function getJWTCustomClaims(){
              return [];
```

6. Modifikasi tambahan pada route/api

use App\Http\Controllers\Api\PenjualanController;

```
Route::get('transaksi', [PenjualanController::class, 'index']);
Route::get('transaksi/{transaksi}', [PenjualanController::class, 'show']);
Route::post('transaksi', [PenjualanController::class, 'store']);
Route::post('transaksi/{transaksi}', [PenjualanController::class, 'update']);
Route::delete('transaksi/{transaksi}', [PenjualanController::class, 'destroy']);
```

7. Proses pada Postman

