

TUGAS
WEB Lanjut

PERTEMUAN 9

API Bagian 2

OLEH

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

```
Windsurf: Refactor | Explain | X
12 public function up(): void
13 {
14     Schema::table('m_user', function (Blueprint $table) {
15         $table->string('image');
16     });
17 }
18
19 /**
20  * Reverse the migrations.
21  */
22 Windsurf: Refactor | Explain | X
23 public function down(): void
24 {
25     Schema::table('m_user', function (Blueprint $table) {
26         $table->dropColumn('image');
27     });
28 }
```

4. Lakukan jalankan update migrasi dengan cara:
php artisan migrate

```
PS C:\laragon\www\smt4\WebLanjut\Week9\JS11> php artisan migrate
INFO Running migrations.
2025_04_26_025057_add_image_to_m_user_table ..... 15ms DONE
```

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

```
//praktikum week 4
protected $fillable = ['level_id', 'username', 'nama', 'password', 'created_at', 'updated_at', 'image'];
//praktikum week 7b
protected $hidden = ['password']; // jangan di tampilkan saat select
protected $casts = ['password' => 'hashed']; // casting password agar otomatis di hash

Windsurf: Refactor | Explain | Generate Function Comment | X
public function level(): BelongsTo
{
    return $this->belongsTo(LevelModel::class, 'level_id', 'level_id');
}

Windsurf: Refactor | Explain | Generate Function Comment | X
protected function image(): Attribute
{
    return Attribute::make(
        get: fn($image) => url('/storage/posts/' . $image),
    );
}
```

6. Lakukan modifikasi pada Controllers/Api/RegisterController

```

//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,svg|max:2048',
]);

//if validations 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,
    'image' => $request->image
]);

//return response JSON user is created

```

7. Anda dapat menambahkan detail untuk spesifikasi image pada validator

```

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

```

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

```

Route::post('/register1', RegisterController::class)->name('register1');

```

Simpan dan akses pada aplikasi Postman, atur pada Body isi manual Key dan Valuenya pada Key image tambahkan value File dan upload gambar

The screenshot shows a Postman interface for a POST request to `127.0.0.1:8000/api/register1`. The request body is set to `form-data` with the following fields:

Key	Type	Value	Description
password	Text	123456	
password_confirmation	Text	123456	
level_id	Text	2	
image	File	testpp.jpg	

The response is a 201 Created status with the following JSON body:

```

{
  "success": true,
  "user": {
    "username": "penggunaempat",
    "nama": "pengguna4",
    "level_id": "2",
    "image": "http://127.0.0.1:8000/storage/posts/C:\\Users\\Hwang Ren\\AppData\\Local\\Temp\\php579D.tmp",
    "updated_at": "2025-04-26T03:21:36.000000Z"
  }
}

```

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

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

10. Uji coba dan screenshot hasilnya apa perbedaan dari yang sebelumnya

```
1001-10 : 2 ,  
"image": "http://127.0.0.1:8000/storage/posts/  
8PPCqkT5XqE2hmC4K099eG5qd8kT744SyQiJMP1m.jpg",  
"updated_at": "2025-04-26T03:26:50.000000Z"
```

Yang

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 di inputkan.

<https://github.com/ren5602/smt4/commit/cd2b4fa5474ab6c57fd5717d012c440a041bc019>

POST

127.0.0.1:8000/api/barang

Send

Params

Auth

Headers (8)

Body •

Scripts

Settings

Cookies

form-data

	Key		Value	Descri...	Bulk Edit
<input checked="" type="checkbox"/>	kategori_id	Text	1		
<input checked="" type="checkbox"/>	barang_kode	Text	MK005		
<input checked="" type="checkbox"/>	barang_nama	Text	nasi mawut		
<input checked="" type="checkbox"/>	harga_beli	Text	9000		
<input checked="" type="checkbox"/>	harga_jual	Text	12000		

Body

201 Created

967 ms • 646 B •

{ } JSON

Preview

Visualize

```
1 {
2   "success": true,
3   "barang": {
4     "kategori_id": "1",
5     "barang_kode": "MK005",
6     "barang_nama": "nasi mawut",
7     "harga_beli": "9000",
8     "harga_jual": "12000",
9     "image": "http://127.0.0.1:8000/storage/barang/
x9u4MRCDenL0PJcadd0UFi48VLDmLoV5LoDkoWia.png".
```

127.0.0.1:8000/api/barang

POST 127.0.0.1:8000/api/barang Send

Params Auth Headers (8) Body Scripts Settings Cookies

form-data

	Key		Value	Descri...	Bulk Edit
<input checked="" type="checkbox"/>	kategori_id	Text	1		
<input checked="" type="checkbox"/>	barang_kode	Text	MK005		
<input checked="" type="checkbox"/>	barang_nama	Text	nasi mawut		
<input checked="" type="checkbox"/>	harga_beli	Text	9000		
<input checked="" type="checkbox"/>	harga_jual	Text	12000		

Body 201 Created • 967 ms • 646 B

JSON Preview Visualize

```
1 {
2   "success": true,
3   "barang": {
4     "kategori_id": "1",
5     "barang_kode": "MK005",
6     "barang_nama": "nasi mawut",
7     "harga_beli": "9000",
8     "harga_jual": "12000",
9     "image": "http://127.0.0.1:8000/storage/barang/
x9u4MRCDenL0PJcadd0UFI48VLDmLoV5LoDkoWio.png".
```