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MATERI : JOBSHEET 11 RESTFUL API 2

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\P1\Minggu 11\PWL_POS> php artisan make:migration add_image_to_m_user_table
Warning: Module "pdo_mysql" is already loaded in Unknown on line 0
[INFO] Migration [C:\laragon\www\P1\Minggu 11\PWL_POS\database\Migrations\2025_04_25_132254_add_image_to_m_user_table.php] created successfully.
PS C:\laragon\www\P1\Minggu 11\PWL_POS>
```

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

```
Minggu 11 > PWL_POS > database > migrations > 2025_04_25_132254_add_image_to_m_user_table.php > ...
1  <?php
2
3  use Illuminate\Database\Migrations\Migration;
4  use Illuminate\Database\Schema\Blueprint;
5  use Illuminate\Support\Facades\Schema;
6
7  return new class extends Migration
8  {
9      /**
10       * Run the migrations.
11       */
12     public function up(): void
13     {
14         Schema::table('m_user', function (Blueprint $table): void {
15             $table->string('image');
16         });
17     }
18
19     /**
20      * Reverse the migrations.
21      */
22     public function down(): void
23     {
24         Schema::table('m_user', function (Blueprint $table): void {
25             $table->dropColumn('image');
26         });
27     }
28 };
29
```

4. Lakukan jalankan update migrasi dengan cara:



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php artisan migrate

```
PS C:\laragon\www\P1\Minggu 11\PWL_POS> php artisan migrate --path=database/migrations/2025_04_25_132254_add_image_to_m_user_table.php
Warning: Module "pdo_mysql" is already loaded in Unknown on line 0
INFO Running migrations.
2025_04_25_132254_add_image_to_m_user_table ..... 18ms DONE
PS C:\laragon\www\P1\Minggu 11\PWL_POS>
```

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

```
Minggu 11 > PWL_POS > app > Models > UserModel.php > PHP Intelephense > UserModel > getJWTCustomClaims
29 //jobsheet 7
207 references | 0 implementations | Windsurf: Refactor | Explain
30 class UserModel extends Authenticatable implements JWTSubject
31
32 { //jobsheet 10 praktikum
33     use HasFactory;
34     0 references | 0 overrides | Windsurf: Refactor | Explain | Generate Function Comment | X
35     public function getJWTIdentifier(): mixed
36     {
37         return $this->getKey();
38     }
39     0 references | 0 overrides | Windsurf: Refactor | Explain | Generate Function Comment | X
40     public function getJWTCustomClaims(): array
41     {
42         return [];
43     }
44     0 references
45     protected $table = 'm_user';
46     0 references
47     protected $primaryKey = 'user_id';
48     0 references
49     protected $fillable = [
50         'username',
51         'password',
52         'nama',
53         'level_id',
54         'created_at',
55         'updated_at',
56         'image', //tambahan
57     ];
58     0 references | 0 overrides | Windsurf: Refactor | Explain | Generate Function Comment | X
59     public function level(): BelongsTo
60     {
61         return $this->belongsTo(LevelModel::class, 'level_id', 'level_id');
62     }
63     0 references | 0 overrides | Windsurf: Refactor | Explain | Generate Function Comment | X
64     public function image(): Attribute
65     {
66         return Attribute::make(
67             get: fn($image): string => asset(path: './storage/posts/' . $image),
68         );
69     }
70 }
```

6. Lakukan modifikasi pada Controllers/Api/RegisterController



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```
Minggu 11 > PWL_POS > app > Http > Controllers > Api > RegisterController.php > PHP Intelephense > RegisterController > __invoke
10
11
12 4 references | 0 implementations | Windsurf: Refactor | Explain
13 class RegisterController extends Controller
14 {
15     0 references | 0 overrides | Windsurf: Refactor | Explain | Generate Function Comment | X
16     public function __invoke(Request $request): JsonResponse|mixed{
17         //set validation
18         $validator = Validator::make($request->all(), [
19             'username' => 'required',
20             'nama' => 'required',
21             'password' => 'required|min:5|confirmed',
22             'level_id' => 'required',
23             'image' => 'required',
24         ]);
25
26         //if validations fails
27         if($validator->fails()){
28             return response()->json($validator->errors(), 422);
29         }
30
31         $user = UserModel::create([
32             'username' => $request->username,
33             'nama' => $request->nama,
34             'password' => bcrypt(value: $request->password),
35             'level_id' => $request->level_id,
36             'image' => $request->image
37         ]);
38
39         //return response json user is created
40         if($user){
41             return response()->json([
42                 'success' => true,
43                 'user' => $user,
44             ], 201);
45         }
46
47         //return response json fail
48         return response()->json([
49             'success' => false,
50         ], 409);
51     }
52 }
```

7. Anda dapat menambahkan detail untuk spesifikasi image pada validator

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

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

```
Route::post('/register1', App\Http\Controllers\Api\RegisterController::class)->name('register1');
```

8. Simpan dan akses pada aplikasi Postman, atur pada Body isi manual Key dan Valuenya pada Key image tambahkan value File dan upload gambar
http://127.0.0.1:8000/api/register1 dengan method POST dan klik send



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POST http://127.0.0.1:8000/api/register1

Params Authorization Headers (8) Body Scripts Settings Cookies

☐ none ☒ form-data ☐ x-www-form-urlencoded ☐ raw ☐ binary ☐ GraphQL

Key	Value	Description
username	penggunaempat	
nama	pengguna4	
password	12345	
password_confirmation	12345	
level_id	2	
image	IMG-1070.jpg	

Body Cookies Headers (10) Test Results

201 Created 1.20 s 607 B

```
{
  "success": true,
  "user": {
    "username": "penggunaempat",
    "nama": "pengguna4",
    "level_id": "2",
    "image": "http://127.0.0.1:8000/storage/posts/C:\\Users\\Dika Arie A\\AppData\\Local\\Temp\\php23E9.tmp",
    "updated_at": "2025-04-25T13:40:30.000000Z",
    "created_at": "2025-04-25T13:40:30.000000Z",
    "user_id": 63
  }
}
```

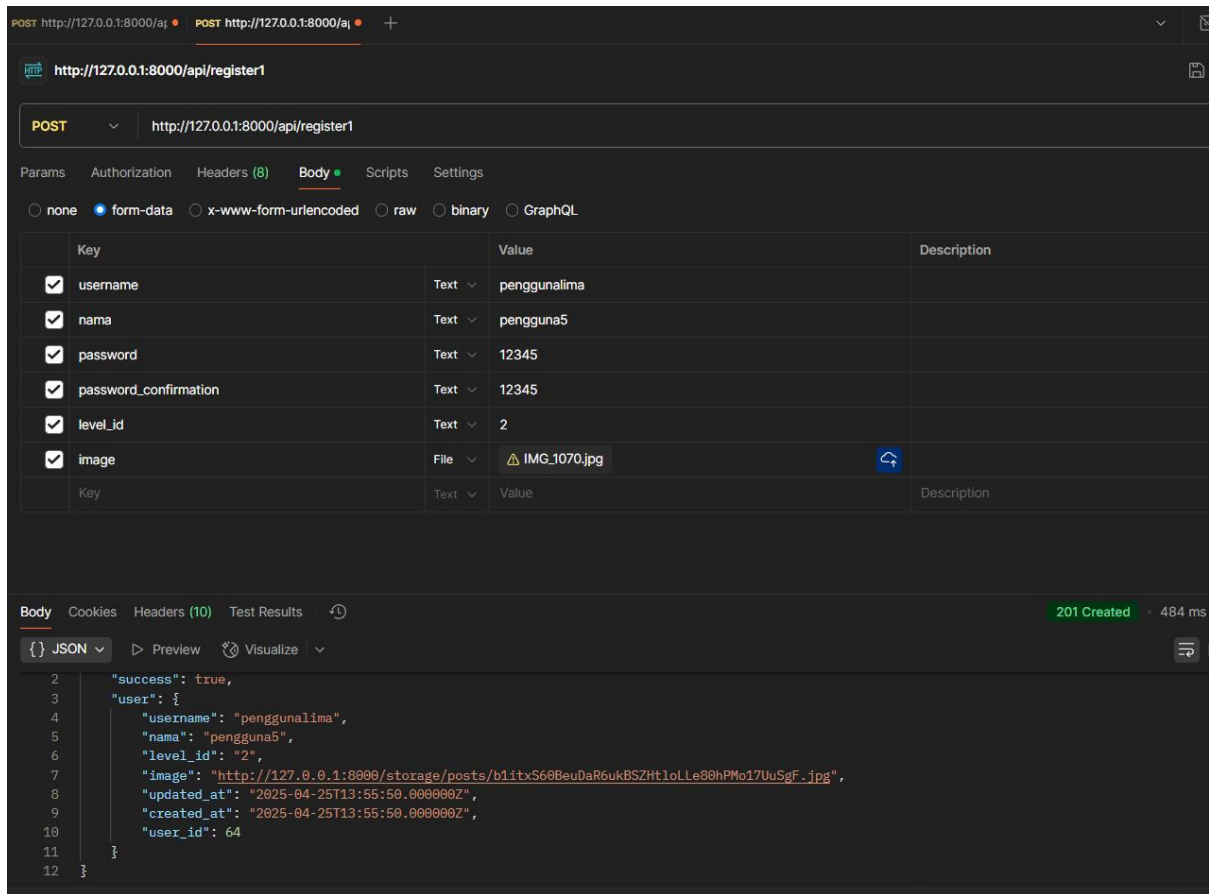
9. Pada Controllers/Api/RegisterController bagian create user ganti dengan

```
level_id => $request->level_id,  
'image' => $request->image->hasName(),
```



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



File image menjadi ter hash

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



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POST http://127.0.0.1:8000/api/ POST http://127.0.0.1:8000/api/ POST http://127.0.0.1:8000/api/ POST http://127.0.0.1:8000/api/ +

http://127.0.0.1:8000/api/barangs

POST http://127.0.0.1:8000/api/barangs Send

Params Authorization Headers (8) Body Scripts Settings Cookies

none form-data x-www-form-urlencoded raw binary GraphQL

Key	Value	Description
kategori_id	1	
barang_kode	PS005	
barang_nama	Playstation 5	
harga_beli	4000000	
harga_jual	5000000	
image	download.jpeg	

Body Cookies Headers (10) Test Results 201 Created · 364 ms · 641 B

```
{
  "success": true,
  "barang": {
    "kategori_id": "1",
    "barang_kode": "PS005",
    "barang_nama": "Playstation 5",
    "harga_beli": "4000000",
    "harga_jual": "5000000",
    "image": "http://127.0.0.1:8000/storage/gambar_barang/1745593397_download.jpeg",
    "updated_at": "2025-04-25T15:03:17.000000Z",
    "created_at": "2025-04-25T15:03:17.000000Z",
    "barang_id": 52
  }
}
```

POST http://127.0.0.1:8000/api/ POST http://127.0.0.1:8000/api/ POST http://127.0.0.1:8000/api/ GET http://127.0.0.1:8000/api/ +

http://127.0.0.1:8000/api/barangs/52

GET http://127.0.0.1:8000/api/barangs/52

Headers (10) Test Results 200 OK · 499

```
{
  "barang_id": 52,
  "kategori_id": 1,
  "barang_kode": "PS005",
  "barang_nama": "Playstation 5",
  "harga_beli": 4000000,
  "harga_jual": 5000000,
  "created_at": "2025-04-25T15:03:17.000000Z",
  "updated_at": "2025-04-25T15:03:17.000000Z",
  "image": "http://127.0.0.1:8000/storage/gambar_barang/1745593397_download.jpeg"
}
```




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HTTP http://127.0.0.1:8000/storage/gambar_barang/1745593397_download.jpeg

GET http://127.0.0.1:8000/storage/gambar_barang/1745593397_download.jpeg

Params Authorization Headers (6) Body Scripts Settings

Query Params

Key	Value
Key	Value

Body Cookies Headers (5) Test Results ↻

0x Hex Preview Visualize ↕

