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# **Laporan Praktikum Jobsheet 4**

# **MODEL dan ELOQUENT ORM**

# A. Praktikum 1 - \$fillable

1. UserModel.php

2. UserController.php

3. Hasil



ID	Username	Nama	ID Level Pengguna
1	admin	Administrator	1
2	manager	Manager	2
3	staff	Staff/Kasir	3
9	customer-1	Pelanggan Pertama	3
10	manager_dua	Manager 2	2

4. Menghilangkan kolom password pada UserModel.php

```
class UserModel extends Model
{
    use HasFactory;

    protected $table = 'm_user'; //mendefinisikan nama take
    protected $primaryKey = 'user_id'; //mendefinisikan producted $primaryKey = 'user_id'; //mendefinisikan nama takeprotected $primaryKey = 'user_id'; //mendefinisikan producted 'user_id'
```

5. Tetap memasukkan password pada create data di UserController.php

Terjadi error karena pada UserModel yang disediakan hanya 3 kolom yaitu level\_id, username, nama namun pada User Controller ingin memasukkan 4 kolom yaitu level\_id, username, nama dan password

```
SQLSTATE[HY000]: General error: 1364 Field 'password' doesn't have a default value

INSERT INTO `m_user` (`level_id`, `username`, `nama`, `updated_at`, `created_at`) VALU
```

- B. Praktikum 2.1 Retrieving Single Models
  - Menggunakan metode find
    - 1. UserController.php

```
public function index(){
    // Ambil model dengan kunci utamanya...
    $user = UserModel::find(1);
    return view('user', ['data' => $user]);
```

2. user.blade.php

```
<!DOCTYPE html>
<html>
<head>
<title>Data User</title>
</head>
<body>
<h1>Data User</h1>

User</h1>
Useranme
Useranme</t
```



# **Data User**

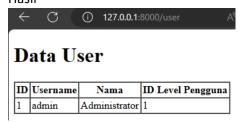
ID	Username	Nama	ID Level Pengguna
1	admin	Administrator	1

# Metode first()

1. UserController.php

```
public function index(){
    // Ambil model dengan kunci utamanya...
    $user = UserModel::where('level_id', 1)->first();
    return view('user', ['data' => $user]);
```

2. Hasil

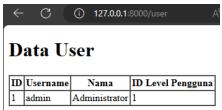


#### • Metode firstWhere

1. UserController.php

```
public function index(){
    // Ambil model dengan kunci utamanya...
    $user = UserModel::firstWhere('level_id', 1);
    return view('user', ['data' => $user]);
```

2. Hasil



### • Metode findOr

1. UserController.php mencari id 1

```
public function index(){{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bigsymbol{\bi
```

2. Hasil

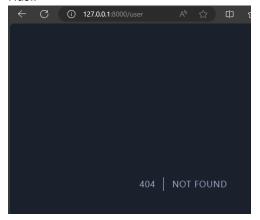


ID	Username	Nama	ID Level Pengguna
	admin	Administrator	

3. UserController.php mencari id 20

```
public function index(){
    // Ambil model dengan kunci utamanya...
    $user = UserModel::findOr(20, ['username', 'nama'], function(){
        abort(404);
    });
    return view('user', ['data' => $user]);
```

4. Hasil



# Metode firstOr

1. UserController.php mencari id>1

```
public function index(){
    // Ambil model dengan kunci utamanya...
    $user = UserModel::where('level_id','>',1)->firstOr(function(){
        abort(404);
    });
    return view('user', ['data' => $user]);
```

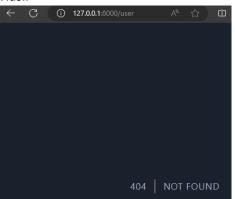
2. Hasil



3. UserController.php mencari id>20

```
public function index(){
    // Ambil model dengan kunci utamanya...
    $user = UserModel::where('level_id','>',20)->firstOr(function(){
        abort(404);
    });
    return view('user', ['data' => $user]);
```

4. Hasil

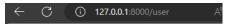


### C. Praktikum 2.2 – Not Found Exceptions

- Metode findOrFail
  - 1. UserController.php

```
public function index(){
    // Ambil model dengan kunci utamanya...
    $user = UserModel::findOrFail(1);
    return view('user', ['data' => $user]);
```

2. Hasil



# **Data User**

ID	Username	Nama	ID Level Pengguna
1	admin	Administrator	1

#### Metode firstOrFail

3. UserController.php

```
public function index(){
    // Ambil model dengan kunci utamanya...
    $user = UserModel::where('username','manager')->firstOrFail();
    return view('user', ['data' => $user]);
```

4. Hasil



Jika hasil ditemukan akan memunculkan data, jika tidak maka akan otomatis fail

# D. Praktikum 2.3 - Retreiving Aggregrates

1. UserController.php (count)

```
public function index(){
    // Ambil model dengan kunci utamanya...
    $user = UserModel::where('level_id',2)->count();
    // dd($user);
    return view('user',['data' => $user]);
```

2. user.blade.php

3. Hasil





# E. Praktikum 2.4 – Retreiving or Creating Models

- Metode firstOrCreate
  - 1. UserController.php

2. user.blade.php

3. Hasil



# **Data User**

ID	Username	Nama	ID Level Pengguna
2	manager	Manager	2

Ditemukan data manager sehingga memunculkan id 2

4. UserController.php

5. Hasil



		Username		ID Level Pengguna
ı	11	manager22	Manager Dua Dua	2



Saat data tidak ditemukan maka akan membuat data baru dengan id 11

#### Metode firstOrNew

1. UserController.php

2. Hasil

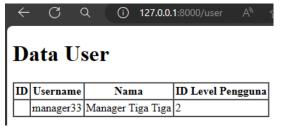


# **Data User**

ID	Username	Nama	ID Level Pengguna
2	manager	Manager	2

3. UserController.php

4. Hasil



user_id	level_id	username	nama	passw
1	1	admin	Administrator	\$2y\$12
2	2	manager	Manager	\$2y\$12
3	3	staff	Staff/Kasir	\$2y\$12
9	3	customer-1	Pelanggan Pertama	\$2y\$12
10	2	manager_dua	Manager 2	\$2y\$12
11	2	manager22	Manager Dua Dua	\$2y\$12

Tidak ada data baru yang diinsertkan dan hanya disiapkan saja datanya sehingga tidak memiliki id

# 5. UserController.php

# 6. Hasil



Terdapat tambahan data jika dilakukan aksi save pada data user sehingga masuk ke database dengan id 12

### F. Praktikum 2.5 – Attribute Changes

1. UserController.php

#### 2. Hasil

Output dd merupakan false

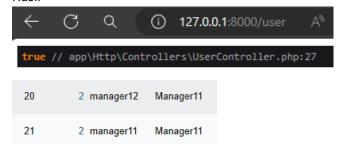


# Jika run kembali maka akan error

user_id	level_id	username	nama	pa
1	1	admin	Administrator	<b>\$2</b> y
2	2	manager	Manager	<b>\$</b> 2 <sub>y</sub>
3	3	staff	Staff/Kasir	<b>\$2</b> y
9	3	customer-1	Pelanggan Pertama	<b>\$2</b> <sub>3</sub>
10	2	manager_dua	Manager 2	\$2 <sub>y</sub>
11	2	manager22	Manager Dua Dua	<b>\$2</b> y
12	2	manager33	Manager Tiga Tiga	<b>\$2</b> }
13	2	manager56	Manager55	<b>\$2</b> y
14	2	manager55	Manager55	<b>\$2</b> y

3. UserController.php

4. Hasil

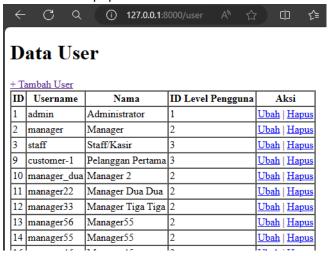


### G. Praktikum 2.6 – Create, Read, Update, Delete (CRUD)

- Membuat aksi
  - 1. user.blade.php

```
<h1>Data User</h1>
<a href="/user/tambah">+ Tambah User</a>
ID
     Username
     Nama
     ID Level Pengguna
     Aksi
  @foreach ($data as $d)
     {{ $d->user_id }}
     \t d = {\{ $d-> username }} 
     {{ $d->nama }}
     {{ $d->level_id }}
        <a href="/user/ubah/{{ $d->user_id }}">Ubah</a>
        <a href="/user/hapus/{{ $d->user_id }}">Hapus</a>
  @endforeach
```

2. UserController.php



#### CREATE/TAMBAH

1. user\_tambah.blade.php

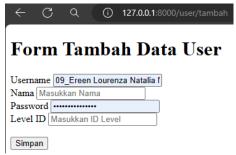
2. Route

Route::get('/user/tambah', [UserController::class, 'tambah']);

3. UserController.php

```
public function tambah(){
    return view('user_tambah');
}
```

4. Hasil



Membuka url /user/tambah

5. Route tambah\_simpan

```
Route::post('/user/tambah_simpan', [UserController::class, 'tambah_simpan']);
```

6. UserController.php

7. Input data

← C Q (1) 127.0.0.1:8000/user/tambah	
--------------------------------------	--

# Form Tambah Data User

Userna	me	admin1
Nama	Adn	ninistrator 1
Passwo	ord	••••
Level ID		ı
Simpa	in ]	,

8. Hasil

I	22	manager112	Manager111	2	<u>Ubah   Hapus</u>
ı	23	admin1	Administrator 1	1	<u>Ubah   Hapus</u>

# UPDATE/UBAH

1. user ubah.blade.php

2. Route

```
Route::get('/user/ubah/{id}', [UserController::class, 'ubah']);
```

3. UserController.php

```
public function ubah($id){
    $user = UserModel::find($id);
    return view('user_ubah', ['data' => $user]);
}
```

|--|

# Form Ubah Data User

<u>Kembali</u>	
Username admin1	
Nama Administrator 1	
Password	
Level ID 1	
Ubah	

5. Route ubah\_simpan

Route::put('/user/ubah\_simpan/{id}', [UserController::class, 'ubah\_simpan']);

6. UserController.php

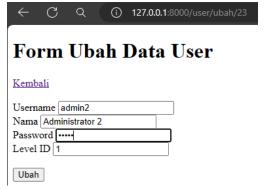
```
public function ubah_simpan($id, Request $request){
    $user = UserModel::find($id);

    $user->username = $request->username;
    $user->nama = $request->nama;
    $user->password = Hash::make('$request->password');
    $user->level_id = $request->level_id;

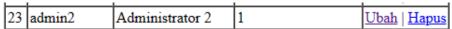
    $user->save();

    return redirect('/user');
}
```

7. Input Data



8. Hasil



# • DELETE/HAPUS

1. Route hapus

```
Route::get('/user/hapus/{id}', [UserController::class, 'hapus']);
```

2. UserController.php

```
public function hapus($id){
    $user = UserModel::find($id);
    $user->delete();

return redirect('/user');
}
```

22	manager112	Manager111	2	<u>Ubah   Hapus</u>

#### H. Praktikum 2.7 - Relationships

1. UserModel.php

```
use Illuminate\Database\Eloquent\Factories\HasFactory;
use Illuminate\Database\Eloquent\Model;
use Illuminate\Database\Eloquent\Relations\BelongsTo;

class UserModel extends Model

    use HasFactory;

    protected $table = 'm_user'; //mendefinisikan nama tabel yang digunakan oleh model ini
    protected $primaryKey = 'user_id'; //mendefinisikan primary key dari tabel yang digunakan
    /**

    * The attributes that are mass assignable
    *
    @var array
    */
    protected $fillable = ['level_id', 'username', 'nama', 'password'];

    public function level(): BelongsTo{
        return $this->belongsTo(LevelModel::class, 'level_id', 'level_id');
    }
}
```

2. LevelModel.php

```
class LevelModel extends Model
{
    use HasFactory;

    protected $table = 'm_level'; //mendefinisikan nama tabel yang digunakan oleh model ini
    protected $primaryKey = 'level_id'; //mendefinisikan primary key dari tabel yang digunakan
    /**
    * The attributes that are mass assignable
    *
    @var array
    */
    protected $fillable = ['level_kode','level_nama'];
}
```

3. UserController.php

```
#items: array:14 [▼
    0 => App\Mode...\UserModel {#331 ▶}
    1 => App\Mode...\UserModel {#332 ▶}
    2 => App\Mode...\UserModel {#333 ▶}
    3 => App\Mode...\UserModel {#334 ▶}
    4 => App\Mode...\UserModel {#335 ▶}
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    19 => App\Mode...\U
```

5. UserController.php

```
public function index(){
    $user = UserModel::with('level')->get();
    return view('user', ['data' => $user]);
    // dd($user);
```

6. user.blade.php

7. Hasil



# **Data User**

+ Tambah User

ID	Username	Nama	ID Level Pengguna	Kode Level	Nama Level	Aksi
1	admin	Administrator	1	ADM	Administrator	<u>Ubah   Hapus</u>
2	manager	Manager	2	MNG	Manager	<u>Ubah</u>   <u>Hapus</u>
3	staff	Staff/Kasir	3	STF	Staff/Kasir	<u>Ubah   Hapus</u>
9	customer-1	Pelanggan Pertama	3	STF	Staff/Kasir	<u>Ubah</u>   <u>Hapus</u>
10	manager_dua	Manager 2	2	MNG	Manager	<u>Ubah   Hapus</u>
11	manager22	Manager Dua Dua	2	MNG	Manager	<u>Ubah</u>   <u>Hapus</u>
12	manager33	Manager Tiga Tiga	2	MNG	Manager	<u>Ubah   Hapus</u>
13	manager56	Manager55	2	MNG	Manager	<u>Ubah</u>   <u>Hapus</u>
14	manager55	Manager55	2	MNG	Manager	<u>Ubah   Hapus</u>
16	manager46	Manager45	2	MNG	Manager	<u>Ubah</u>   <u>Hapus</u>
17	manager45	Manager45	2	MNG	Manager	<u>Ubah   Hapus</u>
20	manager12	Manager11	2	MNG	Manager	Ubah   Hapus
21	manager11	Manager11	2	MNG	Manager	<u>Ubah   Hapus</u>
22	manager112	Manager111	2	MNG	Manager	<u>Ubah</u>   <u>Hapus</u>