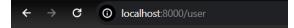
NIM : 2241720082

# JOBSHEET 04 MODEL dan ELOQUENT ORM

#### Praktikum 1 - \$fillable

```
// tambah data user dengan Eloquent Model
$data = [
    'username' => 'Manager_dua',
    'nama' => 'Manager 2',
    'password' => Hash::make('12345'),
    'level_id' => 2,
];
UserModel::create($data); // tambah data ke tabel m_user
$user = UserModel::all(); // ambil semua data dari tabel m_user
return view('user', ['data' => $user]);
```



ID	Username	Nama	ID Level Pengguna
1	admin	Administrator	1
2	manager	Manager	2
3	staff	Staff/Kasir	3
5	customer-1	Pelanggan Pertama	4
6	Manager_dua	Manager 2	2

```
protected $fillable = [
    'level_id',
    'username',
    'nama',
    // 'password',
];
```

```
// tambah data user dengan Eloquent Model
$data = [
    'username' => 'Manager_tiga',
    'nama' => 'Manager 3',
    'password' => Hash::make('12345'),
    'level_id' => 2,
];
UserModel::create($data); // tambah data ke tabel m_user
$user = UserModel::all(); // ambil semua data dari tabel m_user
return view('user', ['data' => $user]);
```

```
Illuminate \ Database \ QueryException

PHP 8.2.4 $\infty$ 10.46.0

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

INSERT INTO `m_user` (`username`, `nama`, `level_id`, `updated_at`, `created_at`) VALUES (Manager_tiga, Manager 3, 2, 2024-03-08 07:56:18, 2024-03-08 07:56:18)
```

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#### **Praktikum 2.1 – Retrieving Single Models**

### **Data User**

ID	Username	Nama	ID Level Pengguna
1	admin	Administrator	1

```
// mencari menggunakan findOr
$user = UserModel::findOr(1, ['username', 'nama'], function () {
   abort(404);
});
return view('user', ['data' => $user]);
```

# ← → C ① localhost:8000/user

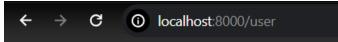
ID	Username	Nama	ID Level Pengguna
	admin	Administrator	

```
// mencari menggunakan findOr (tidak ditemukan)
$user = UserModel::findOr(20, ['username', 'nama'], function () {
    abort(404);
});
return view('user', ['data' => $user]);
```

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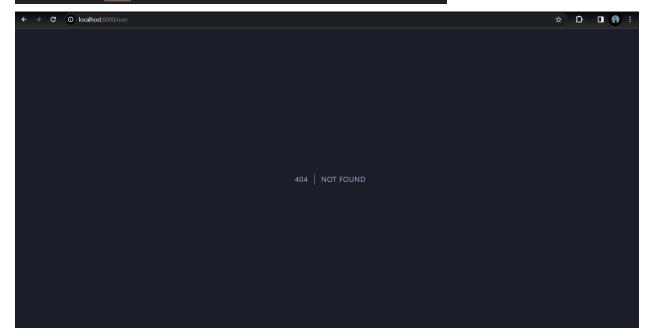
#### **Praktikum 2.2 – Not Found Exceptions**

```
// mencari menggunakan findOrFail
$user = UserModel::findOrFail(1);
return view('user', ['data' => $user]);
```



ID	Username	Nama	ID Level Pengguna
1	admin	Administrator	1

```
// mencari menggunakan findOrFail (tidak ditemukan)
$user = UserModel::where('username', 'manager9')->firstOrFail();
return view('user', ['data' => $user]);
```



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#### **Praktikum 2.3 – Retrieving Aggregates**



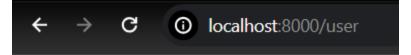
## **Data User**

```
Jumlah Pengguna
3
```

#### **Praktikum 2.4 – Retrieving or Creating Models**

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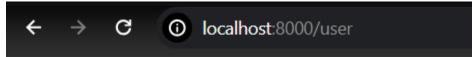
```
<body>
  <h1>Data User</h1>
  ID
      Username
      Nama
      ID Level Pengguna
    {{ $data->user_id }}
      {{ $data->username }}
      {{ $data->nama }}
      {{ $data->level id }}
    </body>
```



ID	Username	Nama	ID Level Pengguna
2	manager	Manager	2

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Data model yang baru ditambahkan belum tersimpan di dalam database.

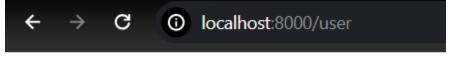


ID	Username	Nama	ID Level Pengguna
13	manager22	Manager Dua Dua	2

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#### **Praktikum 2.5 – Attribute Changes**

```
// Attribute Changes
$user = UserModel::create([
    'username' => 'manager55',
    'nama' => 'Manager55',
    'password' => Hash::make('12345'),
    'level id' => 2,
]);
$user->username = 'manager56';
$user->isDirty(); // true
$user->isDirty('username'); // true
$user->isDirty('nama'); // false
$user->isDirty(['nama', 'username']); // true
$user->isClean(); // false
$user->isClean('username'); // false
$user->isClean('nama'); // true
$user->isClean(['nama', 'username']); // false
$user->save();
$user->isDirty(); // false
$user->isClean(); // true
dd($user->isDirty());
```



false // app\Http\Controllers\UserController.php:96

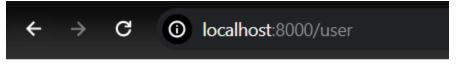
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```
// Attribute Changes
$user = UserModel::create([
    'username' => 'manager11',
    'nama' => 'Manager11',
    'password' => Hash::make('12345'),
    'level_id' => 2,
]);

$user->username = 'manager12';

$user->save();

$user->wasChanged(); // true
$user->wasChanged('username'); // true
$user->wasChanged(['nama', 'username']); // true
$user->wasChanged('nama'); // false
dd($user->wasChanged(['nama', 'username'])); // true
```



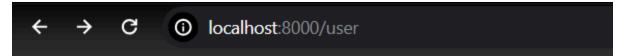
true // app\Http\Controllers\UserController.php:114

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

```
// get all user
$user = UserModel::all();
return view('user', ['data' => $user]);
```

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# **Data User**

#### + Tambah User

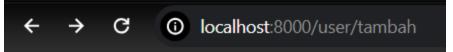
ID	Username	Nama	ID Level Pengguna	Aksi
1	admin	Administrator	1	<u>Ubah</u>   <u>Hapus</u>
2	manager	Manager	2	<u>Ubah</u>   <u>Hapus</u>
3	staff	Staff/Kasir	3	<u>Ubah</u>   <u>Hapus</u>
5	customer-1	Pelanggan Pertama	4	<u>Ubah</u>   <u>Hapus</u>
6	Manager_dua	Manager 2	2	<u>Ubah</u>   <u>Hapus</u>
9	Manager_tiga	Manager 3	2	<u>Ubah</u>   <u>Hapus</u>
13	manager22	Manager Dua Dua	2	<u>Ubah</u>   <u>Hapus</u>
18	manager56	Manager55	2	<u>Ubah</u>   <u>Hapus</u>
19	manager12	Manager11	2	<u>Ubah</u>   <u>Hapus</u>

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

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

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```
<body>
   <h1>Form Tambah Data User</h1>
    <form action="user/tambah_simpan" method="post">
        {{ csrf_field() }}
        <label>Username</label>
        <input type="text" name="username" placeholder="Masukkan Username">
       <br>
        <label>Nama</label>
        <input type="text" name="nama" placeholder="Masukkan Nama">
       <br>
        <label>Password</label>
       <input type="password" name="password" placeholder="Masukkan Password">
       <br>
        <label>Level ID</label>
        <input type="text" name="level_id" placeholder="Masukkan ID Level">
        <br><br><br>>
        <input type="submit" class="btn btn-success" value="simpan">
    </form>
</body>
```

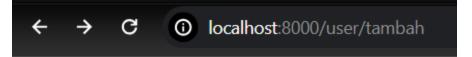


# Form Tambah Data User

Username Masukkan Username
Nama Masukkan Nama
Password Masukkan Password
Level ID Masukkan ID Level

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



# Form Tambah Data User

Username		manager33	
Nama	Mai	nager33	
Passwo	ord	•••••	
Level 1	ID [	2	

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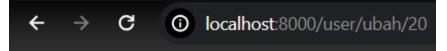


# **Data User**

### + Tambah User

ID	Username	Nama	ID Level Pengguna	Aksi
1	admin	Administrator	1	<u>Ubah</u>   <u>Hapus</u>
2	manager	Manager	2	<u>Ubah</u>   <u>Hapus</u>
3	staff	Staff/Kasir	3	<u>Ubah</u>   <u>Hapus</u>
5	customer-1	Pelanggan Pertama	4	<u>Ubah</u>   <u>Hapus</u>
6	Manager_dua	Manager 2	2	<u>Ubah</u>   <u>Hapus</u>
9	Manager_tiga	Manager 3	2	<u>Ubah</u>   <u>Hapus</u>
13	manager22	Manager Dua Dua	2	<u>Ubah</u>   <u>Hapus</u>
18	manager56	Manager55	2	<u>Ubah</u>   <u>Hapus</u>
19	manager12	Manager11	2	<u>Ubah</u>   <u>Hapus</u>
20	manager33	Manager33	2	<u>Ubah</u>   <u>Hapus</u>

NIM : 2241720082



# Form Ubah Data User

Username		manager33	
Nama	Mai	nager33	
Passwo	ord	•••••	••••
Level 1	ID [	2	
	_		

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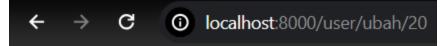
```
public function ubah_simpan($id, Request $request)
{
    $user = UserModel::find($id);

    $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');
}
```

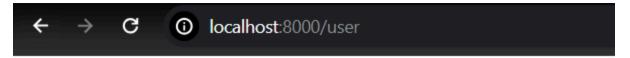
```
Route::get('/user/tambah', [UserController::class, 'tambah']);
Route::post('/user/tambah_simpan', [UserController::class, 'tambah_simpan']);
Route::get('/user/ubah/{id}', [UserController::class, 'ubah']);
Route::put('/user/ubah_simpan/{id}', [UserController::class, 'ubah_simpan']);
```



## Form Ubah Data User

Username		manager33	
Nama	Mai	nager66	
Password		•••••	••••
Level 1	$\mathbf{D}$	2	

NIM : 2241720082



# **Data User**

#### + Tambah User

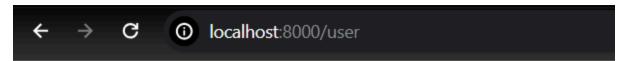
			TD T 1 D	
Ш	Username	Nama	ID Level Pengguna	Aksı
1	admin	Administrator	1	<u>Ubah</u>   <u>Hapus</u>
2	manager	Manager	2	<u>Ubah</u>   <u>Hapus</u>
3	staff	Staff/Kasir	3	<u>Ubah</u>   <u>Hapus</u>
5	customer-1	Pelanggan Pertama	4	<u>Ubah</u>   <u>Hapus</u>
6	Manager_dua	Manager 2	2	<u>Ubah</u>   <u>Hapus</u>
9	Manager_tiga	Manager 3	2	<u>Ubah</u>   <u>Hapus</u>
13	manager22	Manager Dua Dua	2	<u>Ubah</u>   <u>Hapus</u>
18	manager56	Manager55	2	<u>Ubah</u>   <u>Hapus</u>
19	manager12	Manager11	2	<u>Ubah</u>   <u>Hapus</u>
20	manager33	Manager66	2	<u>Ubah</u>   <u>Hapus</u>

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

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

```
Route::get('/user/tambah', [UserController::class, 'tambah']);
Route::post('/user/tambah_simpan', [UserController::class, 'tambah_simpan']);
Route::get('/user/ubah/{id}', [UserController::class, 'ubah']);
Route::put('/user/ubah_simpan/{id}', [UserController::class, 'ubah_simpan']);
Route::get('/user/hapus/{id}', [UserController::class, 'hapus']);
```

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# **Data User**

### + Tambah User

ID	Username	Nama	ID Level Pengguna	Aksi
1	admin	Administrator	1	<u>Ubah</u>   <u>Hapus</u>
2	manager	Manager	2	<u>Ubah</u>   <u>Hapus</u>
3	staff	Staff/Kasir	3	<u>Ubah</u>   <u>Hapus</u>
5	customer-1	Pelanggan Pertama	4	<u>Ubah</u>   <u>Hapus</u>
6	Manager_dua	Manager 2	2	<u>Ubah</u>   <u>Hapus</u>
9	Manager_tiga	Manager 3	2	<u>Ubah</u>   <u>Hapus</u>
13	manager22	Manager Dua Dua	2	<u>Ubah</u>   <u>Hapus</u>
18	manager56	Manager55	2	<u>Ubah</u>   <u>Hapus</u>

Menghapus data user dengan id 20 dan 19.

#### Praktikum 2.7 – Relationships

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

```
public function index()
{
    // get all user with level
    $user = UserModel::with('level')->get();
    dd($user);
}
```

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```
← → C ① localhost:8000/user
```

```
Illuminate\Database\Eloquent\Collection {#318 \ // app\Http\Controllers\UserController.php:16
#items: array:8 [\
0 => App\Mode...\UserModel {#325 \>}
1 => App\Mode...\UserModel {#326 \>}
2 => App\Mode...\UserModel {#327 \>}
3 => App\Mode...\UserModel {#328 \>}
4 => App\Mode...\UserModel {#329 \>}
5 => App\Mode...\UserModel {#330 \>}
6 => App\Mode...\UserModel {#331 \>}
7 => App\Mode...\UserModel {#331 \>}
]
#escapeWhenCastingToString: false
}
```

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

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

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# **Data User**

#### + Tambah User

ID	Username	Nama	ID Level Pengguna	Kode Level	Nama Level	Aksi			
1	admin	Administrator	1	ADM	Administrator	<u>Ubah</u>   <u>Hapus</u>			
2	manager	Manager	2	MNG	Manager	<u>Ubah</u>   <u>Hapus</u>			
3	staff	Staff/Kasir	3	STF	Staff/Kasir	Ubah   Hapus			
5	customer-1	Pelanggan Pertama	4	CUS	Pelanggan	<u>Ubah</u>   <u>Hapus</u>			
6	Manager_dua	Manager 2	2	MNG	Manager	<u>Ubah</u>   <u>Hapus</u>			
9	Manager_tiga	Manager 3	2	MNG	Manager	Ubah   Hapus			
13	manager22	Manager Dua Dua	2	MNG	Manager	<u>Ubah</u>   <u>Hapus</u>			
18	manager56	Manager55	2	MNG	Manager	<u>Ubah   Hapus</u>			