



Jurusan Teknologi Informasi Politeknik Negeri Malang
Jobsheet-4: MODEL dan ELOQUENT ORM
Mata Kuliah Pemrograman Web Lanjut

Maret 2025

| | | |
|--------------|---|--------------------|
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LEMBAR JAWABAN JOBSHEET

Praktikum 1

Data User

| ID | Username | Nama | ID Level Pengguna |
|----|-------------|---------------|-------------------|
| 1 | admin | Administrator | 1 |
| 2 | manager | Manager | 2 |
| 3 | staff | Staff/Kasir | 3 |
| 4 | manager_dua | Manager 2 | 2 |

Data ditambahkn

```
Illuminate \ Database \ QueryException
```

```
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`) VALUES (2, manager
```

Terjadi error karena saat melakukan insert, nilai password tidak dimasukan ke database



Praktikum 2.1

UserController.php

```
$user = UserModel::find(1);
```

Data User

| ID | Username | Nama | ID Level Pengguna |
|----|----------|---------------|-------------------|
| 1 | admin | Administrator | 1 |

Menampilkan data dengan kunci utama 1

UserController.php

```
$user = UserModel::where('level_id', 1)->first();
```

Data User

| ID | Username | Nama | ID Level Pengguna |
|----|----------|---------------|-------------------|
| 1 | admin | Administrator | 1 |

Menampilkan data dengan level_id 1

UserController.php

```
$user = UserModel::firstWhere('level_id', 1);
```



Data User

| ID | Username | Nama | ID Level Pengguna |
|----|----------|---------------|-------------------|
| 1 | admin | Administrator | 1 |

Menampilkan data dengan level_id 1

UserController.php

```
$user = UserModel::findOr(1, ['username', 'nama'], function () {  
    abort( code: 404);  
});
```

Data User

| ID | Username | Nama | ID Level Pengguna |
|----|----------|---------------|-------------------|
| | admin | Administrator | |

Menampilkan username dan nama dengan kunci utama 1

UserController.php

```
$user = UserModel::findOr(20, ['username', 'nama'], function () {  
    abort( code: 404);  
});
```

404 | NOT FOUND



Data tidak ditemukan menampilkan laman 404

Praktikum 2.2

UserController.php

```
$user = UserModel::findOrFail(1);
```

Data User

| ID | Username | Nama | ID Level Pengguna |
|----|----------|---------------|-------------------|
| 1 | admin | Administrator | 1 |

Menampilkan data dengan kunci utama 1

UserController.php

```
$user = UserModel::where('username', 'manager9')->firstOrFail();
```

404 | NOT FOUND

Data tidak ditemukan menampilkan laman 404

Praktikum 2.3



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```
2 // app\Http\Controllers\UserController.php:54
```

Menampilkan kode di bagian fungsi dd

Ubah beberapa kode

UserController.php

```
//      $user = UserModel::where('level_id', 2)->count();  
      dd($user);
```

user.blade.php

```
<tr>  
    <th>Jumlah Pengguna</th>  
</tr>  
<tr>  
    <td>{{ $data }}</td>  
</tr>
```

Data User

| Jumlah Pengguna |
|-----------------|
| 2 |



Praktikum 2.4

UserController.php

```
$user = UserModel::firstOrCreate([
    'username' => 'manager',
    'nama' => 'Manager',
]);
return view('user', ['data' => $user]);
```

Data User

| ID | Username | Nama | ID Level Pengguna |
|----|----------|---------|-------------------|
| 2 | manager | Manager | 2 |

Menampilkan data karena data sudah ada karena data tidak perlu dibuat



UserController.php

```
$user = UserModel::firstOrCreate([
    'username' => 'manager22',
    'nama' => 'Manager Dua Dua',
    'password' => Hash::make('12345'),
    'level_id' => 2
]);
return view('user', ['data' => $user]);
```

Data User

| ID | Username | Nama | ID Level Pengguna |
|----|-----------|-----------------|-------------------|
| 5 | manager22 | Manager Dua Dua | 2 |

Membuat dan menampilkan data



UserController.php

```
$user = UserModel::firstOrCreate([
    'username' => 'manager',
    'nama' => 'Manager',
],
);
return view('user', ['data' => $user]);
```

Data User

| ID | Username | Nama | ID Level Pengguna |
|----|----------|---------|-------------------|
| 2 | manager | Manager | 2 |

Menampilkan data



UserController.php

```
$user = UserModel::firstOrCreate(
    [
        'username' => 'manager33',
        'nama' => 'Manager Tiga Tiga',
        'password' => Hash::make('12345'),
        'level_id' => 2
    ],
);
return view('user', ['data' => $user]);
```

Data User

| ID | Username | Nama | ID Level Pengguna |
|----|-----------|-------------------|-------------------|
| | manager33 | Manager Tiga Tiga | 2 |

Menampilkan data tapi tidak disimpan ke database



UserController.php

```
$user = UserModel::firstOrCreate(
    [
        'username' => 'manager33',
        'nama' => 'Manager Tiga Tiga',
        'password' => Hash::make('12345'),
        'level_id' => 2
    ],
);
$user->save();
return view('user', ['data' => $user]);
```

Data User

| ID | Username | Nama | ID Level Pengguna |
|----|-----------|-------------------|-------------------|
| 6 | manager33 | Manager Tiga Tiga | 2 |

Menampilkan data dan menyimpan ke database dilihat dari id yang ada

Praktikum 2.5



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UserController.php

```
$user = UserModel::create([
    'username' => 'manager55',
    'nama' => 'Manager55',
    'password' => Hash::make( value: '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());
```



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UserController.php

```
$user = UserModel::create([
    'username' => 'manager55',
    'nama' => 'Manager55',
    'password' => Hash::make( value: '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());
```



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membuat, mengubah, memeriksa status perubahan, dan menyimpan model

UserController.php

```
$user = UserModel::create([
    'username' => 'manager11',
    'nama' => 'Manager11',
    'password' => Hash::make( value: '12345'),
    'level_id' => 2,
]);
$user->username = 'manager12';

$user->save();

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

Melakukan pemeriksaan apakah perubahan tersebut berhasil



Praktikum 2.6

Data User

[+ Tambah User](#)

| ID | Username | Nama | ID Level Pengguna | Aksi |
|----|-------------|-------------------|-------------------|--|
| 1 | admin | Administrator | 1 | Ubah Hapus |
| 2 | manager | Manager | 2 | Ubah Hapus |
| 3 | staff | Staff/Kasir | 3 | Ubah Hapus |
| 4 | manager_dua | Manager 2 | 2 | Ubah Hapus |
| 5 | manager22 | Manager Dua Dua | 2 | Ubah Hapus |
| 6 | manager33 | Manager Tiga Tiga | 2 | Ubah Hapus |
| 7 | manager56 | Manager55 | 2 | Ubah Hapus |
| 8 | manager12 | Manager11 | 2 | Ubah Hapus |

Menampilkan semua data user

Form Tambah Data User

Username

Nama

Password

Level ID

Menampilkan laman tambah



Form Tambah Data User

Username

Nama

Password

Level ID

Simpan

| | | | | | |
|---|------|------|---|----------------------|-----------------------|
| 9 | test | test | 1 | Ubah | Hapus |
|---|------|------|---|----------------------|-----------------------|

User ditambahkan

Form Ubah Data User

[Kembali](#)

Username

Nama

Password

Level ID

Ubah

Menampilkan data yang akan diubah



Form Ubah Data User

[Kembali](#)

Username

Nama

Password

Level ID

Ubah

| | | | | |
|---|-------|-------|---|--|
| 9 | test2 | test2 | 1 | Ubah Hapus |
|---|-------|-------|---|--|

Merubah data

Data User

[+ Tambah User](#)

| ID | Username | Nama | ID Level Pengguna | Aksi |
|----|-------------|-------------------|-------------------|--|
| 1 | admin | Administrator | 1 | Ubah Hapus |
| 2 | manager | Manager | 2 | Ubah Hapus |
| 3 | staff | Staff/Kasir | 3 | Ubah Hapus |
| 4 | manager_dua | Manager 2 | 2 | Ubah Hapus |
| 5 | manager22 | Manager Dua Dua | 2 | Ubah Hapus |
| 6 | manager33 | Manager Tiga Tiga | 2 | Ubah Hapus |
| 7 | manager56 | Manager55 | 2 | Ubah Hapus |
| 8 | manager12 | Manager11 | 2 | Ubah Hapus |

Menghapus data test2



Praktikum 2.7

Data User

[+ Tambah User](#)

| ID | Username | Nama | ID Level Pengguna | Kode Level | Nama Level | Aksi |
|----|-------------|-------------------|-------------------|------------|---------------|--|
| 1 | admin | Administrator | 1 | ADM | Administrator | Ubah Hapus |
| 2 | manager | Manager | 2 | MNG | Manager | Ubah Hapus |
| 3 | staff | Staff/Kasir | 3 | STF | Staff/Kasir | Ubah Hapus |
| 4 | manager_dua | Manager 2 | 2 | MNG | Manager | Ubah Hapus |
| 5 | manager22 | Manager Dua Dua | 2 | MNG | Manager | Ubah Hapus |
| 6 | manager33 | Manager Tiga Tiga | 2 | MNG | Manager | Ubah Hapus |
| 7 | manager56 | Manager55 | 2 | MNG | Manager | Ubah Hapus |
| 8 | manager12 | Manager11 | 2 | MNG | Manager | Ubah Hapus |

Menampilkan kode level dan nama level