



Jurusan Teknologi Informasi Politeknik Negeri Malang

Jobsheet-5 : Blade View, Web Templating(AdminLTE), Databables

Mata Kuliah Praktikum Pemrograman Web Lanjut (PWL)

Maret 2024

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JOBSHEET 05

Blade View, Web Templating(AdminLTE), Databables

Praktikum 1 – Integrasi Laravel dengan AdminLte3

1. Dalam root folder project lakukan command berikut, untuk mendefinisikan requirement project.

```
PS C:\laragon\www\PNM_POS> composer require jeroennoten/laravel-adminlte
./composer.json has been updated
Running composer update jeroennoten/laravel-adminlte
Loading composer repositories with package information
Updating dependencies
Lock file operations: 2 installs, 0 updates, 0 removals
  - Locking almasaeed2010/adminlte (v3.2.0)
  - Locking jeroennoten/laravel-adminlte (v3.11.0)
Writing lock file
Installing dependencies from lock file (including require-dev)
Package operations: 2 installs, 0 updates, 0 removals
  - Downloading almasaeed2010/adminlte (v3.2.0)
  - Downloading jeroennoten/laravel-adminlte (v3.11.0)
  - Installing almasaeed2010/adminlte (v3.2.0): Extracting archive
  - Installing jeroennoten/laravel-adminlte (v3.11.0): Extracting archive
Generating optimized autoload files
> Illuminate\Foundation\ComposerScripts::postAutoloadDump
> @php artisan package:discover --ansi

 INFO  Discovering packages.

jeroennoten/laravel-adminlte ..... DONE
laravel/sail ..... DONE
laravel/sanctum ..... DONE
laravel/tinker ..... DONE
nesbot/carbon ..... DONE
nunomaduro/collision ..... DONE
nunomaduro/termwind ..... DONE
spatie/laravel-ignition ..... DONE

84 packages you are using are looking for funding.
Use the `composer fund` command to find out more!
> @php artisan vendor:publish --tag=laravel-assets --ansi --force

 INFO  No publishable resources for tag [laravel-assets].

No security vulnerability advisories found.
Using version ^3.11 for jeroennoten/laravel-adminlte
PS C:\laragon\www\PNM_POS>
```

2. Melakukan instalasi requirement project di atas dengan command berikut:



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```
PS C:\laragon\www\PWL_POS> php artisan adminlte:install
Basic assets installed successfully.
Configuration file installed successfully.
Translation files installed successfully.
The installation is complete.
```

Perintah di atas akan menginstall:

- AdminLTE distribution files dan dependensinya (Bootstrap, jQuery, etc.) dalam folder public/vendor .
 - Konfigurasi package di file config/adminlte.php
 - Paket translasi di folder lang/vendor/adminlte/
 - Dalam composer.json akan otomatis ditambahkan require untuk laravel-adminlte
3. Buat file resources/views/layout/app.blade.php. Isi dengan kode berikut.

```
1 @extends('adminlte::page')
2
3 {{-- Extend and customize the browser title --}}
4 @section('title')
5     {{ config('adminlte.title') }}
6     @hasSection('subtitle') | @yield('subtitle') @endif
7 @stop
8
9 {{-- Extend and customize the page content header --}}
10 @section('content_header')
11     @hasSection('content_header_title')
12         <h1 class="text-muted">
13             @yield('content_header_title')
14             @hasSection('content_header_subtitle')
15                 <small class="text-dark">
16                     <i class="fas fa-xs fa-angle-right text-muted"></i>
17                     @yield('content_header_subtitle')
18                 </small>
19             @endif
20         </h1>
21     @endif
22 @stop
23
24 {{-- Rename section content to content_body --}}
25 @section('content')
26     @yield('content_body')
27 @stop
28
29 {{-- Create a common footer --}}
30 @section('footer')
31     <div class="float-right">
32         Version: {{ config('app.version', '1.0.0') }}
33     </div>
34     <strong>
35         KEMENTERIAN PENDIDIKAN, KEBUDAYAAN, RISET, DAN TEKNOLOGI
36         POLITEKNIK NEGERI MALANG
37         JURUSAN TEKNOLOGI INFORMASI
38         Jl. Soekarno Hatta No. 9, Jatimulyo, Lowokwaru, Malang 65141
39         Telp. (0341) 404424 - 404425, Fax (0341) 404420
40         <a href="{{ config('app.company_url', '#') }}">
41             {{ config('app.company_name', 'My company') }}
42         </a>
43     </strong>
44 @stop
```



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```
{{-- Add common Javascript/Jquery code --}}
@push('js')
<script>
    $(document).ready(function() {
        // Add your common script logic here...
    });
</script>
@endpush

{{-- Add common CSS customizations --}}
@push('css')
<style type="text/css">
    {{-- You can add AdminLTE customizations here --}}
    /*
    .card-header {
        border-bottom: none;
    }
    .card-title {
        font-weight: 600;
    }
    */
</style>
@endpush
```

4. Edit resources/views/welcome.blade.php, kemudian replace seluruh kodenya dengan kode berikut:

```
resources > views > welcome.blade.php > ...
1 @extends('layout.app')
2
3 {{-- Customize layout section --}}
4
5 @section('subtitle', 'Welcome')
6 @section('content_header_title', 'Home')
7 @section('content_header_subtitle', 'Welcome')
8
9 {{-- Content body: main page content --}}
10
11 @section('content_body')
12     <p>Welcome to this beautiful admin panel.</p>
13 @stop
14
15 {{-- Push extra CSS --}}
16
17 @push('css')
18     {{-- Add here extra stylesheets --}}
19     {{-- <link rel = "stylesheet" href="/css/admin/custom.css"> --}}
20 @endpush
21
22 {{-- Push extra scripts --}}
23 @push('js')
24     <script> console.log("Hi, I'm using the Laravel-AdminLTE package!");
25     </script>
26 @endpush
```

Untuk menggunakan blade template ini cukup dengan extend AdminLTE layout dengan cara `@extends('adminlte::page')`.

Template yields di beberapa bagian terklasifikasi dalam 2 yield:

- main: Biasa digunakan untuk extending the layout.
- misc: untuk kasus yang tidak biasa, atau hanya situasi tertentu.



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Dokumentasi lebih detail terdapat di link berikut:

<https://github.com/jeroennoten/LaravelAdminLTE/wiki/Usage>

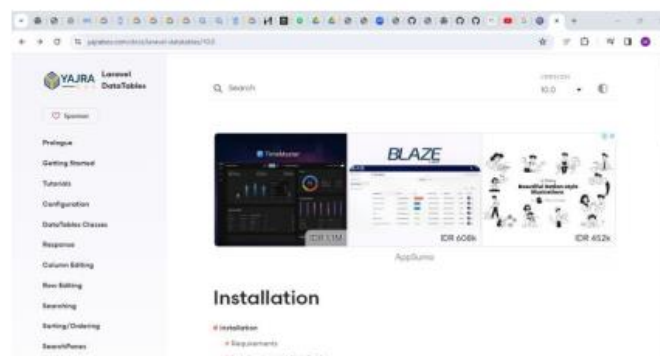
5. Kembali ke browser, menuju ke halaman awal.



Praktikum 2 – Integrasi dengan DataTables

Datatables biasa digunakan untuk menampilkan list data dengan banyak fitur seperti searching, pagination, sorting dan lain-lainnya. Dalam laravel biasa digunakan yajra datatables karena didesain agar sesuai dengan laravel.

<https://yajrabox.com/docs/laravel-datatables/10.0>



Langkah – langkah praktikum

1. Install Laravel DataTables



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```
PS C:\laragon\www\PWL_POS> composer require laravel/ui --dev
./composer.json has been updated
Running composer update laravel/ui
Loading composer repositories with package information
Updating dependencies
Lock file operations: 1 install, 0 updates, 0 removals
  - Locking laravel/ui (v4.5.0)
Writing lock file
Installing dependencies from lock file (including require-dev)
Package operations: 1 install, 0 updates, 0 removals
  - Downloading laravel/ui (v4.5.0)
  - Installing laravel/ui (v4.5.0): Extracting archive
Generating optimized autoload files
> Illuminate\Foundation\ComposerScripts::postAutoloadDump
> @php artisan package:discover --ansi

 INFO  Discovering packages.

jeroennoten/laravel-adminlte ..... DONE
laravel/sail ..... DONE
laravel/sanctum ..... DONE
laravel/tinker ..... DONE
laravel/ui ..... DONE
nesbot/carbon ..... DONE
nunomaduro/collision ..... DONE
nunomaduro/termwind ..... DONE
spatie/laravel-ignition ..... DONE

84 packages you are using are looking for funding.
Use the `composer fund` command to find out more!
> @php artisan vendor:publish --tag=laravel-assets --ansi --force

 INFO  No publishable resources for tag [laravel-assets].

No security vulnerability advisories found.
Using version ^4.5 for laravel/ui
PS C:\laragon\www\PWL_POS> composer require yajra/laravel-datatables:*10.0
The "10.0" constraint for "yajra/laravel-datatables" appears too strict and will likely not
match what you want. See https://getcomposer.org/constraints
./composer.json has been updated
Running composer update yajra/laravel-datatables
Loading composer repositories with package information
Updating dependencies
Lock file operations: 7 installs, 0 updates, 0 removals
  - Locking league/fractal (0.20.1)
  - Locking yajra/laravel-datatables (v10.0.0)
  - Locking yajra/laravel-datatables-buttons (v10.0.0)
  - Locking yajra/laravel-datatables-editor (v1.25.4)
  - Locking yajra/laravel-datatables-fractal (v10.0.0)
  - Locking yajra/laravel-datatables-html (v10.12.0)
  - Locking yajra/laravel-datatables-oracle (v10.11.4)
Writing lock file
Installing dependencies from lock file (including require-dev)
Package operations: 7 installs, 0 updates, 0 removals
  - Downloading yajra/laravel-datatables-oracle (v10.11.4)
  - Downloading yajra/laravel-datatables-html (v10.12.0)
  - Downloading league/fractal (0.20.1)
  - Downloading yajra/laravel-datatables-fractal (v10.0.0)
  - Downloading yajra/laravel-datatables-editor (v1.25.4)
  - Downloading yajra/laravel-datatables-buttons (v10.0.0)
  - Downloading yajra/laravel-datatables (v10.0.0)
  - Installing yajra/laravel-datatables-oracle (v10.11.4): Extracting archive
  - Installing yajra/laravel-datatables-html (v10.12.0): Extracting archive
  - Installing league/fractal (0.20.1): Extracting archive
  - Installing yajra/laravel-datatables-fractal (v10.0.0): Extracting archive
  - Installing yajra/laravel-datatables-editor (v1.25.4): Extracting archive
  - Installing yajra/laravel-datatables-buttons (v10.0.0): Extracting archive
  - Installing yajra/laravel-datatables (v10.0.0): Extracting archive
8 package suggestions were added by new dependencies, use `composer suggest` to see details.
Generating optimized autoload files
> Illuminate\Foundation\ComposerScripts::postAutoloadDump
> @php artisan package:discover --ansi

 INFO  Discovering packages.

jeroennoten/laravel-adminlte ..... DONE
laravel/sail ..... DONE
laravel/sanctum ..... DONE
laravel/tinker ..... DONE
laravel/ui ..... DONE
nesbot/carbon ..... DONE
nunomaduro/collision ..... DONE
nunomaduro/termwind ..... DONE
spatie/laravel-ignition ..... DONE
yajra/laravel-datatables-buttons ..... DONE
yajra/laravel-datatables-editor ..... DONE
yajra/laravel-datatables-fractal ..... DONE
yajra/laravel-datatables-html ..... DONE
yajra/laravel-datatables-oracle ..... DONE
```



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2. Pastikan nodejs sudah terinstall, dengan perintah npm -v.
Jika belum install nodejs package manager dari <https://nodejs.org/dist/v20.11.1/nodev20.11.1-x64.msi>
Npm digunakan untuk manajemen package javascript.

```
PS C:\laragon\www\PWL_POS> npm -v
10.2.4
```

3. Install Laravel DataTables Vite dan sass

```
PS C:\laragon\www\PWL_POS> npm i laravel-datatables-vite --save-dev

added 33 packages, and audited 34 packages in 8s

8 packages are looking for funding
  run `npm fund` for details

found 0 vulnerabilities
npm notice
npm notice New minor version of npm available! 10.2.4 -> 10.5.0
npm notice Changelog: https://github.com/npm/cli/releases/tag/v10.5.0
npm notice Run `npm install -g npm@10.5.0` to update!
npm notice

PS C:\laragon\www\PWL_POS> npm install -D sass

added 15 packages, and audited 49 packages in 2s

10 packages are looking for funding
  run `npm fund` for details

found 0 vulnerabilities
```

4. Edit file resources/js/app.js

```
resources > js > JS app.js
1  import './bootstrap';
2  import "../sass/app.scss";
3  import 'laravel-datatables-vite';
4
```

5. Buatlah file resources/sass/app.scss

```
resources > sass > app.scss
1  // font
2  @import url('https://fonts.bunny.net/css?family=Nunito');
3
4
5  // Bootstrap
6  @import 'bootstrap/scss/bootstrap';
7
8  // DataTables
9  @import 'bootstrap-icons/font/bootstrap-icons.css';
10 @import 'datatables.net-bs5/css/dataTables.bootstrap5.min.css';
11 @import 'datatables.net-buttons-bs5/css/buttons.bootstrap5.min.css';
12 @import 'datatables.net-select-bs5/css/select.bootstrap5.css';
```



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6. Jalankan dengan npm run dev

```
PS C:\laragon\www\PWL_POS> npm run dev

> dev
> vite

VITE v5.1.6 ready in 202 ms

  → Local:   http://localhost:5173/
  → Network: use --host to expose
  → press h + enter to show help

LARAVEL v10.47.0 plugin v1.0.2

  → APP_URL: http://localhost
```

7. Selanjutnya kita akan buat datatables untuk kategori

```
PS C:\laragon\www\PWL_POS> php artisan datatables:make Kategori

INFO DataTable [C:\laragon\www\PWL_POS\app\DataTables\KategoriDataTable.php] created successfully.
```

8. Kita edit KategoriDataTable untuk mengatur kolom apa saja yang ingin ditampilkan Sesuai dengan kodeprogram berikut

```
<?php

namespace App\DataTables;

use App\Models\KategoriModel;
use Illuminate\Database\Eloquent\Builder as QueryBuilder;
use Yajra\DataTables\EloquentDataTable;
use Yajra\DataTables\Html\Builder as HtmlBuilder;
use Yajra\DataTables\Html/Button;
use Yajra\DataTables\Html\Column;
use Yajra\DataTables\Services\DataTable;

0 references | 0 implementations
class KategoriDataTable extends DataTable
{
    /**
     * Build the DataTable class.
     *
     * @param QueryBuilder $query Results from query() method.
     */
    0 references | 0 overrides
    public function dataTable(QueryBuilder $query): EloquentDataTable
    {
        return (new EloquentDataTable($query))
            ->setRowId('id');
    }

    /**
     * Get the query source of dataTable.
     */
    0 references | 0 overrides
    public function query([KategoriModel] $model): QueryBuilder
    {
        return $model->newQuery();
    }

    /**
     * Optional method if you want to use the html builder.
     */
}
```



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```
0 references | 0 overrides
public function html(): HtmlBuilder
{
    return $this->builder()
        ->setTableId('kategori-table')
        ->columns($this->getColumns())
        ->minifiedAjax()
        ->orderBy(1)
        ->selectStyleSingle()
        ->buttons([
            Button::make('excel'),
            Button::make('csv'),
            Button::make('pdf'),
            Button::make('print'),
            Button::make('reset'),
            Button::make('reload')
        ]);
}

/**
 * Get the dataTable columns definition.
 */
1 reference | 0 overrides
public function getColumns(): array
{
    return [
        Column::make('kategori_id'),
        Column::make('kategori_kode'),
        Column::make('kategori_nama'),
        Column::make('created_at'),
        Column::make('updated_at'),
    ];
}

/**
 * Get the filename for export.
 */
0 references | 0 overrides
protected function filename(): string
{
    return 'Kategori_' . date('YmdHis');
}
```

9. Ubah kategori model, sesuaikan seperti berikut:

```
<?php

namespace App\Models;

use Illuminate\Database\Eloquent\Factories\HasFactory;
use Illuminate\Database\Eloquent\Model;
use Illuminate\Database\Eloquent\Relations\HasMany;

2 references | 0 implementations
class KategoriModel extends Model
{
    0 references
    protected $table = 'm_kategori';
    0 references
    protected $primaryKey = 'kategori_id';

    0 references | 0 overrides
    public function barang(): HasMany
    {
        return $this->hasMany(BarangModel::class, 'barang_id', 'barang_id');
    }
}
```

10. Ubah Kategori Controller sesuaikan dengan skrip berikut



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```
<?php

namespace App\Http\Controllers;

use Illuminate\Http\Request;
use App\DataTables\KategoriDataTable;

2 references | 0 implementations
class KategoriController extends Controller
{
    1 reference | 0 overrides
    public function index(KategoriDataTable $dataTable)
    {
        return $dataTable->render('kategori.index');
    }
}
```

11. Buat folder kategori di dalam resources/view, kemudian buat view blade index untuk kategori resources/views/kategori/index.blade.php

```
resources > views > kategori > index.blade.php > ...

1  @extends('layout.app')
2
3  {{-- Customize layout sections --}}
4
5  @section('subtitle', 'kategori')
6  @section('content_header_title', 'Home')
7  @section('content_header_subtitle', 'kategori')
8
9  @section('content')
10     <div class="container">
11         <div class="card">
12             <div class="card-header">Manage Kategori</div>
13             <div class="card-body">
14                 {{ $dataTable->table }}
15             </div>
16         </div>
17     </div>
18 @endsection
19
20 @push('scripts')
21     {{ $dataTable->scripts() }}
22 @endpush
```

12. Pastikan route untuk kategori sudah tersedia

```
Route::get('/kategori', [KategoriController::class, 'index']);
```

13. Sesuaikan app layout seperti kode berikut



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```
1  @extends('adminlte::page')
2
3  {{-- Extend and customize the browser title --}}
4  @section('title')
5      {{ config('adminlte.title') }}
6      @hasSection('subtitle') | @yield('subtitle') @endif
7  @stop
8
9  @vite('resources/js/app.js')
10
11  {{-- Extend and customize the page content header --}}
12  @section('content_header')
13      @hasSection('content_header_title')
14          <h1 class="text-muted">
15              @yield('content_header_title')
16              @hasSection('content_header_subtitle')
17                  <small class="text-dark">
18                      <i class="fas fa-xs fa-angle-right text-muted"></i>
19                      @yield('content_header_subtitle')
20                  </small>
21              @endif
22          </h1>
23      @endif
24  @stop
25
26  {{-- Rename section content to content_body --}}
27  @section('content')
28      @yield('content_body')
29  @stop
30
31  {{-- Create a common footer --}}
32  @section('footer')
33      <div class="float-right">
34          Version: {{ config('app.version', '1.0.0') }}
35      </div>
36      <strong>
37          <a href="{{ config('app.company_url', '#') }}">
38              {{ config('app.company_name', 'My company') }}
39          </a>
40      </strong>
41  @stop
42
43  {{-- Add common Javascript/Jquery code --}}
44  @push('js')
45      <script src="https://cdn.datatables.net/2.0.2/js/dataTables.js"></script>
46  @endpush
47
48  @stack('scripts')
49
50  {{-- Add common CSS customizations --}}
51  @push('css')
52      <link rel="stylesheet" href="https://cdn.datatables.net/2.0.2/css/dataTables.dataTables.css" />
53      <style type="text/css">
54          {{-- You can add AdminLTE customizations here --}}
55          /*
56          .card-header {
57              border-bottom: none;
58          }
59          .card-title {
60              font-weight: 600;
61          }
62          */
63      </style>
64  @endpush
```

14. Menset ViteJs / script type defaults



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```
1 <?php
2
3 namespace App\Providers;
4
5 use Illuminate\Support\ServiceProvider;
6 use Yajra\DataTables\Html\Builder;
7
8 1 reference | 0 implementations
9 class AppServiceProvider extends ServiceProvider
10 {
11     /**
12      * Register any application services.
13      */
14     0 references | 0 overrides
15     public function register(): void
16     {
17         //
18     }
19
20     /**
21      * Bootstrap any application services.
22      */
23     0 references | 0 overrides
24     public function boot(): void
25     {
26         Builder::useVite();
27     }
28 }
```

15. Isikan beberapa data ke table kategori

		kategori_id	kategori_kode	kategori_nama	created_at	updated_at
<input type="checkbox"/>	Edit	<input type="checkbox"/>	Copy	<input type="checkbox"/>	Delete	1 FSH Fashion NULL NULL
<input type="checkbox"/>	Edit	<input type="checkbox"/>	Copy	<input type="checkbox"/>	Delete	2 MKU Make Up NULL NULL
<input type="checkbox"/>	Edit	<input type="checkbox"/>	Copy	<input type="checkbox"/>	Delete	3 ELK Elektronik NULL NULL
<input type="checkbox"/>	Edit	<input type="checkbox"/>	Copy	<input type="checkbox"/>	Delete	4 BRT Barang Rumah Tangga NULL NULL
<input type="checkbox"/>	Edit	<input type="checkbox"/>	Copy	<input type="checkbox"/>	Delete	5 MKN Makanan NULL NULL

16. Databables sudah dapat di load di /kategori

Home > kategori

Manage Kategori

Show 10 entries

Kategori Id	Kategori Kode	Kategori Nama	Created At	Updated At
2	MKU	Make Up		
5	MKN	Makanan		
1	FSH	Fashion		
3	ELK	Elektronik		
4	BRT	Barang Rumah Tangga		

Showing 1 to 5 of 5 entries

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Praktikum 3 – Membuat form kemudian menyimpan data dalam database

1. Menyesuaikan routing, tambahkan dua routing berikut

```
Route::get('/kategori/create', [KategoriController::class, 'create']);
Route::post('/kategori', [KategoriController::class, 'store']);
```

2. Tambahkan dua function berikut dalam KategoriController

```
class KategoriController extends Controller
{
    1 reference | 0 overrides
    public function index(KategoriDataTable $dataTable)
    {
        return $dataTable->render('kategori.index');
    }

    1 reference | 0 overrides
    public function create(){
        return view('kategori.create');
    }

    1 reference | 0 overrides
    public function store(Request $request){
        KategoriModel::create([
            'kategori_kode' => $request->kodeKategori,
            'kategori_nama' => $request->namaKategori,
        ]);
        return redirect('/kaegori');
    }
}
```

3. Dalam folder views/kategori, buatlah file dengan nama create.blade.php

```
@extends('layout.app')
{{-- Customize layout sections--}}
@section('subtitle', 'Kategori')
@section('content_header_title', 'Kategori')
@section('content_header_subtitle', 'Create')
{{-- Content body: main page content --}}
@section('content')
    <div class="container">
        <div class="card card-primary">
            <div class="card-header">
                <h3 class="card-title">Buat kategori baru</h3>
            </div>
            <form method="post" action="../../kategori">
                <div class="card-body">
                    <div class="form-group">
                        <label for="kodeKategori">Kode Kategori</label>
                        <input type="text" class="form-control" id="kodekategori" name="kodeKategori" placeholder="Kode Kategori">
                    </div>
                    <div class="form-group">
                        <label for="namaKategori">Nama Kategori</label>
                        <input type="text" class="form-control" id="namaKategori" name="namaKategori" placeholder="Nama Kategori">
                    </div>
                    <div class="card-footer">
                        <button type="submit" class="btn btn-primary">Submit</button>
                    </div>
                </div>
            </form>
        </div>
    </div>
</section>
```

4. Kita lakukan pengecualian proteksi CsrfToken. Karena kita belum melakukan otentikasi. Kita edit dalam file berikut:



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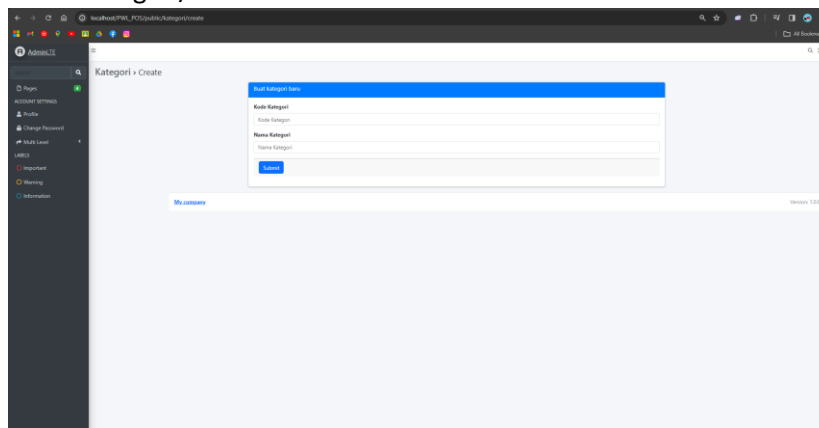
```
<?php

namespace App\Http\Middleware;

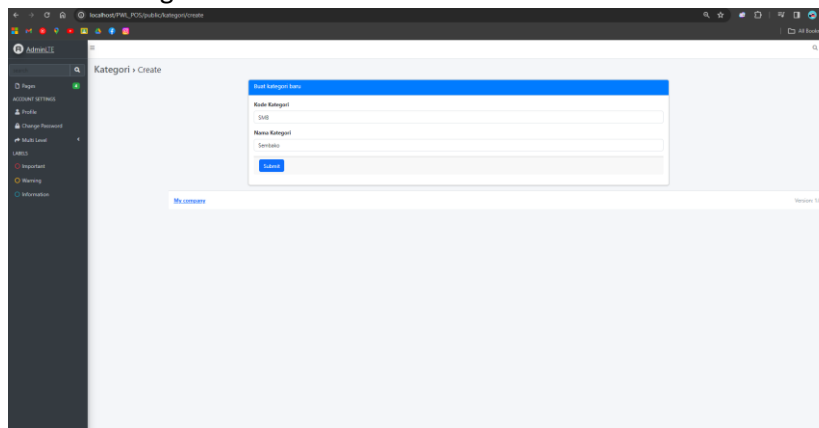
use Illuminate\Foundation\Http\Middleware\VerifyCsrfToken as Middleware;

2 references | 0 implementations
class VerifyCsrfToken extends Middleware
{
    /**
     * The URIs that should be excluded from CSRF verification.
     *
     * @var array<int, string>
     */
    0 references
    protected $except = [
        '/kategori'
    ];
}
```

5. Akses kategori/create



6. Tambah kategori



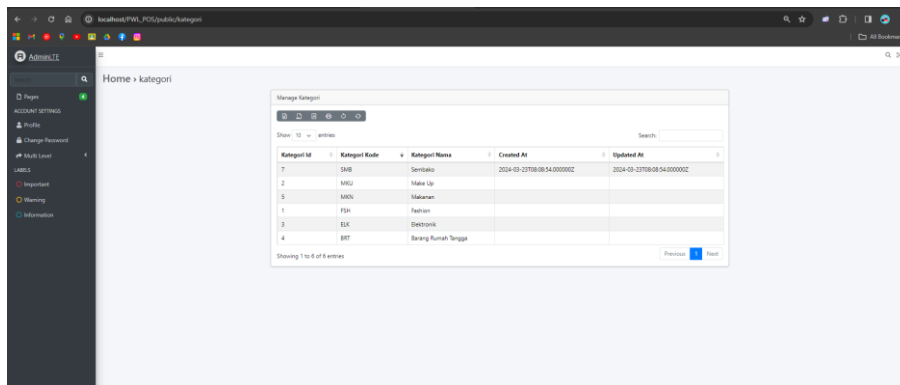


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Tugas Praktikum

1. Tambahkan button Add di halaman manage kategori, yang mengarah ke create kategori baru
Kode:

```
@extends('layout.app')

{{-- Customize layout sections --}}

@section('subtitle', 'kategori')
@section('content_header_title', 'Home')
@section('content_header_subtitle', 'kategori')

@section('content')
    <div class="container">
        <div class="card">
            <div class="card-header">Manage Kategori
                <a href="{{ url('/kategori/create') }}" class="btn btn-primary float-right">Tambah Kategori</a>
            </div>
            <div class="card-body">
                {{ $dataTable->table() }}
            </div>
        </div>
    </div>
@endsection

@push('scripts')
    {{ $dataTable->scripts() }}
@endpush
```

Output:

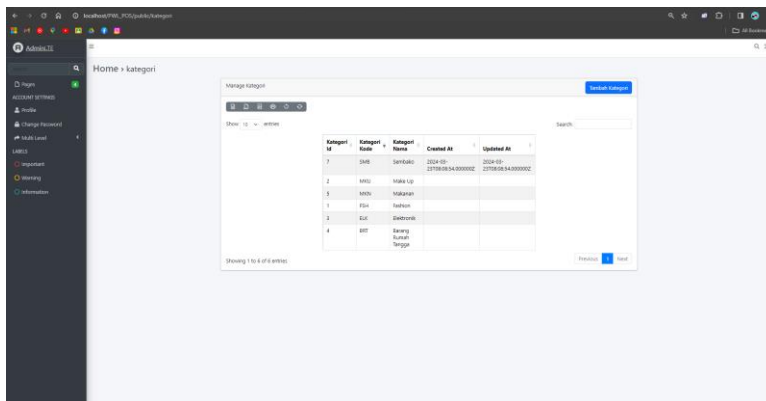


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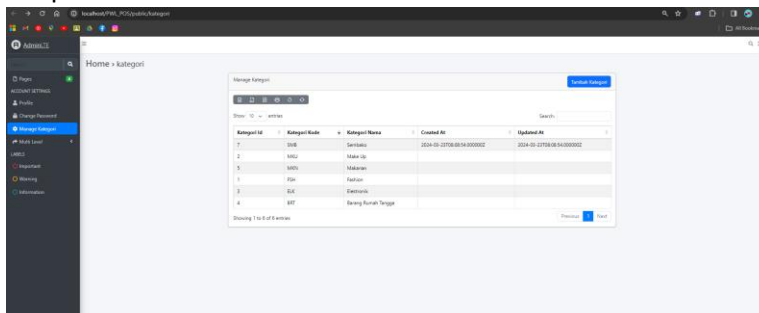


2. Tambahkan menu untuk halaman manage kategori, di daftar menu navbar
Kode:

Menambahkan kode dibawah ini pada file config/adminlte.php

```
[  
    'text' => 'Manage Kategori',  
    'url' => 'kategori',  
    'icon' => 'fas fa-fw fa-cog'  
],
```

Output:



3. Tambahkan action edit di databables dan buat halaman edit serta controllernya
Kode:

- a. Action edit databables

```
public function dataTable(QueryBuilder $query): EloquentDataTable  
{  
    return (new EloquentDataTable($query))  
        ->setRowId('id')  
        ->addColumn('action', function ($row){  
            $editButton = '<a href = "' . route('kategori.edit',  
                $row->kategori_id) . '" class = "btn btn-primary  
                btn-sm"><i class = "fas fa-edit"></i></a><nbsp</a>';  
        } );  
}
```



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Menambah kolom action

```
0 references | 0 overrides  
public function getColumns(): array  
{  
    return [  
        Column::make('kategori_id'),  
        Column::make('kategori_kode'),  
        Column::make('kategori_nama'),  
        Column::make('created_at'),  
        Column::make('updated_at'),  
        Column::make('action'),  
    ];  
}
```

b. Controller edit

```
0 references | 0 overrides  
public function edit($id){  
    $kategori = KategoriModel::find($id);  
    return view('kategori.edit', compact('kategori'));  
}
```

c. View edit

```
@extends('layout.app')  
  
@section('title', 'Edit Kategori')  
  
@section('content')  
    <div class="container">  
        <div class="row">  
            <div class="col-md-12">  
                <h1>Edit Kategori</h1>  
                <form action="{{ route('kategori.update',  
                    $kategori->kategori_id) }}" method="POST">  
                    @csrf  
                    @method('PUT')  
                    <div class="form-group">  
                        <label for="kategori_kode">Kode Kategori</label>  
                        <input type="text" class="form-control" id="kategori_kode" name="kategori_kode" value="{{ $kategori->kategori_kode }}">  
                    </div>  
                    <div class="form-group">  
                        <label for="kategori_nama">Nama Kategori</label>  
                        <input type="text" class="form-control" id="kategori_nama" name="kategori_nama" value="{{ $kategori->kategori_nama }}">  
                    </div>  
                    <button type="submit" class="btn btn-primary">Simpan Perubahan</button>  
                </form>  
            </div>  
        </div>  
    </div>  
@endsection
```

d. Route

```
Route::get('/kategori/edit/{id}', [KategoriController::class, 'edit'])  
->name('kategori.edit');
```

Output:

Tampilan action edit

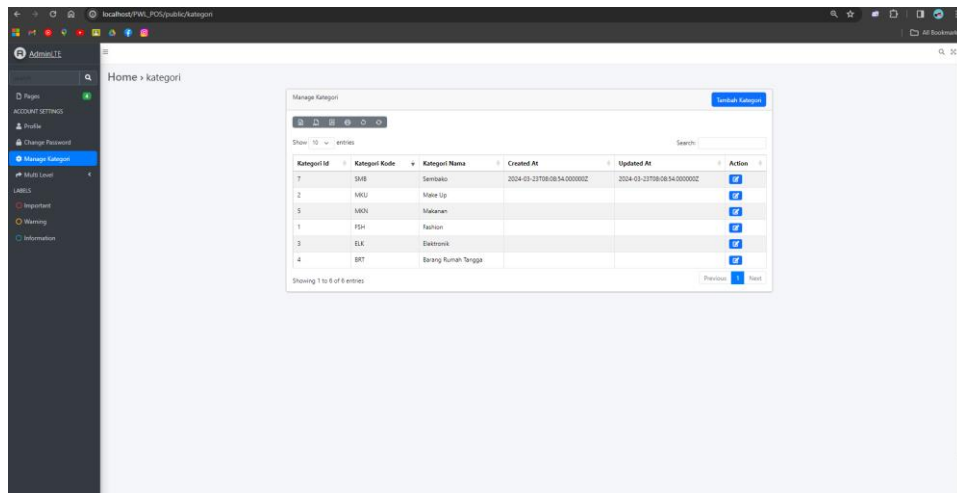


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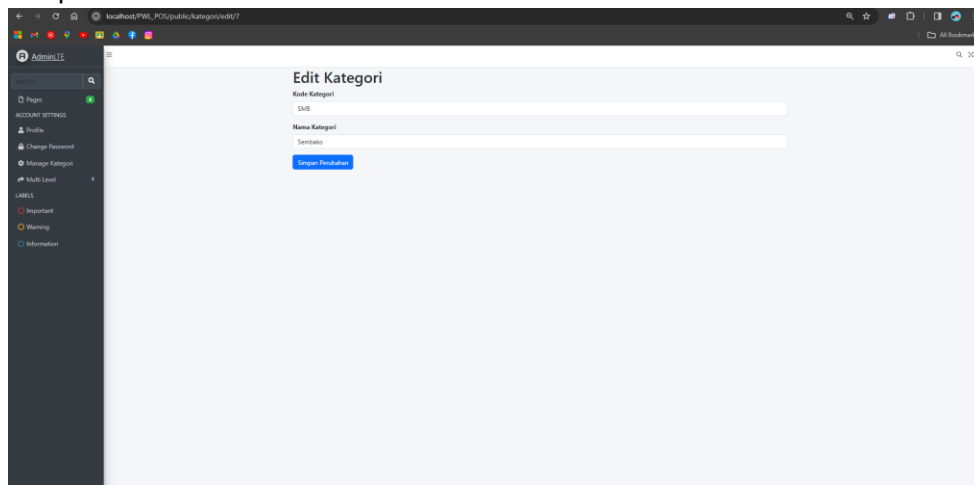
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Tampilan ketika icon edit di tekan



4. Tambahkan action delete di databables serta controllernya
Kode:

- a. Action delete

```
return (new EloquentDataTable($query))
->setRowId('id')
->addColumn('action', function ($row) {
    $editButton = '<a href="'. route('kategori.edit',
    $row->kategori_id) . '" class="btn btn-primary btn-sm"><i
    class="fas fa-edit"></i> </a>&nbsp;';

    $deleteButton = '<a href="'. route('kategori.delete',
    $row->kategori_id) . '" class="btn btn-danger btn-sm"
    onclick="return confirm(\''Apakah Anda yakin ingin menghapus
    kategori ini?\'")><i class="fa fa-trash"></i></a>';

    return $editButton . ' ' . $deleteButton;
});
```



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b. Controller

```
public function delete($id)
{
    $kategori = KategoriModel::find($id);
    if (!$kategori) {
        abort(404);
    }

    $kategori->delete();

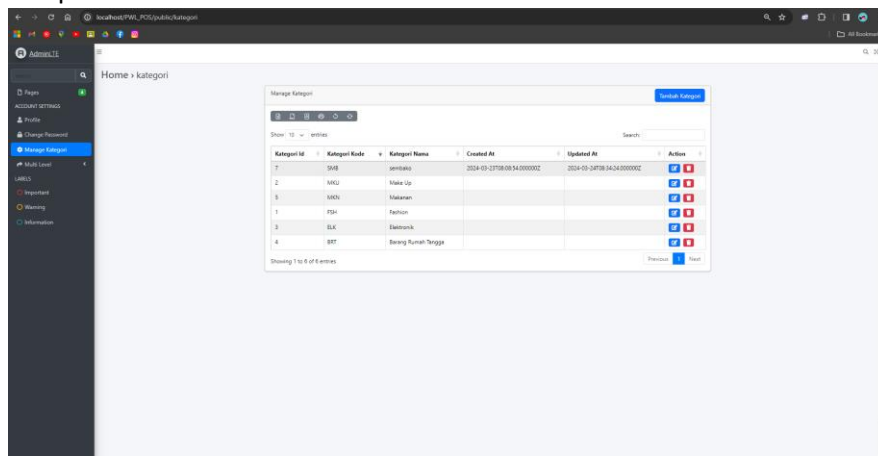
    return redirect()->route('kategori.index')->with('success', 'Kategori
    berhasil dihapus');
}
```

c. Route

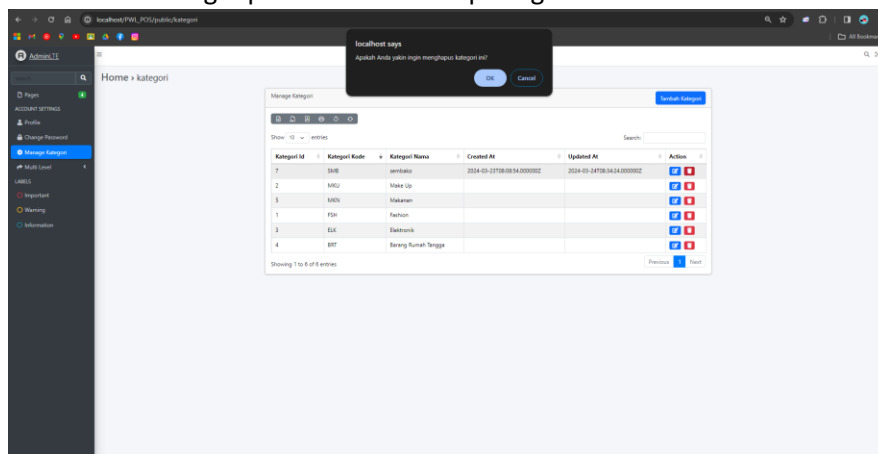
```
Route::get('/kategori/delete/{id}', [KategoriController::class, 'delete'])
->name('kategori.delete');
```

Output:

Tampilan action delete



Ketika akan menghapus data akan ada peringatan





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Data berhasil dihapus

