

PEMROGRAMAN WEB LANJUT

JOBSHEET 5

BLADE VIEW, WEB TEMPLATING(Admin LTE), DATATABLES

Praktikum 1 – Integrasi Laravel dengan Admin Lte3

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

```
composer require jeroennoten/laravel-adminlte
```

⇒ Source code

```
PS D:\laragon\www\Pemrograman_Web_Lanjut_2025\Minggu 5 (PWL_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 (v3.15.0)
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 (v3.15.0)
  - Installing almasaeed2010/adminlte (v3.2.0): Extracting archive
  - Installing jeroennoten/laravel-adminlte (v3.15.0): 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

82 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].

Found 1 security vulnerability advisory affecting 1 package.
Run "composer audit" for a full list of advisories.
Using version ^3.15 for jeroennoten/laravel-adminlte
```

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

```
php artisan adminlte:install
```

⇒ Source code

```
PS D:\laragon\www\Pemrograman_Web_Lanjut_2025\Minggu 5 (PWL_POS)> php artisan adminlte:install
AdminLTE assets files published successfully
Configuration file published successfully
Translation files published successfully
The installation is complete.
```

Perintah di atas akan meng-install:

- **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`

```
() composer.json > ...
1  {
2      "name": "laravel/laravel",
3      "type": "project",
4      "description": "The skeleton application for the Laravel framework.",
5      "keywords": ["laravel", "framework"],
6      "license": "MIT",
7      "require": {
8          "php": "^8.1",
9          "guzzlehttp/guzzle": "^7.2",
10         "jeroennoten/laravel-adminlte": "^3.9",
11         "laravel/framework": "^10.10",
12         "laravel/sanctum": "^3.3",
13         "laravel/tinker": "^2.8"
14     },
15     "require-dev": {
16         "fakerphp/faker": "^1.9.1",
17         "laravel/pint": "^1.0",
18         "laravel/sail": "^1.18",
19         "mockery/mockery": "^1.4.4",
20         "nunomaduro/collision": "^7.0",
21         "phpunit/phpunit": "^10.1",
22         "spatie/laravel-ignition": "^2.0"
23     },
24     "autoload": {
25         "psr-4": {
```

⇒ Composer.json

```
() composer.json > ...
1  {
2      "name": "laravel/laravel",
3      "type": "project",
4      "description": "The skeleton application for the Laravel framework.",
5      "keywords": ["laravel", "framework"],
6      "license": "MIT",
7      "require": {
8          "php": "^8.1",
9          "guzzlehttp/guzzle": "^7.2",
10         "jeroennoten/laravel-adminlte": "^3.15",
11         "laravel/framework": "^10.10",
12         "laravel/sanctum": "^3.3",
13         "laravel/tinker": "^2.8"
14     },
15     "require-dev": {
16         "fakerphp/faker": "^1.9.1",
17         "laravel/pint": "^1.0",
18         "laravel/sail": "^1.18",
19         "mockery/mockery": "^1.4.4",
20         "nunomaduro/collision": "^7.0",
21         "phpunit/phpunit": "^10.1",
22         "spatie/laravel-ignition": "^2.0"
23     },
24     "autoload": {
25         "psr-4": {
26             "App\\": "app/",
27             "Database\\Factories\\": "database/factories/",
28             "Database\\Seeders\\": "database/seeders/"
29         }
30     },
31     "autoload-dev": {
```

3. Buat file resources/views/layout/app.blade.php. Isi dengan kode berikut.

⇒ Source code

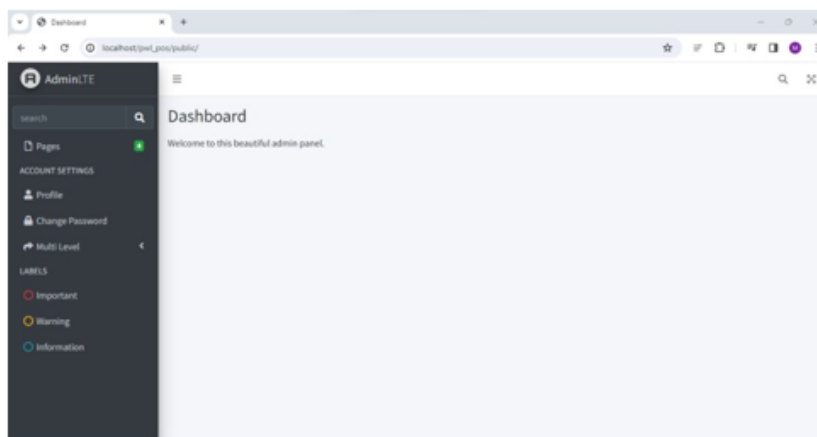
```
1 @extends('adminlte::page')
2
3 {{-- Extend and customize the browser title --}}
4
5 @section('title')
6     {{ config('adminlte.title') }}
7     @hasSection('subtitle') | @yield('subtitle') @endif
8 @stop
9
10 {{-- Extend and customize the page content header --}}
11 @section('content_header')
12     @hasSection('content_header_title')
13         <h1 class="text-muted">
14             @yield('content_header_title')
15
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
28 @section('content')
29     @yield('content_body')
30 @stop
31
32 {{-- Create a common footer --}}
33
34 @section('footer')
35     <div class="float-right">
36         Version: {{ config('app.version', '1.0.0') }}
37     </div>
38
39     <strong>
40         <a href="{{ config('app.company_url', '#') }}">
41             {{ config('app.company_name', 'My company') }}
42         </a>
43     </strong>
44 @stop
45
46 {{-- Add common Javascript/Jquery code --}}
47
48 @push('js')
49 <script>
50
51     $(document).ready(function() {
52         // Add your common script logic here...
53     });
54 </script>
55 @endpush
56
57 {{-- Add common CSS customizations --}}
58
59 @push('css')
60 <style type="text/css">
61
62     {{-- You can add AdminLTE customizations here --}}
63     /*
64     .card-header {          border-bottom: none;
65     }
66     .card-title {          font-weight: 600;
67     }
68     */
69 </style>
70 @endpush
```

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

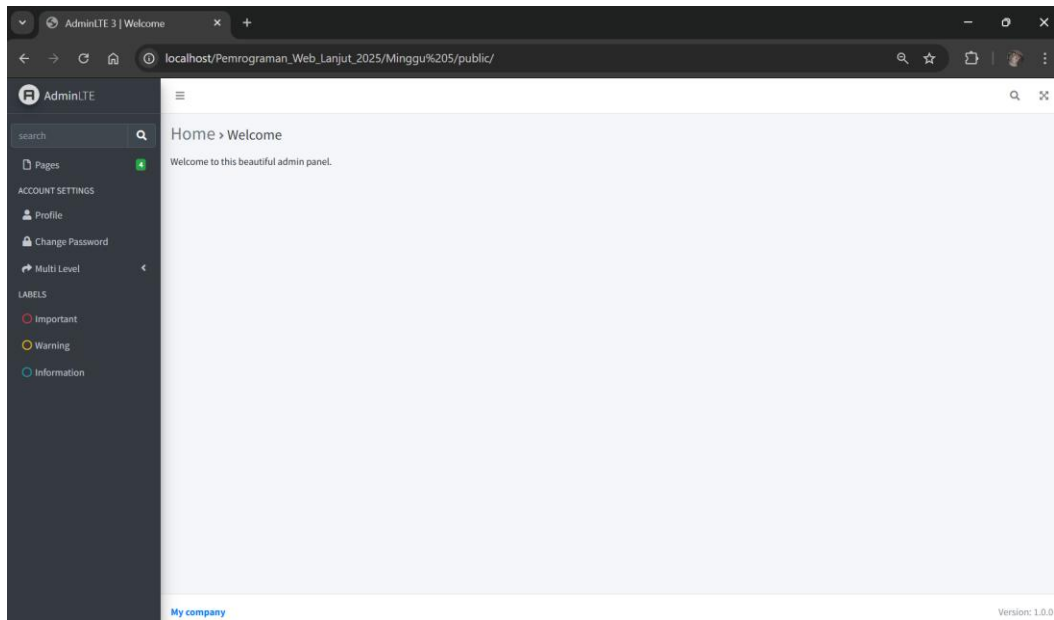
⇒ Source code

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

5. Kembali ke browser, menuju ke halaman awal.



⇒ Halaman browser



Praktikum 2 - Integrasi dengan DataTables

1. Install Laravel DataTables

```
composer require laravel/ui --dev
```

```
composer require yajra/laravel-datatables:^10.0
```

⇒ Source code

```
P5 D:\laragon\www\Pemrograman_Web_Lanjut_2025\Minggu 5 (PWL_P05)> composer require laravel/ui --dev
laravel/ui is currently present in the require key and you ran the command with the --dev flag, which will move it to the require-dev key.
Do you want to move this requirement? [no]? no
Do you want to re-run the command without --dev? [yes]? yes
./composer.json has been updated
Running composer update laravel/ui
Loading composer repositories with package information
Updating dependencies
Nothing to modify in lock file
Writing lock file
Installing dependencies from lock file (including require-dev)
Nothing to install, update or remove
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

82 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].

Found 1 security vulnerability advisory affecting 1 package.
Run "composer audit" for a full list of advisories.
Using version ^4.6 for laravel/ui
```

```

PS D:\laragon\www\Pemrograman Web Lanjut 2025\Minggu 5 (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/constrai
./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 (0.20.2)
- Locking yajra/laravel-datatables (v10.0.0)
- Locking yajra/laravel-datatables-buttons (v10.0.9)
- 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 (0.20.2)
- Downloading yajra/laravel-datatables-fractal (v10.0.0)
- Downloading yajra/laravel-datatables-editor (v1.25.4)
- Downloading yajra/laravel-datatables-buttons (v10.0.9)
- 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 (0.20.2): 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 (v10.0.9): 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

87 packages you are using are looking for funding.
Use the `composer fund` command to find out more!

```

2. Pastikan nodejs sudah terinstall, dengan perintah `npm -v`.

Jika belum install nodejs package manager dari <https://nodejs.org/dist/v20.11.1/node-v20.11.1-x64.msi>

Npm digunakan untuk manajemen package javascript.

⇒ Source code

```

PS D:\laragon\www\Pemrograman Web Lanjut 2025\Minggu 5 (PWL_POS)> npm -v
10.9.2

```

3. Install Laravel DataTables Vite dan sass

```
npm i laravel-datatables-vite --
```

```
save-dev npm install -D sass
```

⇒ Source code

```

PS D:\laragon\www\Pemrograman_Web_Lanjut_2025\Minggu 5 (PWL_POS)> npm i laravel-datatables-vite --save-dev

added 9 packages, and audited 63 packages in 4s

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

2 moderate severity vulnerabilities

To address all issues (including breaking changes), run:
  npm audit fix --force

Run `npm audit` for details.

```

```

PS D:\laragon\www\Pemrograman_Web_Lanjut_2025\Minggu 5 (PWL_POS)> npm install -D sass

up to date, audited 63 packages in 1s

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

2 moderate severity vulnerabilities

To address all issues (including breaking changes), run:
  npm audit fix --force

Run `npm audit` for details.

```

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

```

⇒ Source code

```

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

```

5. Buatlah file resources/sass/app.scss

```

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

```

⇒ Source code

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

6. Jalankan dengan `npm run dev`

```
C:\laragon\www\pwl_pos>npm run dev
> dev
> vite

VITE v5.1.5 ready in 250 ms
→ Local: http://localhost:5173/
→ Network: use --host to expose
→ press h + enter to show help

LARAVEL v10.46.0 plugin v1.0.2
→ APP_URL: http://localhost
```

⇒ Source code

```
PS D:\laragon\www\Pemrograman_Web_Lanjut_2025\Minggu 5 (PWL_POS)> npm run dev
> dev
> vite

VITE v5.4.14 ready in 233 ms
→ Local: http://localhost:5173/
→ Network: use --host to expose
→ press h + enter to show help

LARAVEL v10.48.28 plugin v1.2.0
→ APP_URL: http://localhost
```


7. Selanjutnya kita akan buat datatables untuk kategori

`php artisan datatables:make Kategori`

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

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

⇒ Source code

```
PS D:\laragon\www\Pemrograman_Web_Lanjut_2025\Minggu 5 (PWL_POS)> php artisan datatables:make Kategori
```

```
INFO DataTable [D:\laragon\www\Pemrograman_Web_Lanjut_2025\Minggu 5 (PWL_POS)\app\DataTables\KategoriDataTable.php] created successfully.
```

8. Kita edit KategoriDataTable untuk mengatur kolom apasaja yang ingin ditampilkan
Sesuaikan dengan kodeprogram berikut

```
<?php
```

⇒ Source code

```
app > DataTables > KategoriDataTable.php > ...
1  <?php
2
3  namespace App\DataTables;
4
5  use App\Models\KategoriModel;
6  use Illuminate\Database\Eloquent\Builder as QueryBuilder;
7  use Yajra\DataTables\EloquentDataTable;
8  use Yajra\DataTables\Html\Builder as HtmlBuilder;
9  use Yajra\DataTables\Html\Button;
10 use Yajra\DataTables\Html\Column;
11 use Yajra\DataTables\Html\Editor\Editor;
12 use Yajra\DataTables\Html\Editor\Fields;
13 use Yajra\DataTables\Services\DataTable;
14
15 class KategoriDataTable extends DataTable
16 {
17     /**
18      * Build the DataTable class.
19      *
20      * @param QueryBuilder $query Results from query() method.
21      */
22     public function dataTable(QueryBuilder $query): EloquentDataTable
23     {
24         return (new EloquentDataTable($query))
25             ->addColumn('action', 'kategori.action') /*
26             ->setRowId('id');
27     }
28
29     /**
30      * Get the query source of dataTable.
31      */
32     public function query(KategoriModel $model): QueryBuilder
33     {
34         return $model->newQuery();
35     }
36
37     /**
38      * Optional method if you want to use the html builder.
39      */
```

```

40     public function html(): HtmlBuilder
41     {
42         return $this->builder()
43             ->setTableId('kategori-table')
44             ->columns($this->getColumns())
45             ->minifiedAjax()
46             //->dom('Bfrrtip')
47             ->orderBy(1)
48             ->selectStyleSingle()
49             ->buttons([
50                 Button::make('excel'),
51                 Button::make('csv'),
52                 Button::make('pdf'),
53                 Button::make('print'),
54                 Button::make('reset'),
55                 Button::make('reload')
56             ]);
57     }
58
59     /**
60      * Get the dataTable columns definition.
61      */
62     public function getColumns(): array
63     {
64         return [
65             /*      Column::computed('action')
66                 ->exportable(false)
67                 ->printable(false)
68                 ->width(60)
69                 ->addClass('text-center'), */
70             Column::make('kategori_id'),
71             Column::make('kategori_kode'),
72             Column::make('kategori_nama'),
73             Column::make('created_at'),
74             Column::make('updated_at'),
75         ];
76     }
77
78     /**
79      * Get the filename for export.
80      */
81     protected function filename(): string
82     {
83         return 'Kategori_' . date('YmdHis');
84     }
85 }

```

9. Ubah kategori model, sesuaikan seperti berikut

```
app > Models > KategoriModel.php > KategoriModel
1  <?php
2
3  namespace App\Models;
4
5  use Illuminate\Database\Eloquent\Model;
6  use Illuminate\Database\Eloquent\Relations\HasMany;
7
8  class KategoriModel extends Model
9  {
10     protected $table = 'm_kategori';
11     protected $primaryKey = 'kategori_id';
12
13     protected $fillable = ['kategori_kode', 'kategori_nama'];
14
15     public function barang(): HasMany
16     {
17         return $this->hasMany(BarangModel::class, 'barang_id', 'barang_id');
18     }
19 }
```

⇒ Source code

```
app > Models > KategoriModel.php > ...
1  <?php
2
3  namespace App\Models;
4
5  use Illuminate\Database\Eloquent\Model;
6  use Illuminate\Database\Eloquent\Relations\HasMany;
7
8  class KategoriModel extends Model
9  {
10     protected $table = 'm_kategori';
11     protected $primaryKey = 'kategori_id';
12
13     protected $fillable = ['kategori_kode', 'kategori_nama'];
14
15     public function barang(): HasMany
16     {
17         return $this->hasMany(BarangModel::class, 'barang_id', 'barang_id');
18     }
19 }
20
```

10. Ubah Kategori Controller sesuaikan dengan skrip berikut:

app > Http > Controllers > KategoriController.php > KategoriController > index

```
1  <?php
2
3  namespace App\Http\Controllers;
4
5  use Illuminate\Http\Request;
6  use App\DataTables\KategoriDataTable;
7
8  class KategoriController extends Controller
9  {
10     public function index(KategoriDataTable $dataTable)
11     {
12         return $dataTable->render('kategori.index');
13     }
14 }
```

⇒ Source code

```
app > Http > Controllers > KategoriController.php > ...
1  <?php
2
3  namespace App\Http\Controllers;
4
5  use App\DataTables\KategoriDataTable;
6  use Illuminate\Http\Request;
7  use Illuminate\Support\Facades\DB;
8
9
10 class KategoriController extends Controller
11 {
12     public function index(KategoriDataTable $dataTable){
13         return $dataTable->render('kategori.index');
14     }
15 }
16
```

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('layouts.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
23
24
```

⇒ Source code

```
resources > kategori > index.blade.php > ...
1  @extends('layouts.app')
2
3  {{-- Customize layout sections --}}
4  @section('subtitle', 'Kategori')
5  @section('content_header_title', 'Home')
6  @section('content_header_subtitle', 'Kategori')
7
8  @section('content')
9      <div class="container">
10          <div class="card">
11              <div class="card-header">Manage Kategori</div>
12              <div class="card-body">
13                  {{ $dataTable->table() }}
14              </div>
15          </div>
16      </div>
17  @endsection
18
19  @push('scripts')
20      {{ $dataTable->scripts() }}
21  @endpush
22
23
```

12. Pastikan route untuk kategori sudah tersedia

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

⇒ Source code

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

13. Sesuaikan app layout seperti kode berikut

```
@extends('adminlte::page')

{{-- Extend and customize the browser title --}}

@section('title')
    {{ config('adminlte.title') }}
    @hasSection('subtitle') | @yield('subtitle') @endif
@stop

@vite('resources/js/app.js')

{{-- Extend and customize the page content header --}}

@section('content_header')
    @hasSection('content_header_title')
        <h1 class="text-muted">
            @yield('content_header_title')

            @hasSection('content_header_subtitle')
```

⇒ Source code

Menambahkan

```
@stack('scripts')

{{-- Add common CSS customizations --}}

@push('css')

<link
    rel="stylesheet"
    href="https://cdn.datatables.net/2.0.2/css/dataTables.dataTables.css" />
<style type="text/css">
    {{-- You can add AdminLTE customizations here --}}
    /*
    .card-header {
        border-bottom: none;
    }
    .card-title {
        font-weight: 600;
    }
    */
</style>
@endpush
```

14. Menset ViteJs / script type defaults

app > Providers > AppServiceProvider.php > AppServiceProvider > boot

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

⇒ Source code

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

15. Isikan beberapa data ke table kategori

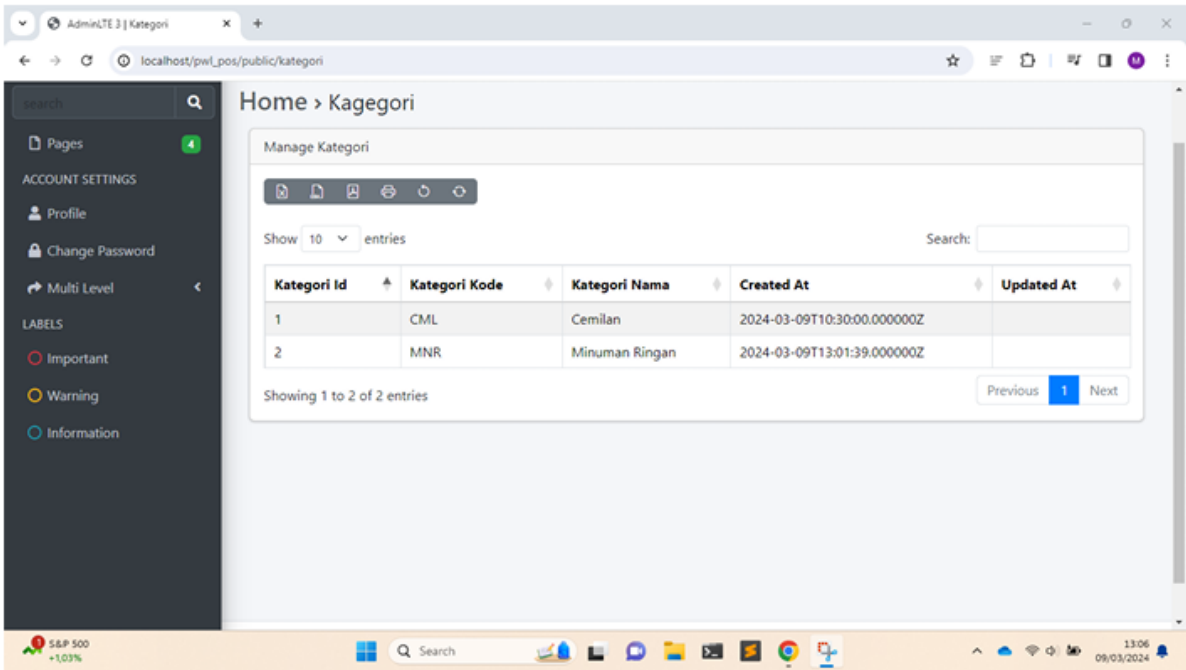
pwl_pos.m_kategori: 2 rows total (approximately)

kategori_id	kategori_kode	kategori_nama	created_at	updated_at
1	CML	Cemilan	2024-03-09 10:30:00	(NULL)
2	MNR	Minuman Ringan	2024-03-09 13:01:39	(NULL)

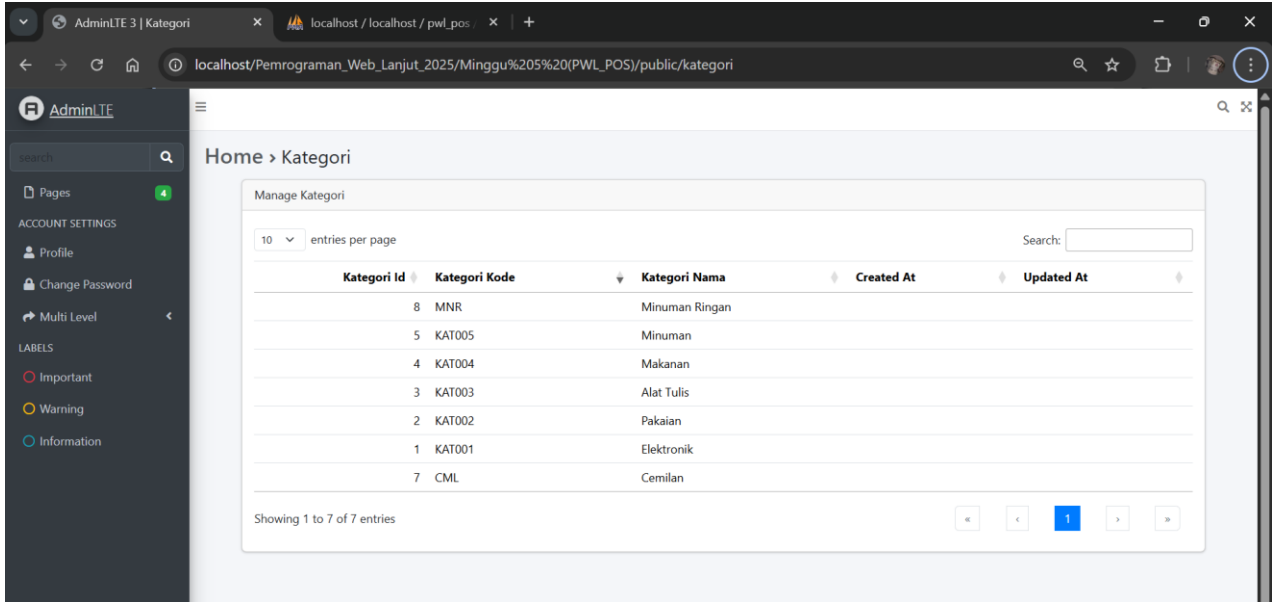
⇒ Database

<input type="checkbox"/>	Edit	Copy	Delete	7 CML	Cemilan	NULL	NULL
<input type="checkbox"/>	Edit	Copy	Delete	8 MNR	Minuman Ringan	NULL	NULL

16. Datatables sudah dapat di load di /kategori



⇒ Halaman Browser



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']);
```

⇒ Source code

```
37
38 Route::get('/kategori/create', [KategoriController::class, 'create']);
39 Route::post('/kategori', [KategoriController::class, 'store']);
40
```

2. Tambahkan dua function berikut dalam KategoriController

app > Http > Controllers > KategoriController.php > KategoriController > store

```
1  <?php
2
3  namespace App\Http\Controllers;
4  use App\Models\KategoriModel;
5  use Illuminate\Http\Request;
6  use App\DataTables\KategoriDataTable;
7
8  class KategoriController extends Controller
9  {
10     public function index(KategoriDataTable $dataTable)
11     {
12         return $dataTable->render('kategori.index');
13     }
14
15     public function create()
16     {
17         return view('kategori.create');
18     }
19
20     public function store(Request $request)
21     {
22         KategoriModel::create([
23             'kategori_kode' => $request->kodeKategori,
24             'kategori_nama' => $request->namaKategori,
25
26         ]);
27         return redirect('/kategori');
28     }
29 }
```

⇒ Source code

```

app > Http > Controllers > KategoriController.php > KategoriController > store
1  <?php
2
3  namespace App\Http\Controllers;
4
5  use App\DataTables\KategoriDataTable;
6  use App\Models\KategoriModel;
7  use Illuminate\Http\Request;
8  use Illuminate\Support\Facades\DB;
9
10
11  class KategoriController extends Controller
12  {
13      public function index(KategoriDataTable $dataTable){
14          return $dataTable->render('kategori.index');
15      }
16
17      public function create(){
18          return view('kategori.create');
19      }
20
21      public function store(Request $request){
22          KategoriModel::create([
23              'kategori_kode' => $request->kodeKategori,
24              'kategori_nama' => $request->namaKategori,
25          ]);
26
27          return redirect('/kategori');
28      }
29
30  }

```

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

```

resources > views > kategori > create.blade.php > ...
1  @extends('layouts.app')
2  {{-- Customize layout sections --}}
3  @section('subtitle', 'Kategori')
4  @section('content_header_title', 'Kategori')
5  @section('content_header_subtitle', 'Create')
6  {{-- Content body: main page content --}}
7  @section('content')
8      <div class="container">
9          <div class="card card-primary">
10             <div class="card-header">
11                 <h3 class="card-title">Buat kategori baru</h3>
12             </div>
13
14             <form method="post" action=" ../kategori">
15                 <div class="card-body">
16                     <div class="form-group">
17                         <label for="kodeKategori">Kode Kategori</label>
18                         <input type="text" class="form-control" id="kodeKategori" name="kodeKategori" placeholder="">
19                     </div>
20                     <div class="form-group">
21                         <label for="namaKategori">Nama Kategori</label>
22                         <input type="text" class="form-control" id="namaKategori" name="namaKategori" placeholder="">
23                     </div>
24                 </div>
25
26                 <div class="card-footer">
27                     <button type="submit" class="btn btn-primary">Submit</button>
28                 </div>
29             </form>
30         </div>
31     </div>
32 @endsection

```

⇒ Source code

```
resources > views > kategori > create.blade.php > ...
1  @extends('layouts.app')
2
3  {{-- Customize layout sections --}}
4  @section('subtitle', 'Kategori')
5  @section('content_header_title', 'Kategori')
6  @section('content_header_subtitle', 'Create')
7
8  {{-- Content body: main page content --}}
9  @section('content')
10
11  <div class="container">
12      <div class="card card-primary">
13          <div class="card-header">
14              <h3 class="card-title">Buat kategori baru</h3>
15          </div>
16
17          <form method="post" action=" ../kategori">
18              <div class="card-body">
19                  <div class="form-group">
20                      <label for="kodeKategori">Kode Kategori</label>
21                      <input type="text" class="form-control" id="kodeKategori" name="kodeKategori" placeholder="Masukkan kode kategori">
22                  </div>
23
24                  <div class="form-group">
25                      <label for="namaKategori">Nama Kategori</label>
26                      <input type="text" class="form-control" id="namaKategori" name="namaKategori" placeholder="Masukkan nama kategori">
27                  </div>
28              </div>
29
30              <div class="card-footer">
31                  <button type="submit" class="btn btn-primary">Submit</button>
32              </div>
33          </form>
34      </div>
35  </div>
36
37  @endsection
```

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

```
app > Http > Middleware > VerifyCsrfToken.php > VerifyCsrfToken > $except
1  <?php
2
3  namespace App\Http\Middleware;
4
5  use Illuminate\Foundation\Http\Middleware\VerifyCsrfToken as Middleware;
6
7  class VerifyCsrfToken extends Middleware
8  {
9      /**
10       * The URIs that should be excluded from CSRF verification.
11       *
12       * @var array<int, string>
13       */
14      protected $except = [
15          '/kategori'
16      ];
17  }
18
```

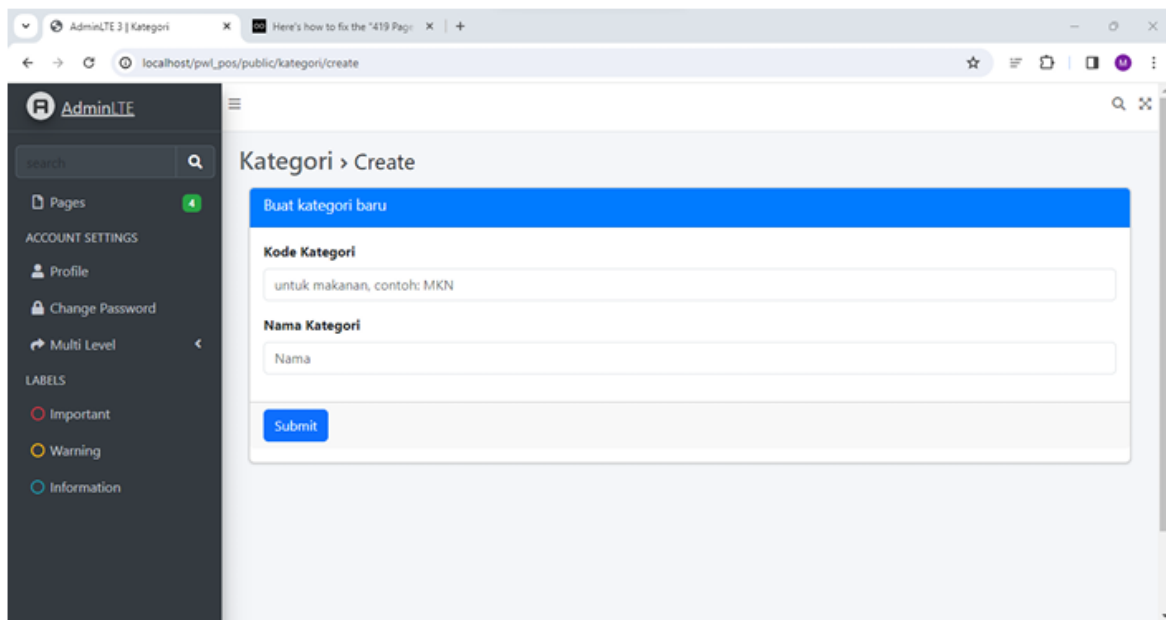
⇒ Source code

```

app > Http > Middleware > VerifyCsrfToken.php > ...
1  <?php
2
3  namespace App\Http\Middleware;
4
5  use Illuminate\Foundation\Http\Middleware\VerifyCsrfToken as Middleware;
6
7  class VerifyCsrfToken extends Middleware
8  {
9      /**
10       * The URIs that should be excluded from CSRF verification.
11       *
12       * @var array<int, string>
13       */
14       protected $except = [
15           '/kategori'
16       ];
17  }
18

```

5. Akses kategori/create



AdminLTE 3 | Kategori

search

PAGES 4

ACCOUNT SETTINGS

Profile

Change Password

Multi Level

LABELS

Important

Warning

Information

Kategori > Create

Buat kategori baru

Kode Kategori

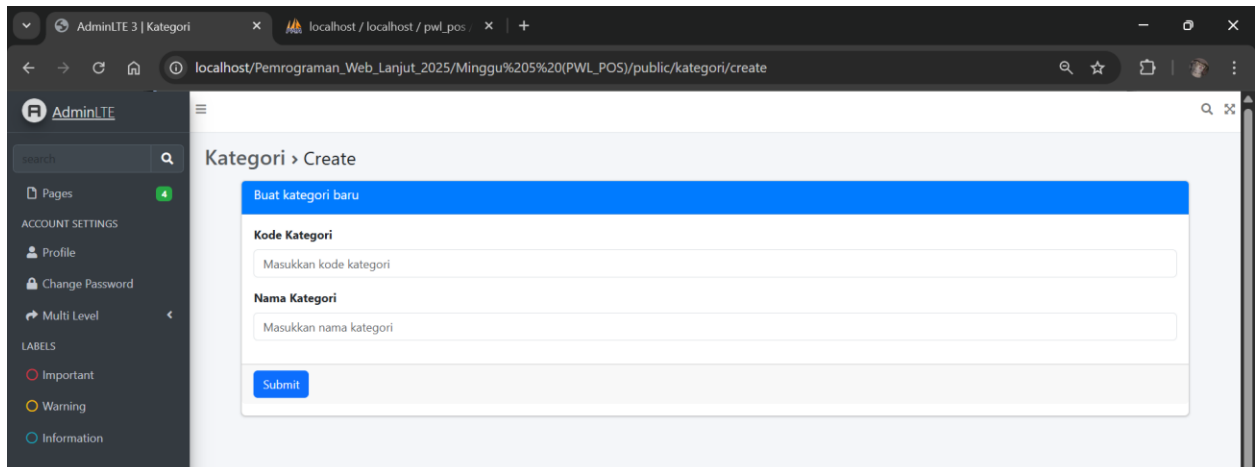
untuk makanan, contoh: MKN

Nama Kategori

Nama

Submit

⇒ Halaman Browser



AdminLTE 3 | Kategori

search

PAGES 4

ACCOUNT SETTINGS

Profile

Change Password

Multi Level

LABELS

Important

Warning

Information

Kategori > Create

Buat kategori baru

Kode Kategori

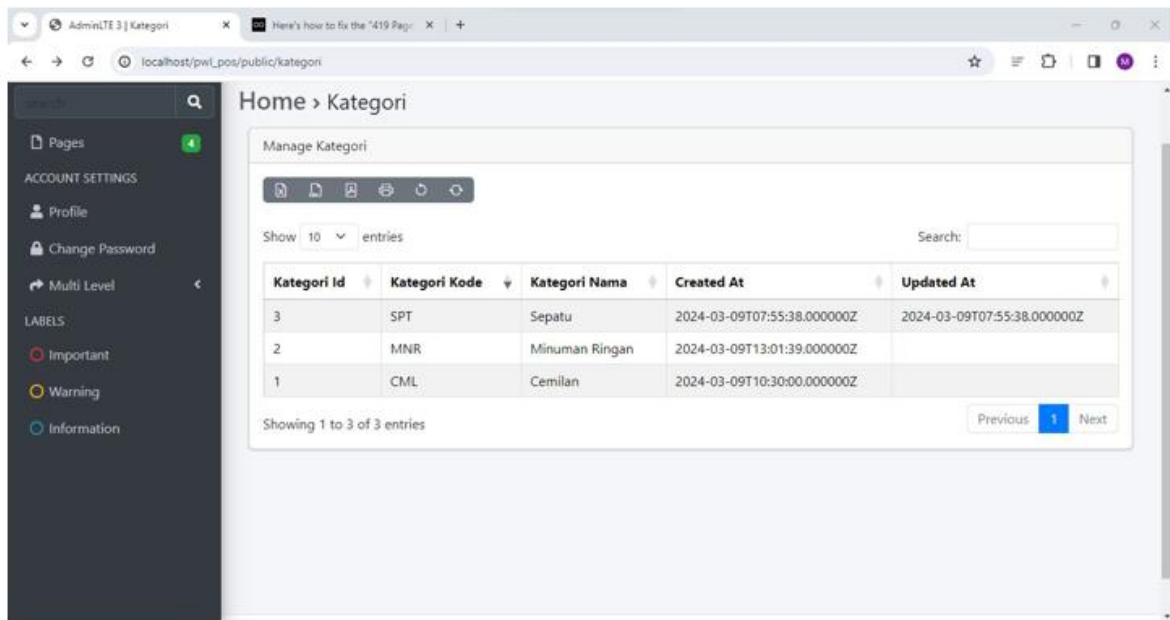
Masukkan kode kategori

Nama Kategori

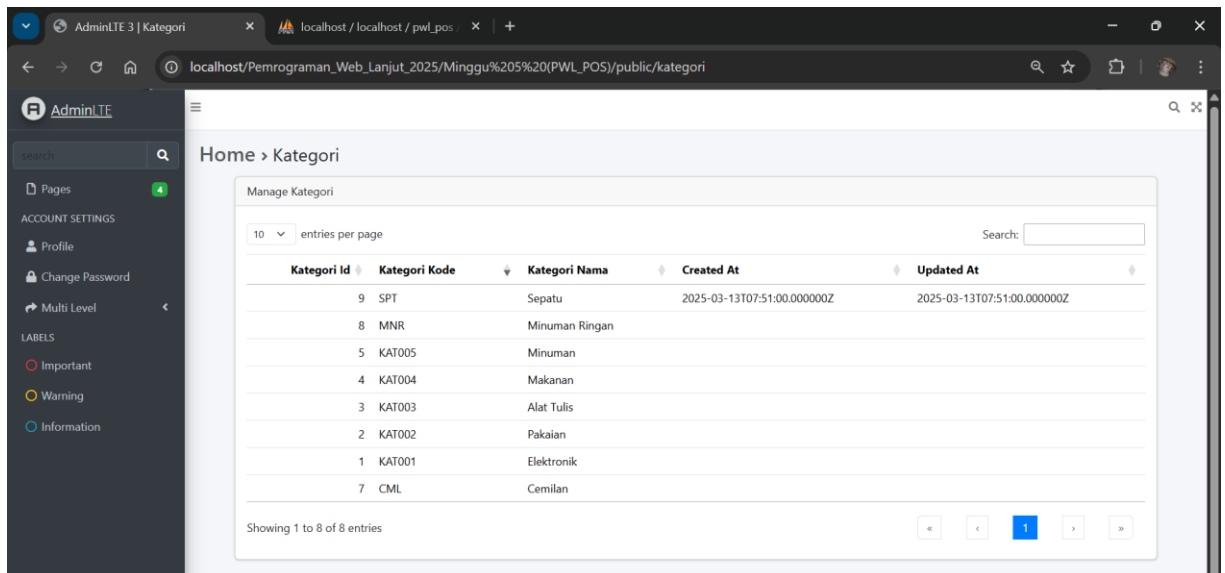
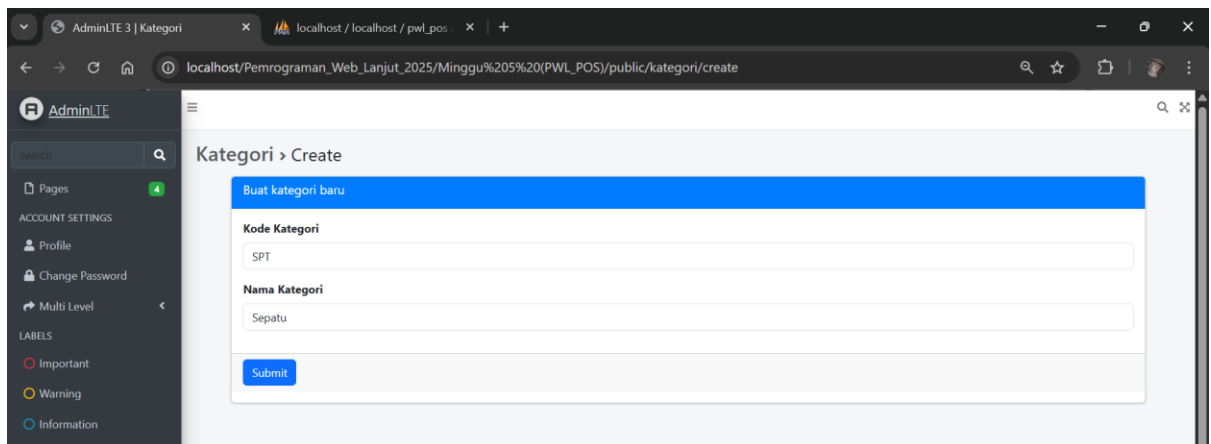
Masukkan nama kategori

Submit

6. Halaman kategori



⇒ Halaman Browser



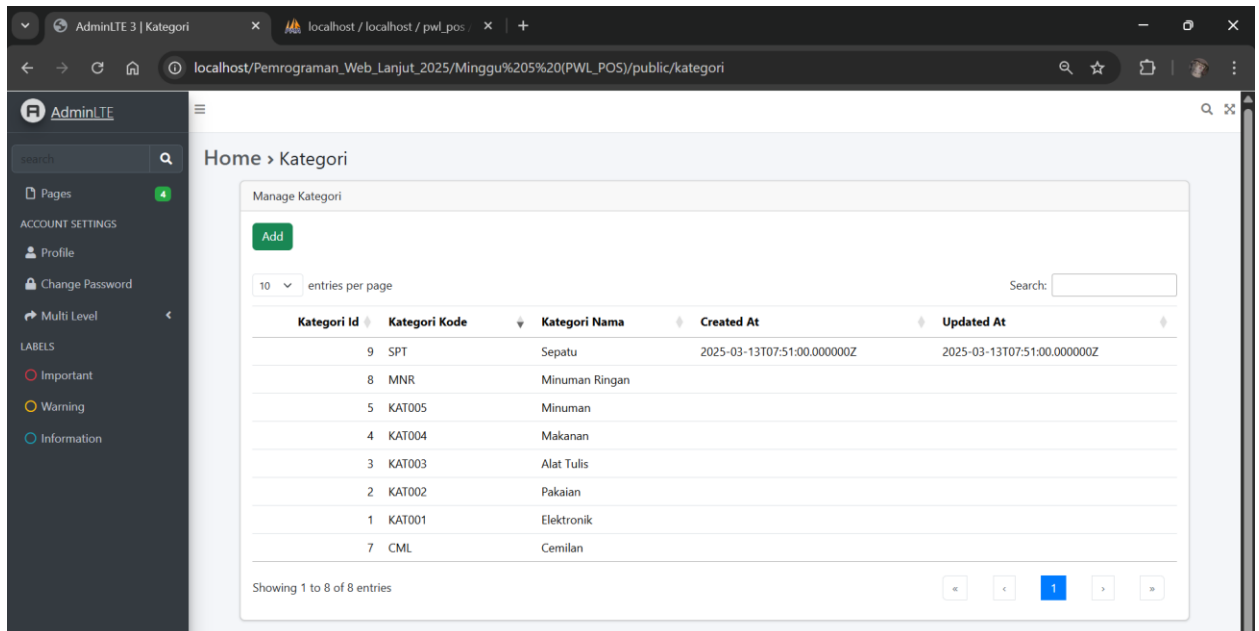
Tugas Praktikum

1. Tambahkan button Add di halam manage kategori, yang mengarah ke create kategori baru
Konfigurasi pada file index.blade.php yang berada pada folder kategori, dengan menambahkan link button seperti pada gambar dibawah.

Source code;

```
resources > views > kategori > index.blade.php > ...
1  @extends('layouts.app')
2
3  {{-- Customize layout sections --}}
4  @section('subtitle', 'Kategori')
5  @section('content_header_title', 'Home')
6  @section('content_header_subtitle', 'Kategori')
7
8  @section('content')
9      <div class="container">
10         <div class="card">
11             <div class="card-header">Manage Kategori</div>
12             <div class="card-body">
13                 <a href="{{ url('/kategori/create') }}" class="btn btn-success">Add</a>
14                 <br><br>
15                 {!! $dataTable->table() !!}
16             </div>
17         </div>
18     </div>
19 @endsection
20
21 @push('scripts')
22     {!! $dataTable->scripts() !!}
23 @endpush
24
```

Halaman Browser



The screenshot shows a web browser window with the URL `localhost/Pemrograman_Web_Lanjut_2025/Minggu%205%20(PWL_POS)/public/kategori`. The page displays a 'Manage Kategori' interface. On the left, there is a sidebar with 'AdminLTE' and a search bar. The main content area shows a table with 8 entries. At the top left of the table, there is a green 'Add' button. The table has columns for 'Kategori Id', 'Kategori Kode', 'Kategori Nama', 'Created At', and 'Updated At'.

Kategori Id	Kategori Kode	Kategori Nama	Created At	Updated At
9	SPT	Sepatu	2025-03-13T07:51:00.000000Z	2025-03-13T07:51:00.000000Z
8	MNR	Minuman Ringan		
5	KAT005	Minuman		
4	KAT004	Makanan		
3	KAT003	Alat Tulis		
2	KAT002	Pakaian		
1	KAT001	Elektronik		
7	CML	Cemilan		

Showing 1 to 8 of 8 entries

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

```
301     'menu' => [  
302         // Navbar items:  
303         [  
304             'type' => 'navbar-search',  
305             'text' => 'search',  
306             'topnav_right' => true,  
307         ],  
308         [  
309             'type' => 'fullscreen-widget',  
310             'topnav_right' => true,  
311         ],  
312         [  
313             'text' => 'Manage Kategori',  
314             'url' => 'kategori',  
315             'icon' => 'fas fa-list',  
316             'topnav' => true, // Menjadikan menu ini muncul di navbar  
317         ],  
318     ],  
319     // Sidebar items:  
320     [  
321         'type' => 'sidebar-menu-search',  
322         'text' => 'search',  
323     ],  
324     [  
325         'text' => 'blog',  
326         'url' => 'admin/blog',  
327         'can' => 'manage-blog',  
328     ],  
329     [  
330         'text' => 'pages',  
331         'url' => 'admin/pages',  
332         'icon' => 'far fa-fw fa-file',  
333         'label' => 4,  
334         'label_color' => 'success',  
335     ],  
336     ['header' => 'account_settings'],  
337     [  
338         'text' => 'profile',  
339         'url' => 'admin/settings',  
340         'icon' => 'fas fa-fw fa-user',  
341     ],  
342     [  
343         'text' => 'change_password',  
344         'url' => 'admin/settings',  
345         'icon' => 'fas fa-fw fa-lock',  
346     ],  
347     [  
348         'text' => 'Manage Kategori',  
349         'url' => 'kategori',  
350         'icon' => 'fas fa-list',  
351     ],
```

3. Tambahkan action edit di datatables dan buat halaman edit serta controllernya konfigurasi file kategoriDataTable terlebih dahulu pada folder DataTable. Lalu, cari fungsi bernama dataTable dan getColumn, lalu konfigurasi seperti dibawah ini.

```
public function dataTable(QueryBuilder $query): EloquentDataTable
{
    return (new EloquentDataTable($query))
        ->addColumn('action', function ($id) {
            $edit = route('kategori.edit', $id);
            return '<a href="' . $edit . '" class="btn btn-warning btn-sm">Edit</a>';
        })
        ->setRowId('id');
}
```

Dan

```
public function getColumns(): array
{
    return [
        /* Column::computed('action')
        ->exportable(false)
        ->printable(false)
        ->width(60)
        ->addClass('text-center'), */

        Column::make('kategori_id'),
        Column::make('kategori_kode'),
        Column::make('kategori_nama'),
        Column::make('created_at'),
        Column::make('updated_at'),

        Column::computed('action')
            ->exportable(false)
            ->printable(false)
            ->width(100)
            ->addClass('text-center'),
    ];
}
```

konfigurasi kategoriControllernya dengan menambahkan fungsi edit dan update


```

app > Http > Controllers > KategoriController.php > ...
1  <?php
2
3  namespace App\Http\Controllers;
4
5  use App\DataTables\KategoriDataTable;
6  use App\Models\KategoriModel;
7  use Illuminate\Http\Request;
8  use Illuminate\Support\Facades\DB;
9
10
11 class KategoriController extends Controller
12 {
13     public function index(KategoriDataTable $dataTable){
14         return $dataTable->render('kategori.index');
15     }
16
17     public function create(){
18         return view('kategori.create');
19     }
20
21     public function store(Request $request){
22         KategoriModel::create([
23             'kategori_kode' => $request->kodeKategori,
24             'kategori_nama' => $request->namaKategori,
25         ]);
26
27         return redirect('/kategori');
28     }
29
30     public function edit($id){
31         $data = KategoriModel::find($id);
32         return view('kategori.edit', ['kategori' => $data]);
33     }
34
35     public function update(Request $request, $id){
36         KategoriModel::where('kategori_id', $id)->update([
37             'kategori_kode' => $request->kodeKategori,
38             'kategori_nama' => $request->namaKategori,
39         ]);
40     }

```

tambahkan route pada web.php nya agar kategoriController nya bisa diakses seperti pada gambar dibawah ini.

```

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

```

Menambahkan file edit.blade.php

```

resources > views > kategori > edit.blade.php > ...
1  @extends('layout.app')
2
3  @section('content')
4      <div class="container-fluid">
5          <div class="row">
6              <div class="col-md-12">
7                  <div class="card card-primary">
8                      <div class="card-header">
9                          <h3 class="card-title">Edit Kategori</h3>
10                     </div>
11                     <form action="{{ route('kategori.update', $kategori->kategori_id) }}" method="POST">
12                         @csrf
13                         @method('PUT')
14                         <div class="card-body">
15                             <div class="form-group">
16                                 <label for="kodeKategori">Kode Kategori</label>
17                                 <input type="text" class="form-control" name="kodeKategori" id="kodeKategori" value="{{ $kategori->kategori_kode }}">
18                             </div>
19                             <div class="form-group">
20                                 <label for="namaKategori">Nama Kategori</label>
21                                 <input type="text" class="form-control" name="namaKategori" id="namaKategori" value="{{ $kategori->kategori_nama }}">
22                             </div>
23                         </div>
24                         <div class="card-footer">
25                             <button type="submit" class="btn btn-primary">Simpan</button>
26                         </div>
27                     </form>
28                 </div>
29             </div>
30         </div>
31     </div>
32 @endsection
33

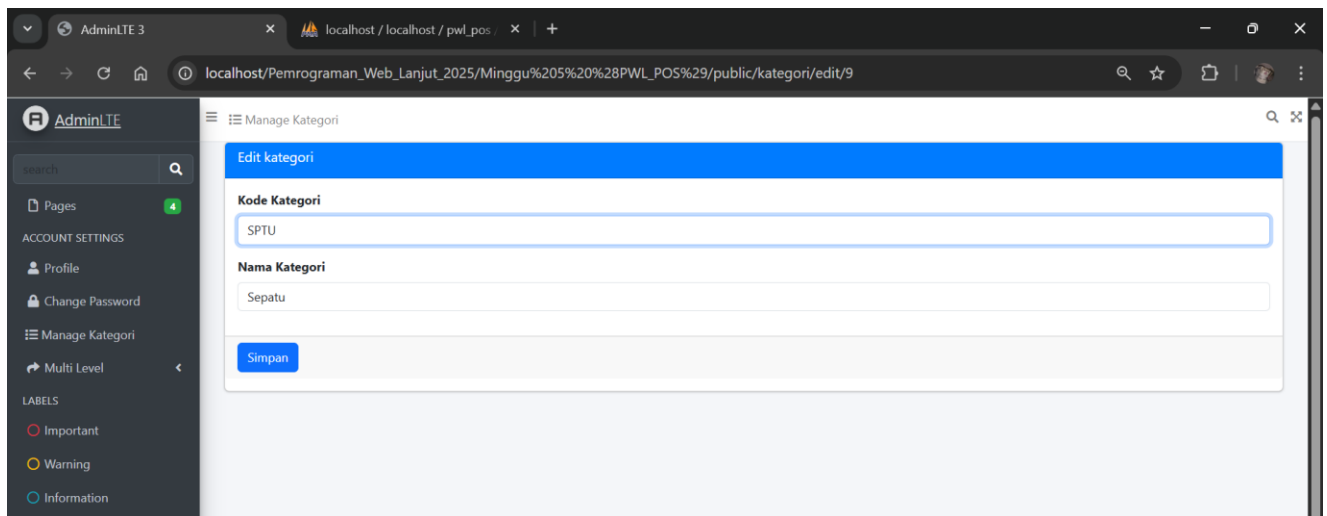
```

Halaman Browser

The screenshot shows a web browser displaying the 'Manage Kategori' page. The page has a sidebar with 'AdminLTE' and a main content area. The main content area shows a table with 8 entries of categories. The table has columns for 'Kategori Id', 'Kategori Kode', 'Kategori Nama', 'Created At', 'Updated At', and 'Action'. The 'Action' column contains 'Edit' buttons for each entry.

Kategori Id	Kategori Kode	Kategori Nama	Created At	Updated At	Action
9	SPT	Sepatu	2025-03-13T07:51:00.000000Z	2025-03-13T07:51:00.000000Z	Edit
8	MNR	Minuman Ringan			Edit
5	KAT005	Minuman			Edit
4	KAT004	Makanan			Edit
3	KAT003	Alat Tulis			Edit
2	KAT002	Pakaian			Edit
1	KAT001	Elektronik			Edit
7	CML	Cemilan			Edit

Showing 1 to 8 of 8 entries



Kategori Id	Kategori Kode	Kategori Nama	Created At	Updated At	Action
9	SPTU	Sepatu	2025-03-13T07:51:00.000000Z	2025-03-13T08:39:05.000000Z	Edit

4. Tambahkan action delete di datatables serta controllernya
Untuk menambahkan action delete, konfigurasi pada kategoriDataTable seperti pada action edit, hanya menambahkan 1 item lagi yaitu untuk delete.

```
public function dataTable(QueryBuilder $query): EloquentDataTable
{
    return (new EloquentDataTable($query))
        ->addColumn('action', function ($id) {
            $edit = route('kategori.edit', $id);
            $delete = route('kategori.delete', $id);

            return '<a href="' . $edit . '" class="btn btn-warning btn-sm">Edit</a>
                <a href="' . $delete . '" class="btn btn-danger btn-sm">Delete</a>';
        })
        ->setRowId('id');
}
```

```

public function getColumns(): array
{
    return [
        /* Column::computed('action')
        ->exportable(false)
        ->printable(false)
        ->width(60)
        ->addClass('text-center'), */

        Column::make('kategori_id'),
        Column::make('kategori_kode'),
        Column::make('kategori_nama'),
        Column::make('created_at'),
        Column::make('updated_at'),

        Column::computed('action')
        ->exportable(false)
        ->printable(false)
        ->width(140)
        ->addClass('text-center'),

    ];
}

```

Tambah function delete

```

public function delete($id){
    KategoriModel::where('kategori_id', $id)->delete();
    return redirect('/kategori');
}

```

Routing

```

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

```

Halaman Browser

The screenshot shows a web application interface for managing categories. The sidebar on the left contains navigation links: AdminLTE, Pages, ACCOUNT SETTINGS, Profile, Change Password, Manage Kategori (highlighted), Multi Level, and LABELS. The main content area is titled 'Manage Kategori' and includes an 'Add' button, a search bar, and a table of categories. The table has 8 entries, each with 'Edit' and 'Delete' buttons. The page also includes pagination controls showing 1 to 8 of 8 entries.

Kategori Id	Kategori Kode	Kategori Nama	Created At	Updated At	Action
9	SPTU	Sepatu	2025-03-13T07:51:00.000000Z	2025-03-13T08:39:05.000000Z	Edit Delete
8	MNR	Minuman Ringan			Edit Delete
5	KAT005	Minuman			Edit Delete
4	KAT004	Makanan			Edit Delete
3	KAT003	Alat Tulis			Edit Delete
2	KAT002	Pakaian			Edit Delete
1	KAT001	Elektronik			Edit Delete
7	CML	Cemilan			Edit Delete

Ketika melakukan delete

