

PEMROGRAMAN WEB LANJUT

“Blade View, Web Templating (AdminLTE), Datatables”



Kelas : TI-2H

Disusun Oleh :

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PROGRAM STUDI D-IV TEKNIK INFORMATIKA

JURUSAN TEKNOLOGI INFORMASI

POLITEKNIK NEGERI MALANG

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Praktikum 1 – Integrasi Laravel dengan AdminLTE3

Cara paling cepat dan clean dapat dilakukan menggunakan repository dalam tautan berikut <https://github.com/jeroennoten/Laravel-AdminLTE/wiki/Installation>.

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

```
PS C:\laragon\www\PWL_POS> composer require jeroennoten/laravel-adminlte

$ composer require jeroennoten/laravel-adminlte
./composer.json has been updated
Running composer update jeroennoten/laravel-adminlte
Loading composer repositories with package information
Updating dependencies
Nothing to modify in lock file
Installing dependencies from lock file (including require-dev)
Package operations: 2 installs, 0 updates, 0 removals
  - Downloading almasaeed2019/adminlte (v3.2.0)
  - Installing almasaeed2019/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
fanesa@Fanesa2004 MINGW64 /c:/laragon/www/PWL_POS (main)
```

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

```
fanesa@Fanesa2004 MINGW64 /c:/laragon/www/PWL_POS (main)
$ php artisan adminlte:install
Basic assets installed successfully.
Configuration file installed successfully.
Translation files installed 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": "^3.11",
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/",

```

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

```

resources > views > layout > app.blade.php > ...
1  @extends('adminlte::page')
2
3  @section('title')
4      @if (config('adminlte.title')) @hasSection('subtitle') | @yield('subtitle') @endif
5  @stop
6
7  @section('content_header')
8      @hasSection('content_header_title')
9          <h1 class="text-muted">
10              @yield('content_header_title')
11              @hasSection('content_header_subtitle')
12                  <small class="text-dark">
13                      <i class="fas fa-xs fa-angle-right text-muted"></i>
14                      @yield('content_header_subtitle')
15                  </small>
16              @endif
17          </h1>
18      @endif
19  @stop
20
21  @section('content')
22      @yield('content_body')
23  @stop
24
25  @section('footer')
26      <div class="float-right">
27          Version: {{ config('app.version', '1.0.0') }}
28      </div>
29      <strong>
30          <a href="{{ config('app.company_url', '#') }}">
31              {{ config('app.company_name', 'My company') }}
32          </a>
33      </strong>
34  @stop

```

```

36 @push('js')
37 <script>
38     $(document).ready(function() {
39         // Add your common script logic here...
40     });
41 </script>
42 @endpush
43
44 @push('css')
45 <style type="text/css">
46     {{-- You can add AdminLTE customizations here --}}
47     /*
48     .card-header {
49         border-bottom: none;
50     }
51     .card-title {
52         font-weight: 600;
53     }
54     */
55 </style>
56 @endpush

```

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

```

resources > views > welcome.blade.php > ...
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

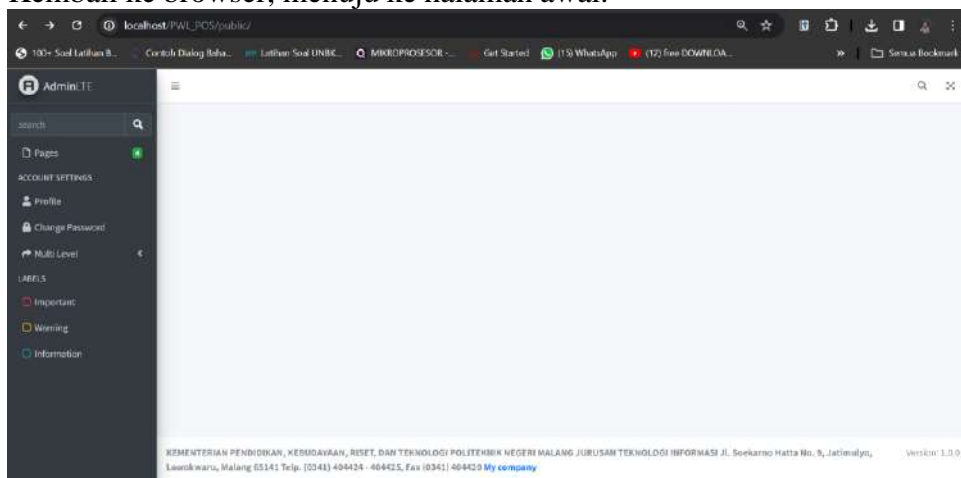
```

```

46  {{-- Add common Javascript/Jquery code --}}
47  @push('js')
48      <script>
49          $(document).ready(function() {
50              // Add your common script logic here...
51          });
52      </script>
53  @endpush
54
55  {{-- Add common CSS customizations --}}
56  @push('css')
57      <style type="text/css">
58          {{-- You can add AdminLTE customizations here --}}
59          /*
60          .card-header {
61              border-bottom: none;
62          }
63          .card-title {
64              font-weight: 600;
65          }
66          */
67      </style>
68  @endpush

```

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.

1. Install Laravel DataTables

```
fanesa@Fanesa2004 MINGW64 /c/laragon/www/PWL_POS (main)
$ 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.
```

```
fanesa@Fanesa2004 MINGW64 /c/laragon/www/PWL_POS (main)
$ composer require yajra/laravel-datatables:^10.0
./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 (v10.0.9)
  - 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 (0.20.1)
  - 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 (0.20.1): 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 (v10.0.9): Extracting archive
```

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

```
fanesa@Fanesa2004 MINGW64 /c/laragon/www/PWL_POS (main)
$ npm -v
10.2.4
```

3. Install Laravel DataTables Vite dan sass

```
fanesa@Fanesa2004 MINGW64 /c/laragon/www/PWL_POS (main)
$ npm i laravel-datatables-vite --save-dev

added 33 packages, and audited 34 packages in 16s

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
```

```
fanesa@Fanesa2004 MINGW64 /c/laragon/www/PWL_POS (main)
$ npm install -D sass

added 15 packages, and audited 49 packages in 4s

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';
```

5. Buatlah file resources/sass/app.scss

```
@import url('https://fonts.bunny.net/css?family=Nunito');

@import 'bootstrap/scss/bootstrap';

@import 'bootstrap-icons/font/bootstrap-icons.css';
@import "datatables.net-bs5/css/dataTables.bootstrap5.min.css";
@import "datatables.net-buttons-bs5/css/buttons.bootstrap5.min.css";
@import 'datatables.net-select-bs5/css/select.bootstrap5.css';
```


6. Jalankan dengan `npm run dev`

```
$ npm run dev

> dev
> vite

VITE v5.1.6 ready in 385 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

`php artisan datatables:make 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
Sesuaikan 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\Column;
use Yajra\DataTables\Html\Editor\Editor;
use Yajra\DataTables\Html\Editor\Fields;
use Yajra\DataTables\Services\DataTable;

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

    /**
     * Get the query source of dataTable.
     */
}
```



```

public function query(KategoriModel $model): QueryBuilder
{
    return $model->newQuery();
}

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

```

```

protected 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.
 */
protected function filename(): string
{
    return 'Kategori_' . date('YmdHis');
}
}

```

9. Ubah kategori model, sesuaikan seperti berikut

```
app > Models > KategoriModel.php > KategoriModel > barang
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     protected $fillable = ['kategori_kode', 'kategori_nama'];
13
14     public function barang(): HasMany
15     {
16         return $this->hasMany(BarangModel::class, 'kategori_id', 'kategori_id');
17     }
18 }
19
```

10. Ubah Kategori Controller sesuaikan dengan skrip berikut:

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

11. Buat folder kategori di dalam resources/view, kemudian buat view blade index untuk kategori [resources/views/kategori/index.blade.php](#)

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

12. Pastikan route untuk kategori sudah tersedia

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

13. Sesuaikan app layout seperti kode berikut

```
resources > views > layout > app.blade.php > ...
1  @extends('adminlte::page')
2
3  @section('title')
4      {{ config('adminlte.title') }}
5      @hasSection('subtitle') | @yield('subtitle') @endif
6  @stop
7
8  @vite('resources/js/app.js')
9
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 @section('content')
25     @yield('content_body')
26 @stop
27
28 @section('footer')
29     <div class="float-right">
30         Version: {{ config('app.version', '1.0.0') }}
31     </div>
32     <strong>
33         <a href="{{ config('app.company_url', '#') }}">
34             {{ config('app.company_name', 'My company') }}
35         </a>
36     </strong>
37 @stop
```

```
38
39 @push('js')
40     <script src="https://cdn.datatables.net/2.0.2/js/dataTables.js"></script>
41 @endpush
42
43 @stack('scripts')
44
45 @push('css')
46     <link rel="stylesheet" href="https://cdn.datatables.net/2.0.2/css/dataTables.dataTables.css" />
47     <style type="text/css">
48         {{-- You can add AdminLTE customizations here --}}
49         /*
50         .card-header {
51             border-bottom: none;
52         }
53         .card-title {
54             font-weight: 600;
55         }
56         */
57     </style>
58 @endpush
```

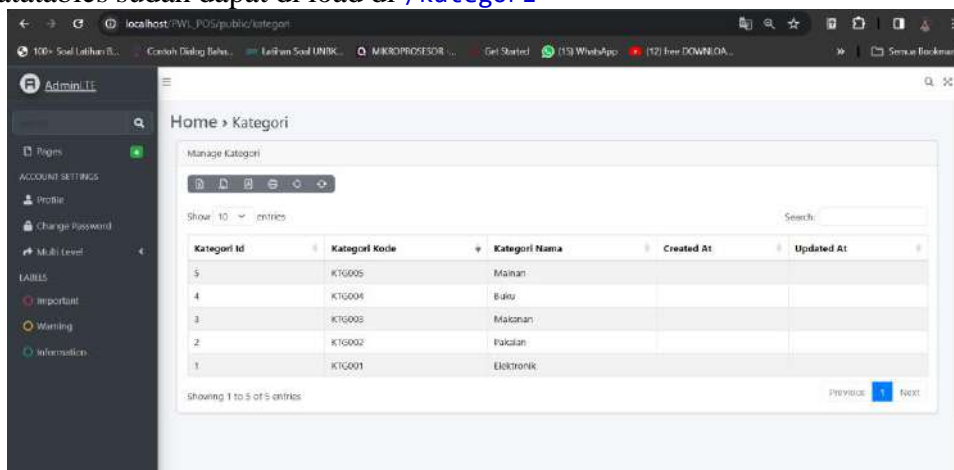
14. Menset ViteJs / script type defaults

```
app > Providers > AppServiceProvider.php > AppServiceProvider > boot
1  <?php
2
3  namespace App\Providers;
4
5  use Yajra\DataTables\Html\Builder;
6  use Illuminate\Support\ServiceProvider;
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

	kategori_id	kategori_kode	kategori_nama	created_at	updated_at
<input type="checkbox"/> Edit <input type="copy"/> Copy <input type="delete"/>	1	KTG001	Elektronik	NULL	NULL
<input type="checkbox"/> Edit <input type="copy"/> Copy <input type="delete"/>	2	KTG002	Pakaian	NULL	NULL
<input type="checkbox"/> Edit <input type="copy"/> Copy <input type="delete"/>	3	KTG003	Makanan	NULL	NULL
<input type="checkbox"/> Edit <input type="copy"/> Copy <input type="delete"/>	4	KTG004	Buku	NULL	NULL
<input type="checkbox"/> Edit <input type="copy"/> Copy <input type="delete"/>	5	KTG005	Mainan	NULL	NULL

16. Datatables sudah dapat di load di /kategori



Kategori Id	Kategori Kode	Kategori Nama	Created At	Updated At
5	KTG005	Mainan		
4	KTG004	Buku		
3	KTG003	Makanan		
2	KTG002	Pakaian		
1	KTG001	Elektronik		

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

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

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

```
resources > views > kategori > create.blade.php > ...
1  @extends('layout.app')
2
3  @section('subtitle', 'Kategori')
4  @section('content_header_title', 'Kategori')
5  @section('content_header_subtitle', 'Create')
6
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             <form method="post" action=".." />
14                 @csrf
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="Kode Kategori">
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="Nama Kategori">
23                     </div>
24                 </div>
25                 <div class="card-footer">
26                     <button type="submit" class="btn btn-primary">Submit</button>
27                 </div>
28             </form>
29         </div>
30     </div>
31 @endsection
```

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

```
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  }
```

5. Akses kategori/create

Kategori > Create

Buat kategori baru

Kode Kategori
untuk makanan, contoh: MKN

Nama Kategori
Nama

Submit

6. Halaman kategori

Kategori > Create

Buat kategori baru

Kode Kategori
KTG005

Nama Kategori
Minuman

Submit

Home > Kategori

Manage Kategori

Show 10 entries

Kategori Id	Kategori Kode	Kategori Nama	Created At	Updated At
1	KTG001	Elektronik		
2	KTG002	Pakaian		
3	KTG003	Makanan		
4	KTG004	Buku		
5	KTG005	Makanan		
6	KTG006	Minuman	2024-03-20T08:35:43.000000Z	2024-03-20T08:35:43.000000Z

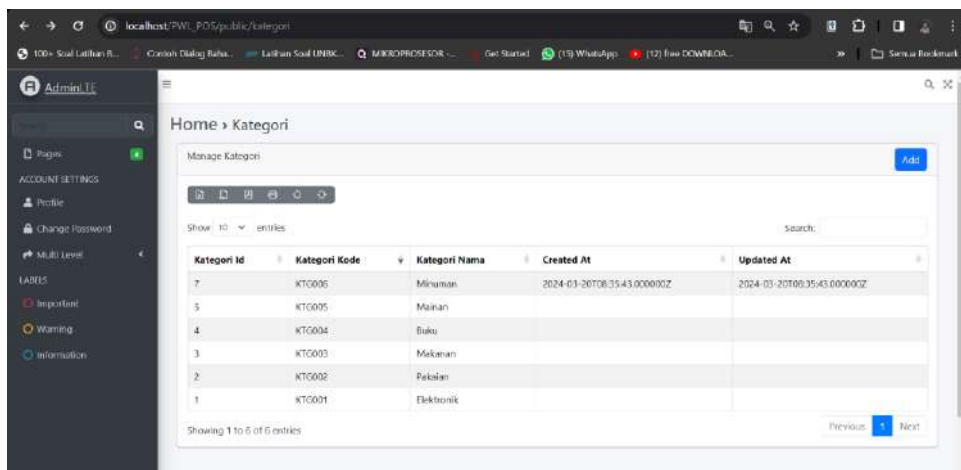
Showing 1 to 6 of 6 entries

Previous Next

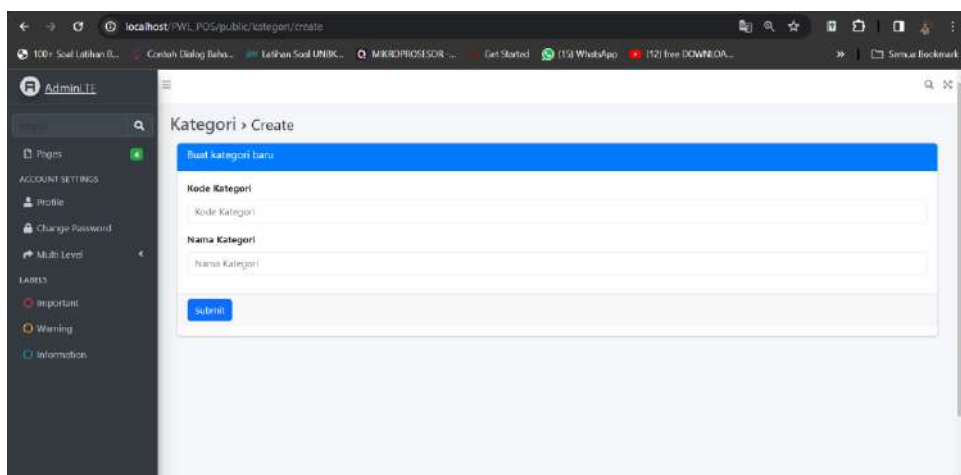
Tugas Praktikum

1. Tambahkan button Add di halam manage kategori, yang mengarah ke create kategori baru

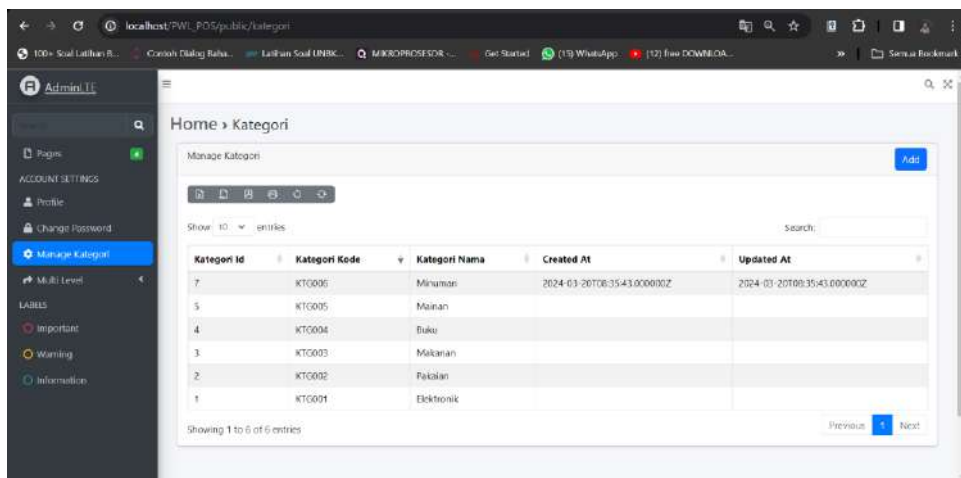
Jawab:



Jika di klik button Add akan mengarah ke halaman creat kategori

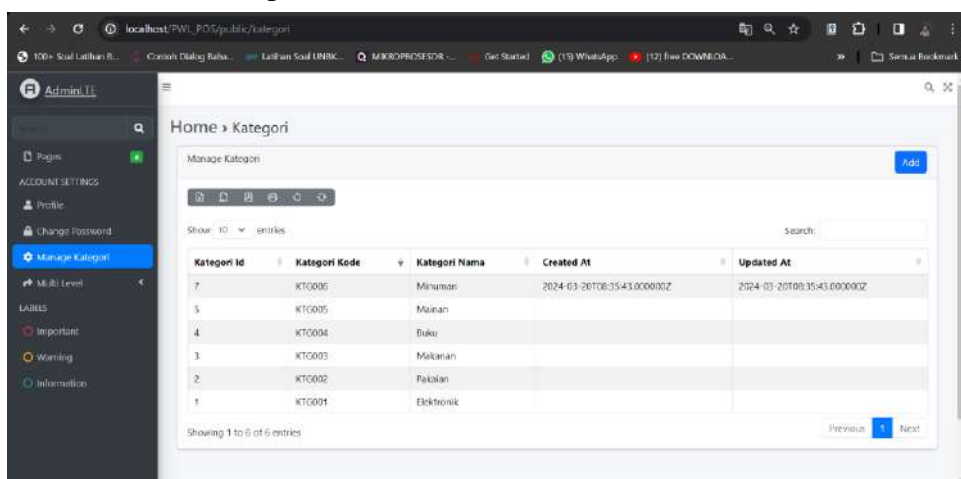


2. Tambahkan menu untuk halaman manage kategori, di daftar menu navbar

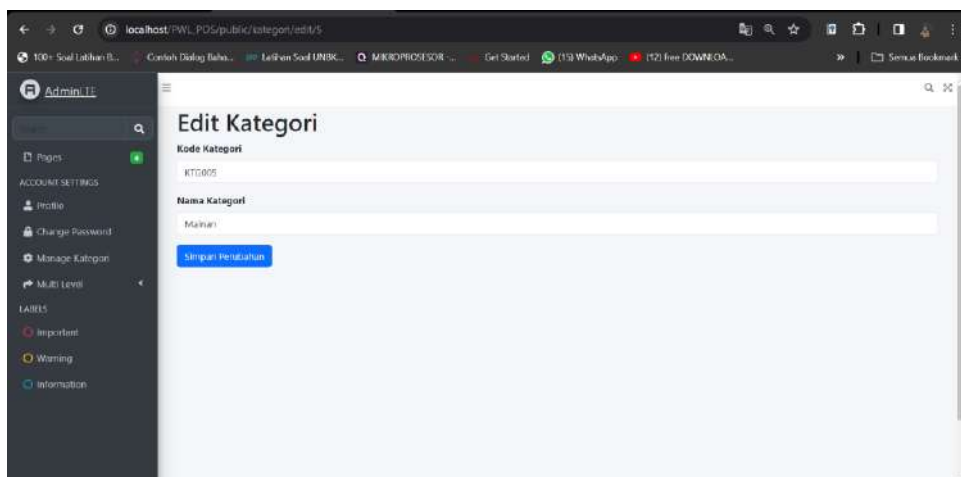


3. Tambahkan action edit di datatables dan buat halaman edit serta controllernya

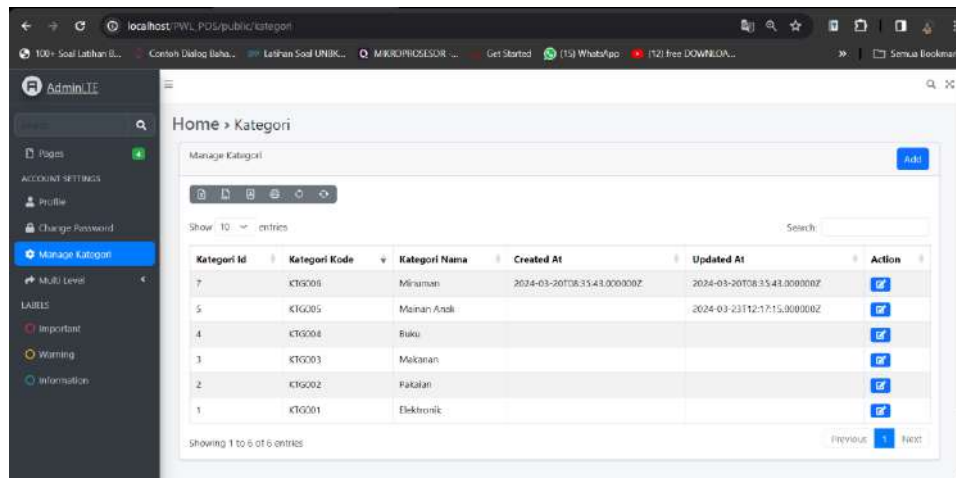
- Sebelum data diupdate dan ditambahkan action edit



- Halaman edit kategori

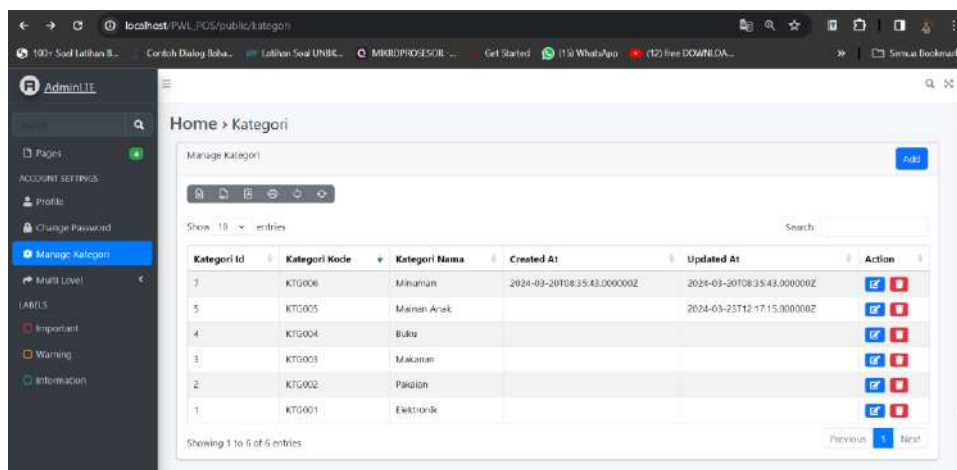


- Setelah diperbarui



4. Tambahkan action delete di datatables serta controllernya

- Sebelum Kategori Dihapus



- Jika ingin menghapus Kategori Minuman

