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Mata Kuliah	: Pemrograman Web Lanjut Jobsheet 5 (Blade View, Web Templating

(AdminLTE), Datatables)

Praktikum 1 - Integrasi Laravel dengan AdminLte3

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

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


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

```
php artisan adminlte:install
```

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

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

{{-- Extend and customize the browser title --}}
@section('title')
    {{ config('adminlte.title') }}
    @hasSection('subtitle')
        | @yield('subtitle')
    @endif
@stop
{{-- 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')
                <small class="text-dark">
                    <i class="fas fa-xs fa-angle-right text-muted"></i>
                    @yield('content_header_subtitle')
                </small>
            @endif
        </h1>
    @endif
@stop
{{-- Rename section content to content_body --}}
@section('content')
    @yield('content_body')
@stop
```

```php
@section('footer')
    <div class="float-right">
        Version: {{ config('app.version', '1.0.0') }}
    </div>
    <strong>
        <a href="{{ config('app.company_url', '#') }}">
            {{ config('app.company_name', 'My company') }}
        </a>
    </strong>
@stop
{{-- 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

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

{{-- customize layout sections --}}

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

{{-- customize content body --}}

@section('content_body')
    <p>Welcome to this beautiful admin panel.</p>
@stop

{{-- Push extra CSS --}}

@push('css')
    {{-- Add your extra stylesheets --}}
    {{-- <link rel="stylesheet" href="/css/admin_custom.css"> --}}
@endpush

{{-- Push extra scripts --}}

@push('js')
    <script>
        console.log("Hi, I'm using the Laravel-AdminLte package!")
    </script>
@endpush
```

5. Kembali ke browser, menuju ke halaman awal.
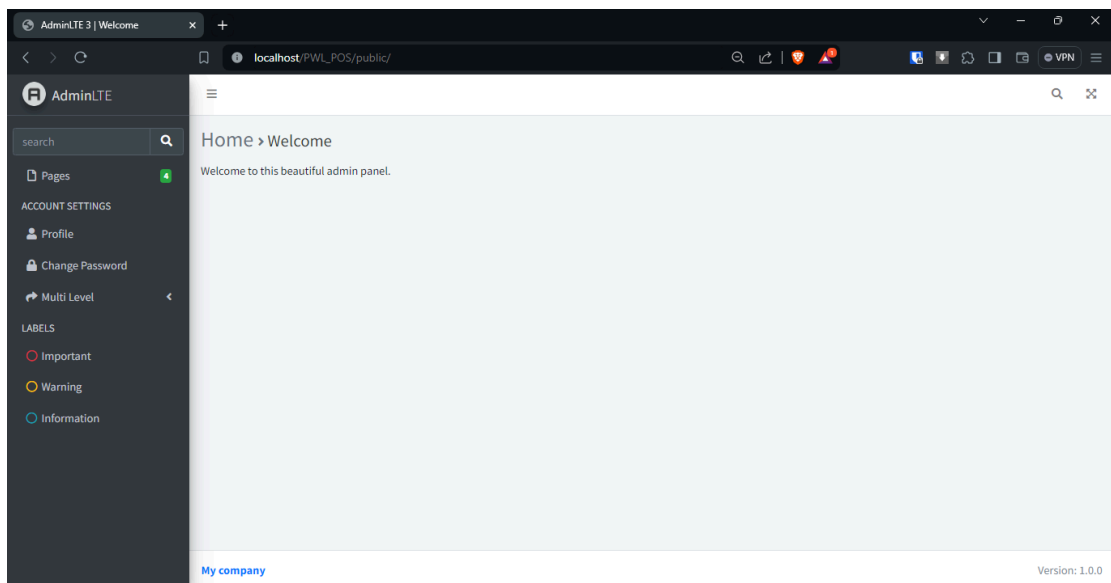
Praktikum 2 - Integrasi dengan DataTables

1. Install Laravel DataTables

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

```
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
```

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

```
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/constra
ints
./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
  - 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
```

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.

3. Install Laravel DataTables Vite dan sass

```
npm i laravel-datatables-vite --save-dev
```



```
npm install -D sass
```

4. Edit file resources/js/app.js

```js
import './bootstrap';
import "../sass/app.scss";
import 'laravel-datatables-vite';
```

5. Buatlah file resources/saas/app.scss

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

// Bootstrap
@import 'bootstrap/scss/bootstrap';

// DataTables
@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.min.css";
```

6. Jalankan dengan `npm run dev`

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

> dev
> vite


  VITE v5.1.6  ready in 658 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 KategoriDatable untuk mengatur kolom apasaja yang ingin ditampilkan Sesuaikan dengan kodeprogram berikut

```php
16    class KategoriDataTable extends DataTable
17    {
18        /**
19         * Build the DataTable class.
20         *
21         * @param QueryBuilder $query Results from query() method.
22         */
23        public function dataTable(QueryBuilder $query): EloquentDataTable
24        {
25            return (new EloquentDataTable($query))
26                ->addColumn('action', 'kategori.action')
27                ->setRowId('id');
28        }
29
30        /**
31         * Get the query source of dataTable.
32         */
33        public function query(KategoriModel $model): QueryBuilder
34        {
35            return $model->newQuery();
36        }
```

```php
41        public function html(): HtmlBuilder
42        {
43            return $this->builder()
44                ->setTableId('kategori-table')
45                ->columns($this->getColumns())
46                ->minifiedAjax()
47                //->dom('Bfrtip')
48                ->orderBy(1)
49                ->selectStyleSingle()
50                ->buttons([
51                    Button::make('excel'),
52                    Button::make('csv'),
53                    Button::make('pdf'),
54                    Button::make('print'),
55                    Button::make('reset'),
56                    Button::make('reload')
57                ]);
58        }
```

```php
63        public function getColumns(): array
64        {
65            return [
66                Column::computed('action')
67                    ->exportable(false)
68                    ->printable(false)
69                    ->width(60)
70                    ->addClass('text-center'),
71                Column::make('kategori_id'),
72                Column::make('kategori_kode'),
73                Column::make('kategori_nama'),
74                Column::make('created_at'),
75                Column::make('updated_at'),
76            ];
77        }
78
79        /**
80         * Get the filename for export.
81         */
82        protected function filename(): string
83        {
84            return 'Kategori_' . date('YmdHis');
85        }
86    }
```

9. Ubah kategori model, sesuaikan seperti berikut

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

10. Ubah Kategori Controller sesuaikan dengan skrip berikut:

```php
app > Http > Controllers > KategoriController.php > ...
6    use Illuminate\Http\Request;
7    use Illuminate\Support\Facades\DB;
8
9    class KategoriController extends Controller
10   {
11       public function index(KategoriDataTable $dataTable)
12       {
13           return $dataTable->render('kategori.index');
14       }
```

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

```php
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 untung kategori sudah tersedia

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

13. Sesuaikan app layout seperti kode berikut

resources > views > layouts > app.blade.php > link

```blade
1   @extends('adminlte::page')
2
3   {{-- Extend and customize the browser title --}}
4   @section('title')
5       {{ config('adminlte.title') }}
6       @hasSection('subtitle')
7           | @yield('subtitle')
8       @endif
9   @stop
10
11  @vite('resources/js/app.js')
12
13  {{-- Extend and customize the page content header --}}
14  @section('content_header')
15      @hasSection('content_header_title')
16          <h1 class="text-muted">
17              @yield('content_header_title')
18              @hasSection('content_header_subtitle')
19                  <small class="text-dark">
20                      <i class="fas fa-xs fa-angle-right text-muted"></i>
21                      @yield('content_header_subtitle')
22                  </small>
23              @endif
24          </h1>
25      @endif
26  @stop
27  {{-- Rename section content to content_body --}}
28  @section('content')
29      @yield('content_body')
30  @stop
```

```blade
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  {{-- Add common Javascript/Jquery code --}}
43  @push('js')
44      <script src="https://cdn.datatables.net/2.0.2/js/dataTables.js"></script>
45  @endpush
46  {{-- Add common CSS customizations --}}
47
48  @stack('scripts')
49
50  @push('css')
51  <link rel="stylesheet" href="https://cdn.datatables.net/2.0.2/css/dataTables.dataTables.css">
52      <style type="text/css">
53          {{-- You can add AdminLTE customizations here --}}
54          /*
55              .card-header {
56              border-bottom: none;
57              }
58              .card-title {
59              font-weight: 600;
60              }
61          */
62      </style>
```

14. Menset ViteJs / script type defaults

```
app > Providers > 🐘 AppServiceProvider.php > 🔀 AppServiceProvider > 
   8      class AppServiceProvider extends ServiceProvider
  21          public function boot(): void
  22          {
  23              Builder::useVite();
  24          }
  25      }
  26
```

15. Isikan beberapa data ke table kategori

				kategori_id	kategori_kode	kategori_nama	created_at	updated_at
☐	🖉 Edit	ᴉⁱ Copy	⊖ Delete	1	MKN	Makanan	NULL	NULL
☐	🖉 Edit	ᴉⁱ Copy	⊖ Delete	2	MNM	Minuman	NULL	NULL
☐	🖉 Edit	ᴉⁱ Copy	⊖ Delete	3	PKN	PAKAIAN	NULL	NULL
☐	🖉 Edit	ᴉⁱ Copy	⊖ Delete	4	OBT	OBAT	NULL	NULL
☐	🖉 Edit	ᴉⁱ Copy	⊖ Delete	5	ELK	ELEKTRONIK	NULL	NULL
☐	🖉 Edit	ᴉⁱ Copy	⊖ Delete	7	CML	Cemilan	2024-03-26 10:46:25	NULL
☐	🖉 Edit	ᴉⁱ Copy	⊖ Delete	8	MNR	Minuman Ringan	2024-03-26 10:46:41	NULL

16. Datatables sudah dapat di load di /kategori

Praktikum 3 - Membuat form kemudian menyimpan data dalam database

1. Menyesuaikan routing, tambahkan dua routing berikut

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

2. Tambahkan dua function berikut dalam KategoriController

```
app > Http > Controllers > 🐘 KategoriController.php > ...
10    class KategoriController extends Controller
17        public function create()
19            return view('kategori.create');
20        }
21
22        public function store(Request $request)
23        {
24            KategoriModel::create([
25                'kategori_kode' => $request->kodeKategori,
26                'kategori_nama' => $request->namaKategori,
27            ]);
28
29            return redirect('/kategori');
30        }
```
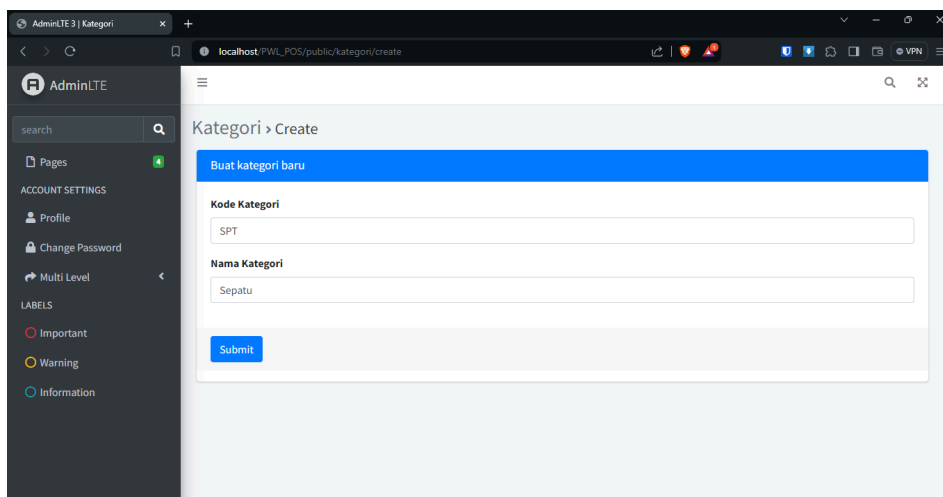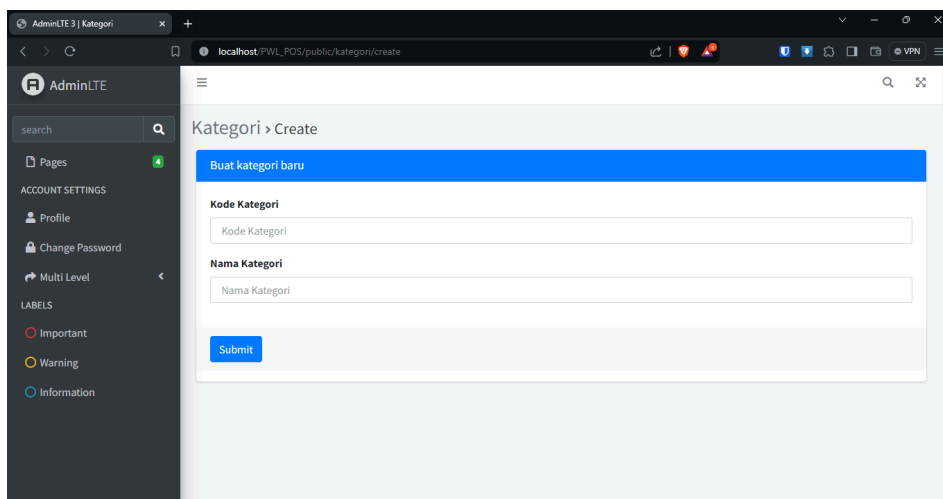
3. Dalam folder views/kategori, buatlah file dengan nama create.blade.php

```
resources > views > kategori > 🐘 create.blade.php > ...
1     @extends('layouts.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
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=" 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:

```php
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   }
```

5. Akses kategori/create

6. Halaman kategori
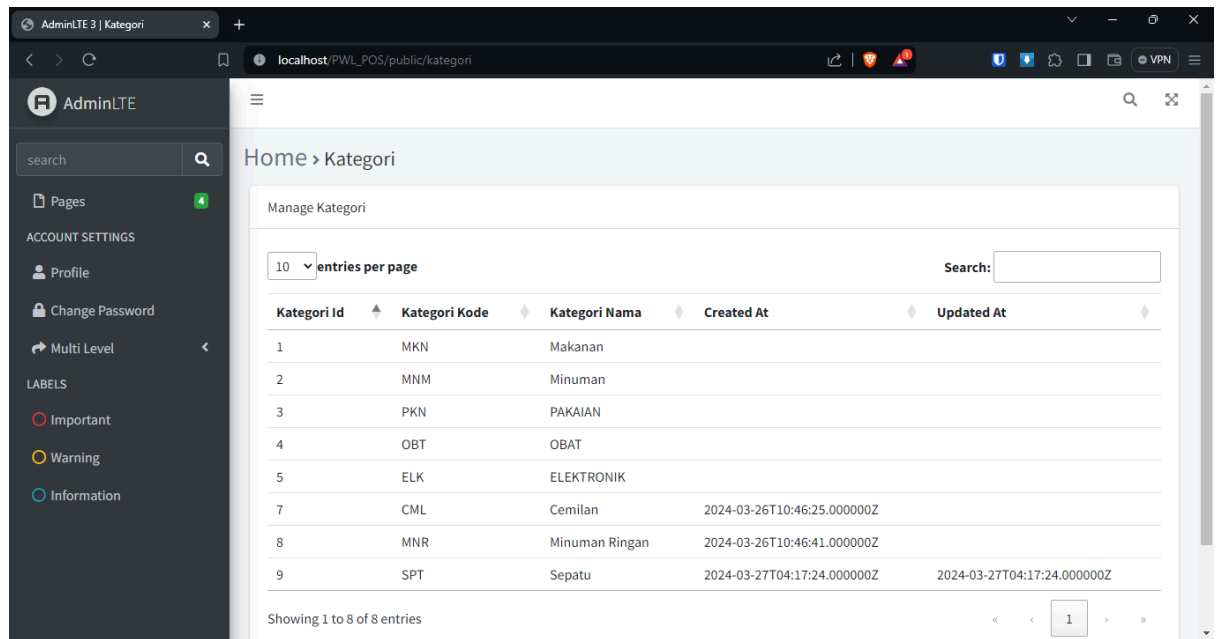
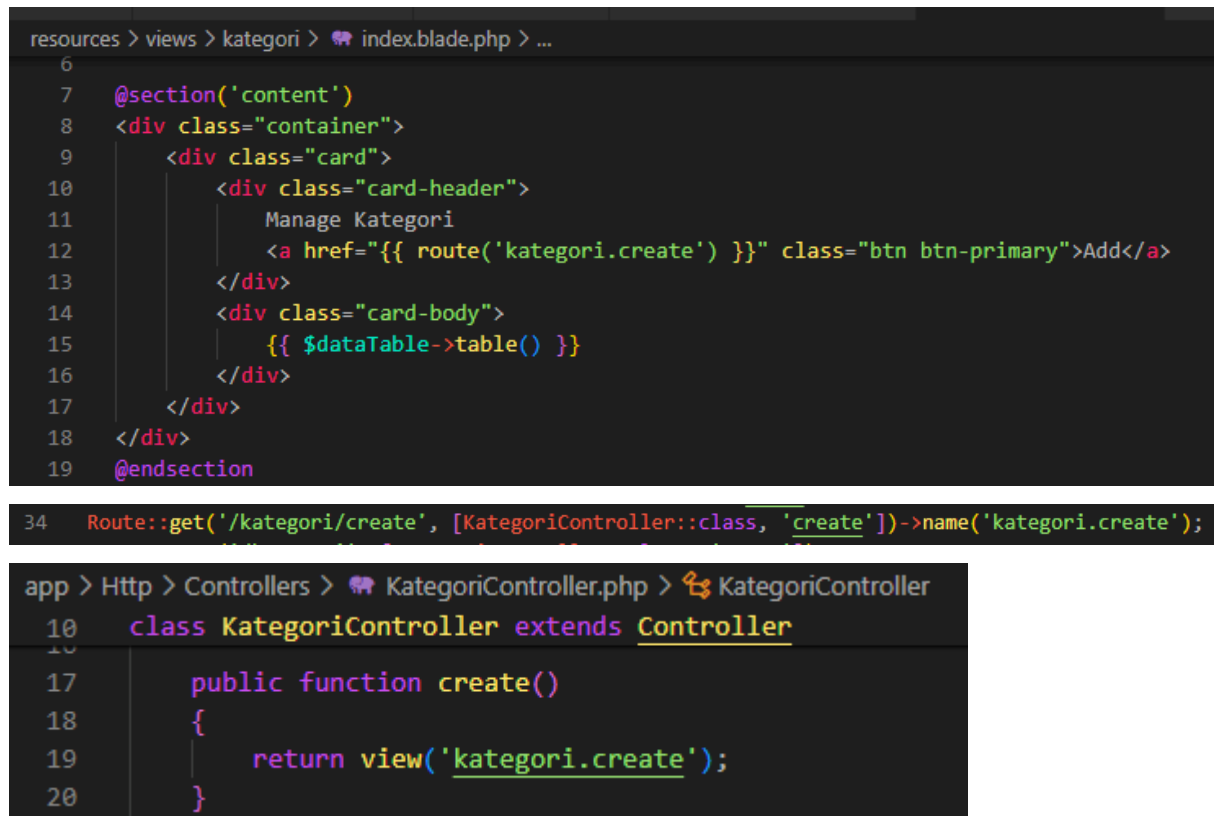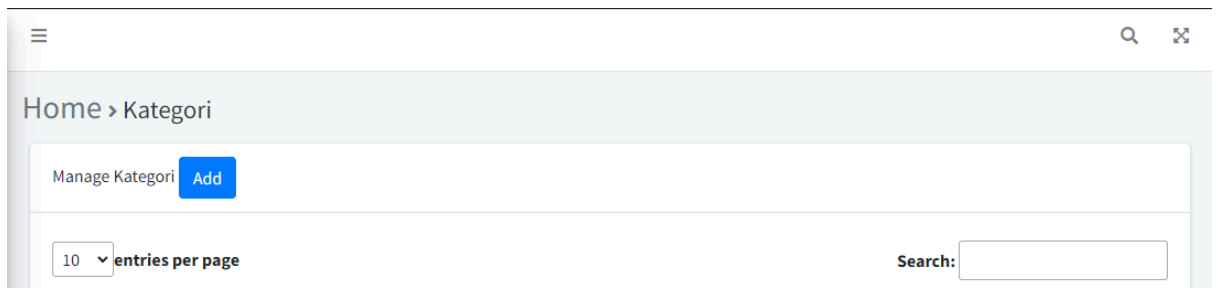**Tugas Praktikum**
1. Tambahkan button Add di halam manage kategori, yang mengarah ke create kategori baru

   index.blade.php


```
resources > views > kategori > 🐘 index.blade.php > ...
 6
 7    @section('content')
 8    <div class="container">
 9        <div class="card">
10            <div class="card-header">
11                Manage Kategori
12                <a href="{{ route('kategori.create') }}" class="btn btn-primary">Add</a>
13            </div>
14            <div class="card-body">
15                {{ $dataTable->table() }}
16            </div>
17        </div>
18    </div>
19    @endsection
```

```
34    Route::get('/kategori/create', [KategoriController::class, 'create'])->name('kategori.create');
```

```
app > Http > Controllers > 🐘 KategoriController.php > 🐾 KategoriController
10    class KategoriController extends Controller
17        public function create()
18        {
19            return view('kategori.create');
20        }
```

2. Tambahkan menu untuk halaman manage kategori, di daftar menu navbar
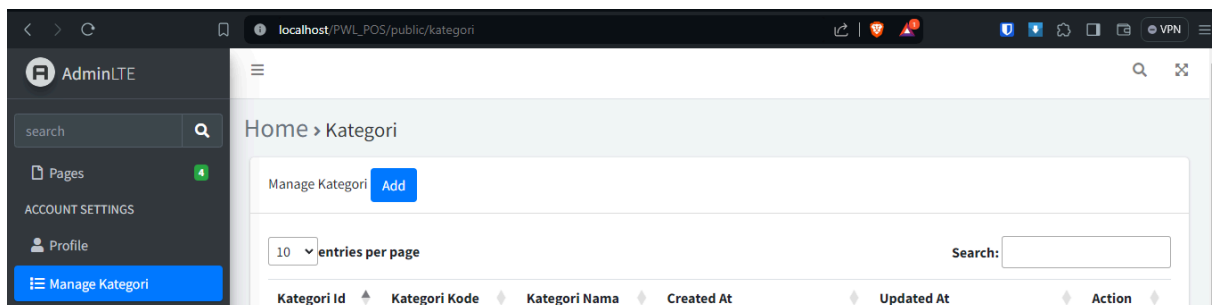
3. Tambahkan action edit di datatables dan buat halaman edit serta controllernya

```
app > DataTables > KategoriDataTable.php > KategoriDataTable
16    class KategoriDataTable extends DataTable
22        */
23        public function dataTable(QueryBuilder $query): EloquentDataTable
24        {
25            return (new EloquentDataTable($query))
26                ->setRowId('id')
27                ->addColumn('action', function ($row) {
28                    $editButton = '<a href="' . route('kategori.edit', $row->kategori_id) . '" class="btn btn-primary btn-sm"><i
                        class="fas fa-edit"></i> </a>&nbsp';

29
30                    return $editButton;
31                });
32        }
```

```php
16    class KategoriDataTable extends DataTable
69        public function getColumns(): array
70        {
71            return [
72                // Column::computed('action')
73                //       ->exportable(false)
74                //       ->printable(false)
75                //       ->width(60)
76                //       ->addClass('text-center'),
77                Column::make('kategori_id'),
78                Column::make('kategori_kode'),
79                Column::make('kategori_nama'),
80                Column::make('created_at'),
81                Column::make('updated_at'),
82                Column::make('action'),
83            ];
84        }
```

```php
10    class KategoriController extends Controller
32        public function edit($id)
33        {
34            $kategori = KategoriModel::find($id);
35            return view('kategori.edit', compact('kategori'));
36        }
37
38        public function update(Request $request, $id)
39        {
40            $kategori = KategoriModel::find($id);
41            $kategori->kategori_kode = $request->kategori_kode;
42            $kategori->kategori_nama = $request->kategori_nama;
43            $kategori->save();
44
45            return redirect('/kategori')->with('success', 'Kategori berhasil diupdate');
46        }
```

```blade
1     @extends('layouts.app')
2
3     @section('subtitle', 'Kategori')
4     @section('content_header_title', 'Kategori')
5     @section('content_header_subtitle', 'Edit')
6
7     @section('content')
8         <div class="container">
9             <div class="card card-primary">
10                <div class="card-header">
11                    <h3 class="card-title">Edit kategori</h3>
12                </div>
13
14                <form method="post" action="{{ route('kategori.update', $kategori->kategori_id) }}">
15                    @csrf
16                    @method('PUT')
17
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"
22                                value="{{ $kategori->kategori_kode }}">
23                        </div>
24                        <div class="form-group">
25                            <label for="namaKategori">Nama Kategori</label>
26                            <input type="text" class="form-control" id="namaKategori" name="namaKategori"
27                                value="{{ $kategori->kategori_nama }}">
28                        </div>
29                    </div>
30                    <div class="card-footer">
31                        <button type="submit" class="btn btn-primary">Submit</button>
32                    </div>
33                </form>
34            </div>
35        </div>
36    @endsection
```

```
routes > 🐘 web.php > ...
36    Route::get('/kategori/edit/{id}', [KategoriController::class, 'edit'])->name('kategori.edit');
37    Route::put('/kategori/update/{id}', [KategoriController::class, 'update'])->name('kategori.update');
```


Home › Kategori

Manage Kategori **Add**

Kategori Id	Kategori Kode	Kategori Nama	Created At	Updated At	Action
1	MKN	Makanan			
2	MNM	Minuman			
3	PKN	PAKAIAN			
4	OBT	OBAT			
5	ELK	ELEKTRONIK			
7	CML	Cemilan	2024-03-26T10:46:25.000000Z		

localhost/PWL_POS/public/kategori/edit/1

Kategori › Edit

Edit kategori

Kode Kategori

MKN

Nama Kategori

Makanan

Submit

Kategori › Edit

Edit kategori

Kode Kategori

MKB

Nama Kategori

Makanan Berat

Submit

4. Tambahkan action delete di datatables serta controllernya

```php
app > Http > Controllers > KategoriController.php > KategoriController > update
10    class KategoriController extends Controller
32        public function edit($id)
33        {
34            $kategori = KategoriModel::find($id);
35            return view('kategori.edit', compact('kategori'));
36        }
37
38        public function update(Request $request, $id)
39        {
40            $kategori = KategoriModel::find($id);
41            $kategori->kategori_kode = $request->kodeKategori;
42            $kategori->kategori_nama = $request->namaKategori;
43            $kategori->save();
44
45            return redirect('/kategori')->with('success', 'Kategori berhasil diupdate');
46        }
```

```php
app > Http > Controllers > KategoriController.php > ...
10    class KategoriController extends Controller
48        public function delete($id)
49        {
50            $kategori = KategoriModel::find($id);
51            if (!$kategori) {
52                abort(404);
53            }
54
55            $kategori->delete();
56
57            return redirect('/kategori')->with('success', 'Kategori berhasil dihapus');
58        }
```

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

localhost/PWL_POS/public/kategori

Manage Kategori Add

Kategori Id	Kategori Kode	Kategori Nama	Created At	Updated At	Action
1	MKB	Makanan Berat		2024-04-02T21:12:05.000000Z	
2	MNM	Minuman			
3	PKN	PAKAIAN			
4	OBT	OBAT			
5	ELK	ELEKTRONIK			
7	CML	Cemilan	2024-03-26T10:46:25.000000Z		

Showing 1 to 6 of 6 entries

---

localhost says

Apakah Anda yakin ingin menghapus kategori ini?

OK   Cancel

AdminLTE

Home › Kategori

Manage Kategori Add

10 entries per page   Search:

Kategori Id	Kategori Kode	Kategori Nama	Created At	Updated At	Action
1	MKB	Makanan Berat		2024-04-02T21:12:05.000000Z	
2	MNM	Minuman			
3	PKN	PAKAIAN			
4	OBT	OBAT			
5	ELK	ELEKTRONIK			

Showing 1 to 5 of 5 entries