

**TUGAS**  
**Analisis Desain**

**PERTEMUAN 5**  
Blade View, Web Templating

**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.  
composer require jeroennoten/laravel-adminlte

```
C PS C:\laragon\www\SMT4\WebLanjut\Week5\PrakJS5> composer require jeroennoten/laravel-adminlte
./composer.json has been updated
Running composer update jeroennoten/laravel-adminlte
```

2. Melakukan instalasi requirement project di atas dengan command berikut  
php artisan adminlte:install

```
Using version ^3.15 for jeroennoten/laravel-adminlte
PS C:\laragon\www\SMT4\WebLanjut\Week5\PrakJS5> php artisan adminlte:install
```

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

```
WebLanjut > Week5 > PrakJS5 > resources > views > layouts > app.blade.php > ...
1 @extends('adminlte::page')
2 {{-- Extend and customize the browser title --}}
3 @section('title')
4     {{ config('adminlte.title') }}
5     @hasSection('subtitle')
6         @yield('subtitle')
7     @endif
8 @stop
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-mute">
17                         @yield('content_header_subtitle')
18                     </i>
19                 </small>
20             @endif
21         </h1>
22     @endif
23 @stop
24 {{-- Rename section content to content_body --}}
25 @section('content')
26     @yield('content_body')
27 @stop
28 {{-- Create a common footer --}}
29 @section('footer')
```

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

```

ebLanjut > Week5 > PrakJS > resources > views > welcome.blade.php > ...
1  @extends('layouts.app')
2  {{-- Customize layout sections --}}
3  @section('subtitle', 'Welcome')
4  @section('content_header_title', 'Home')
5  @section('content_header_subtitle', 'Welcome')
6  {{-- Content body: main page content --}}
7  @section('content_body')
8      <p>Welcome to this beautiful admin panel.</p>
9  @stop
10  {{-- Push extra CSS --}}
11  @push('css')
12      {{-- Add here extra stylesheets --}}
13      {{-- <link rel="stylesheet" href="/css/admin_custom.css"> --
14  @endpush
15  {{-- Push extra scripts --}}
16  @push('js')
17      <script>
18          console.log("Hi, I'm using the Laravel-AdminLTE package!")
19      </script>
20  @endpush

```

Untuk menggunakan blade template ini cukup dengan extend AdminLTE layout dengan cara @extends('adminlte::page'). Template yields di beberapa bagian terklasifikasi dalam 2 yield:

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

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\SMT4\WebLanjut\Week5\PrakJS5> 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
```

composer require yajra/laravel-datatables:^10.0

```
Using version ^4.6 for laravel/ui
PS C:\laragon\www\SMT4\WebLanjut\Week5\PrakJS5> composer require yajra/laravel-datatables:^10.0
The "10.0" constraint for "yajra/laravel-datatables" appears too strict and will likely not match what you want. See https://getcomposer.org/constraints
./composer.json has been updated
Running composer update yajra/laravel-datatables
Loading composer repositories with package information
Updating dependencies
Lock file operations: 7 installs, 0 updates, 0 removals
- Locking league/fractal (0.20.2)
- Locking yajra/laravel-datatables (v10.0.0)
- Locking yajra/laravel-datatables-buttons (v10.0.9)
```

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

Jika belum install nodejs package manager dari

```
C:\laragon\www\SMT4\WebLanjut\Week5\PrakJS5>npm -v
10.9.2
```

<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


```
C:\laragon\www\SMT4\WebLanjut\Week5\PrakJS5>npm i laravel-datatables-vite --save-dev
added 47 packages, and audited 48 packages in 17s
13 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.
npm notice
npm notice New major version of npm available! 10.9.2 -> 11.2.0
npm notice Changelog: https://github.com/npm/cli/releases/tag/v11.2.0
npm notice To update run: npm install -g npm@11.2.0
npm notice
```

npm install -D sass

```
C:\laragon\www\SMT4\WebLanjut\Week5\PrakJS5>npm install -D sass
added 15 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.
C:\laragon\www\SMT4\WebLanjut\Week5\PrakJS5>
```

### 4. Edit file resources/js/app.js


```

WebLanjut > Week5 > PrakJS5 > resources > js >  app.js
1  import './bootstrap';
2  import "../sass/app.scss";
3  import 'laravel-datatables-vite'

```

5. Buatlah file resources/sass/app.scss

```

WebLanjut > Week5 > PrakJS5 > 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.c
11 @import "datatables.net-select-bs5/css/select.bootstrap5.css";

```

6. Jalankan dengan npm run dev

```

C:\laragon\www\SMT4\WebLanjut\Week5\PrakJS5>npm run dev
> dev
> vite

VITE v5.4.14 ready in 1584 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\SMT4\WebLanjut\Week5\PrakJS5>php artisan datatables:make Kategori
INFO DataTable [C:\laragon\www\SMT4\WebLanjut\Week5\PrakJS5\app\DataTables\KategoriDataTable.php] created successfully.

```

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

```

14 use Yajra\DataTables\Services\DataTable;
15
16 Codeium: Refactor | Explain
17 class KategoriDataTable extends DataTable
18 {
19     /**
20      * Build the DataTable class.
21      *
22      * @param QueryBuilder $query Results from query() method.
23      */
24     Codeium: Refactor | Explain | X
25     public function dataTable(QueryBuilder $query): EloquentData
26     {
27         return (new EloquentDataTable($query))
28             →addColumn('action', 'kategori.action')
29             →setRowId('id');
30     }
31 }

```

9. Ubah kategori model, sesuaikan seperti berikut

```

8
9 Codeium: Refactor | Explain
10 class KategoriModel extends Model
11 {
12     // use HasFactory;
13     protected $table = 'm_kategori';
14     protected $primaryKey = 'kategori_id';
15     protected $fillable = ['kategori_kode', 'kategori_nama'];
16
17     Codeium: Refactor | Explain | Generate Function Comment | X
18     public function barang(): HasMany
19     {
20         return $this→hasMany(BarangModel::class, 'barang_id', 'barang_id');
21     }
22 }

```

10. Ubah Kategori Controller sesuaikan dengan skrip berikut:

```

1 use Illuminate\Support\Facades\DB;
2 use App\DataTables\KategoriDataTable;
3
4 Codeium: Refactor | Explain
5 class KategoriController extends Controller
6 {
7     Codeium: Refactor | Explain | Generate Function Comment | X
8     public function index(KategoriDataTable $dataTable)
9     {
10         return $dataTable→render('kategori.index');
11     }
12 }

```

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 {{-- Customize layout sections --}}
3 @section('subtitle', 'Kategori')
4 @section('content_header_title', 'Home')
5 @section('content_header_subtitle', 'Kategori')
6 @section('content')
7     <div class="container">
8         <div class="card">
9             <div class="card-header">Manage Kategori</div>
10            <div class="d-flex justify-content-between" style="padding: 10px;">
11                <a href="/kategori/create" class="btn btn-primary">Add</a>
12            </div>
13            <div class="card-body">
14                {{ $dataTable->table() }}
15            </div>
16        </div>
17    </div>
18 @endsection
19 @push('scripts')
20     {{ $dataTable->scripts() }}
21 @endpush

```

12. Pastikan route untuk kategori sudah tersedia

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

13. Sesuaikan app layout seperti kode berikut

```

@stack('scripts')
{{-- Add common Javascript/Jquery code --}}
@push('js')
    <script src="https://cdn.datatables.net/2.0.2/js/dataTables.js"></script>
@endpush

@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;
        }
        */

```

14. Menyet ViteJs / script type defaults

```

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

```

15. Isikan beberapa data ke table kategori

				kategori_id	kategori_kode	kategori_nama	created_at	updated_at
<input type="checkbox"/>	 Edit	 Copy	 Delete	1	makanan	Makanan	NULL	NULL
<input type="checkbox"/>	 Edit	 Copy	 Delete	2	minuman	Minuman	NULL	NULL
<input type="checkbox"/>	 Edit	 Copy	 Delete	3	snack	Snack	NULL	NULL

16. Datatables sudah dapat di load di /kategori

Home > Kategori

Manage Kategori

10 entries per page Search:

Kategori Id	Kategori Kode	Kategori Nama	Created At	Updated At
3	snack	Snack		
2	minuman	Minuman		
1	makanan	Makanan		
5	elektronik	Elektronik		
4	alat_tulis	Alat Tulis		

Showing 1 to 5 of 5 entries

« < 1 > »

### Praktikum 3 – Membuat form kemudian menyimpan data dalam database

1. Menyesuaikan routing, tambahkan dua routing berikut

```
// week 5 praktikum 3
Route::get('/kategori/create', [KategoriController::class, 'create']);
Route::post('/kategori/create', [KategoriController::class, 'store']);
```

2. Tambahkan dua function berikut dalam KategoriController



```

Codeium: Refactor | Explain | Generate Function Comment | X
public function create()
{
    return view('kategori.create');
}

Codeium: Refactor | Explain | Generate Function Comment | X
public function store(Request $request){
    KategoriModel::create([
        'kategori_kode' => $request->kodeKategori,
        'kategori_nama' => $request->namaKategori,
    ]);
    return redirect('/kategori');
}
}

```

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

```

WebLanjut > Week5 > PrakJSS > resources > views > kategori > create.blade.php > div.container > div.card.card-primary > form > div.card-body > div.form-group > input#kodeKategori.form-control
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             <form method="post" action=".." />
14             <div class="card-body">
15                 <div class="form-group">
16                     <label for="kodeKategori">Kode Kategori</label>
17                     <input type="text" class="form-control" id="kodeKategori" name="kodeKategori"
18                         placeholder="Masukan 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"
23                         placeholder="Masukan Nama Kategori">
24                 </div>
25             </div>
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
33

```

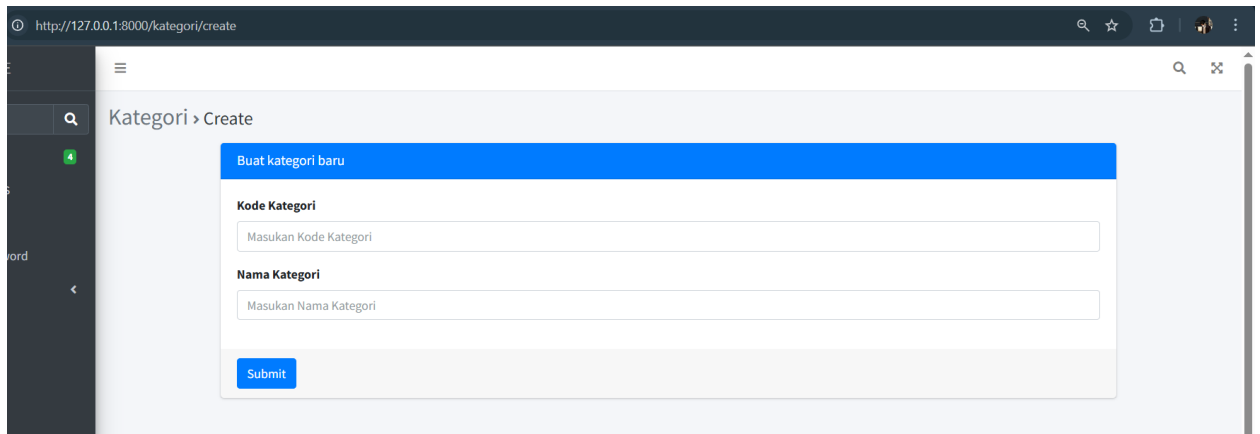
4. Kita lakukan pengecualian proteksi CsrfToken. Karena kita belum melakukan autentikasi .  
Kita edit dalam file berikut:

```

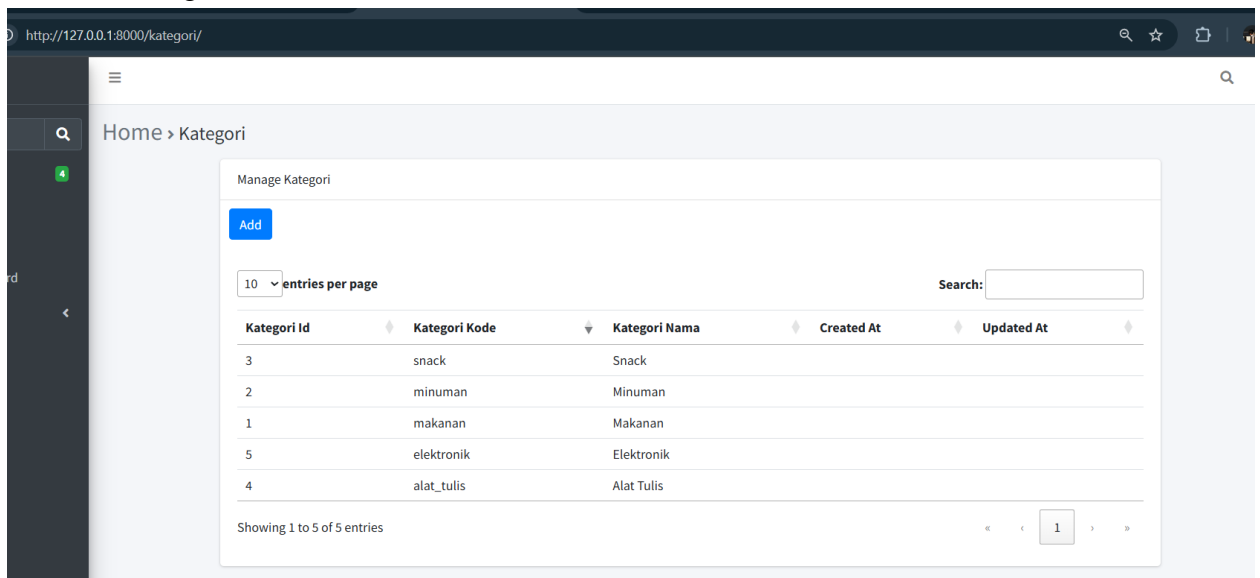
Codeium: Refactor | Explain
class VerifyCsrfToken extends Middleware
{
    /**
     * The URIs that should be excluded from CSRF verification.
     *
     * @var array<int, string>
     */
    protected $except = [
        '/kategori'
    ];
}

```

5. Akses kategori/create



## 6. Halaman kategori



## Tugas Praktikum

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

```

Lanjut > Week5 > PrakJ55 > resources > views > kategori > index.blade.php > div.container > div.card
@extends('layouts.app')
{{-- Customize Layout sections --}}
@section('subtitle', 'Kategori')
@section('content_header_title', 'Home')
@section('content_header_subtitle', 'Kategori')
@section('content')
    <div class="container">
        <div class="card">
            <div class="card-header">Manage Kategori</div>
            <div class="d-flex justify-content-between" style="padding: 10px;">
                <a href="/kategori/create" class="btn btn-primary">Add</a>
            </div>
            <div class="card-body">
                {{ $dataTable->table() }}
            </div>
        </div>
    </div>
</div>
@endsection
@push('scripts')
    {{ $dataTable->scripts() }}
@endpush

```

Home > Kategori

Manage Kategori

Add

10 entries per page

Search:

Kategori Id	Kategori Kode	Kategori Nama	Created At	Updated At
3	snack	Snack		
2	minuman	Minuman		
1	makanan	Makanan		
5	elektronik	Elektronik		
4	alat_tulis	Alat Tulis		

Showing 1 to 5 of 5 entries

«

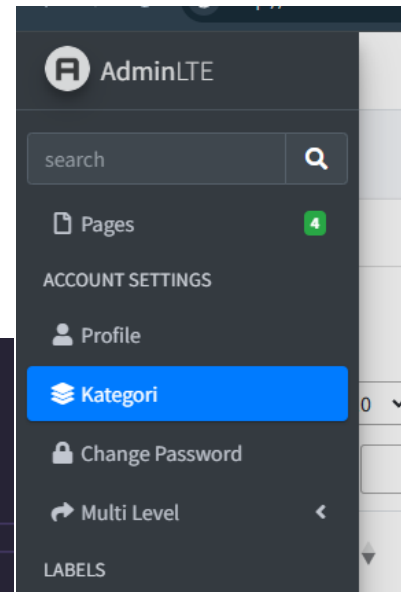
<

1

>

»

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



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

## Tambahkan route edit dan update

```
Route::get('/kategori/edit/{id}', [KategoriController::class, 'edit']);
Route::post('/kategori/edit', [KategoriController::class, 'update']);
```

Edit controller dengan menambahkan fungsi edit

```
Codeium: Refactor | Explain | Generate Function Comment | X
public function edit($id)
{
    $row = KategoriModel::findOrFail($id);
    return view('kategori.edit', ['data' => $row]);
}
```

Tambahkan baris pada kategoridatatable

```
return (new DataTable($query))
->addColumn('action', function ($row) {
    $btn = '<div class="d-flex gap-2">';
    $btn .= '<a href="/kategori/edit/" . $row->kategori_id . '" class="btn btn-sm btn-primary my-1">Edit</a>';
    $btn .= '<a href="/kategori/hapus/" . $row->kategori_id . '" class="btn btn-sm btn-danger my-1">Hapus</a>';
    $btn .= '</div>';
    return $btn;
});
```

Manage Kategori

[Add](#)

10 entries per page Search:

Kategori Id	Kategori Kode	Kategori Nama	Created At	Updated At	Action
3	SNK	Snack		2025-03-14T08:45:45.000000Z	<a href="#">Edit</a> <a href="#">Hapus</a>
2	minuman	Minuman			<a href="#">Edit</a> <a href="#">Hapus</a>
1	makanan	Makanan			<a href="#">Edit</a> <a href="#">Hapus</a>
5	elektronik	Elektronik			<a href="#">Edit</a> <a href="#">Hapus</a>
4	alat_tulis	Alat Tulis			<a href="#">Edit</a> <a href="#">Hapus</a>

Showing 1 to 5 of 5 entries

Kategori > Create

Edit kategori

**Kode Kategori**

**Nama Kategori**

[Submit](#)

4. Tambahkan action delete di datatables serta controllernya  
 Tambahkan baris pada kategoridatatable

```

return (new DataTableable($query))
->addColumn('action', function ($row) {
    $btn = '<div class="d-flex gap-2">';
    $btn .= '<a href="/kategori/edit/" . $row->kategori_id . '" class="btn btn-sm btn-primary my-1">Edit</a>';
    $btn .= '<a href="/kategori/hapus/" . $row->kategori_id . '" class="btn btn-sm btn-danger my-1">Hapus</a>';
    $btn .= '</div>';
    return $btn;
});

```

Edit controller dengan menambahkan fungsi delete

```

Codeium: Refactor | Explain | Generate Function Comment | X
public function delete($id)
{
    $row = KategoriModel::findOrFail($id);
    $row->delete();
    return redirect('/kategori');
}

```

Tambahkan rute delete

```

Route::get('/kategori/hapus/{id}', [KategoriController::class, 'delete']);

```

Uji coba

10 entries per page

Search:

Kategori Id	Kategori Kode	Kategori Nama	Created At	Updated At	Action
3	SNK	Snack		2025-03-14T08:45:45.000000Z	<a href="#">Edit</a> <a href="#">Hapus</a>
8	sefd	seafood	2025-03-14T09:32:24.000000Z	2025-03-14T09:32:24.000000Z	<a href="#">Edit</a> <a href="#">Hapus</a>
2	minuman	Minuman			<a href="#">Edit</a> <a href="#">Hapus</a>
1	makanan	Makanan			<a href="#">Edit</a> <a href="#">Hapus</a>
5	elektronik	Elektronik			<a href="#">Edit</a> <a href="#">Hapus</a>
4	alat_tulis	Alat Tulis			<a href="#">Edit</a> <a href="#">Hapus</a>

Hapus seafood

Add

10▼ entries per page

Search:

Kategori Id	Kategori Kode	Kategori Nama	Created At	Updated At	Action
3	SNK	Snack		2025-03-14T08:45:45.000000Z	<div>EditHapus</div>
2	minuman	Minuman			<div>EditHapus</div>
1	makanan	Makanan			<div>EditHapus</div>
5	elektronik	Elektronik			<div>EditHapus</div>
4	alat_tulis	Alat Tulis			<div>EditHapus</div>

Data terhapus