

PEMROGRAMAN WEB LANJUT

JOBSHEET 5



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TEKNIK INFORMATIKA

TEKNOLOGI INFORMASI

Praktikum 1 – Integrasi Laravel dengan AdminLte3

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

Jawab:

```
GalaAldebara@LAPTOP-OD4VKIRU MINGW64 /d/Polinema/Semester 4/Pemrograman Web Lanj
ut/pwl_pos (main)
$ composer require jeroennoten/laravel-adminlte
./composer.json has been updated
Running composer update jeroennoten/laravel-adminlte
Loading composer repositories with package information
Updating dependencies
Lock file operations: 2 installs, 0 updates, 0 removals
  - Locking almasaeed2010/adminlte (v3.2.0)
  - Locking jeroennoten/laravel-adminlte (v3.11.0)
Writing lock file
Installing dependencies from lock file (including require-dev)
Package operations: 2 installs, 0 updates, 0 removals
  - Downloading almasaeed2010/adminlte (v3.2.0)
  - Downloading jeroennoten/laravel-adminlte (v3.11.0)
  - Installing almasaeed2010/adminlte (v3.2.0): Extracting archive
  - Installing jeroennoten/laravel-adminlte (v3.11.0): Extracting archive
Generating optimized autoload files
> Illuminate\Foundation\ComposerScripts::postAutoloadDump
> @php artisan package:discover --ansi

 INFO  Discovering packages.
```

2. Melakukan instalasi requirement project di atas dengan command berikut:
Perintah di atas akan meng-install:

- **AdminLte distribution files** dan dependensinya (Bootstrap, jQuery, etc.)
- Konfigurasi package di file config/adminlte.php
- Paket translasi di folder lang/vendor/adminlte
- Dalam composer.json akan otomatis ditambahkan require untuk Laravel-adminlte

Jawab:

```
GalaAldebara@LAPTOP-OD4VKIRU MINGW64 /d/Polinema/Semester 4/Pemrograman Web Lanj
ut/pwl_pos (main)
$ php artisan adminlte:install
Basic assets installed successfully.
Configuration file installed successfully.
Translation files installed successfully.
The installation is complete.

GalaAldebara@LAPTOP-OD4VKIRU MINGW64 /d/Polinema/Semester 4/Pemrograman Web Lanj
ut/pwl_pos (main)
$ composer require laravel/ui
php artisan ui bootstrap --auth
./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
```

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

Jawab:

```
app.blade.php U X
resources > views > app.blade.php > ...
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
12 @section('content_header')
13     @hasSection('content_header_title')
14         <h1 class="text-muted">
15             @yield('content_header_title')
16
17             @hasSection('content_header_subtitle')
18                 <small class="text-dark">
19                     <i class="fas fa-xs fa-angle-right text-muted"></i>
20                     @yield('content_header_subtitle')
21                 </small>
22             @endif
23         </h1>
24     @endif
25 @stop
```

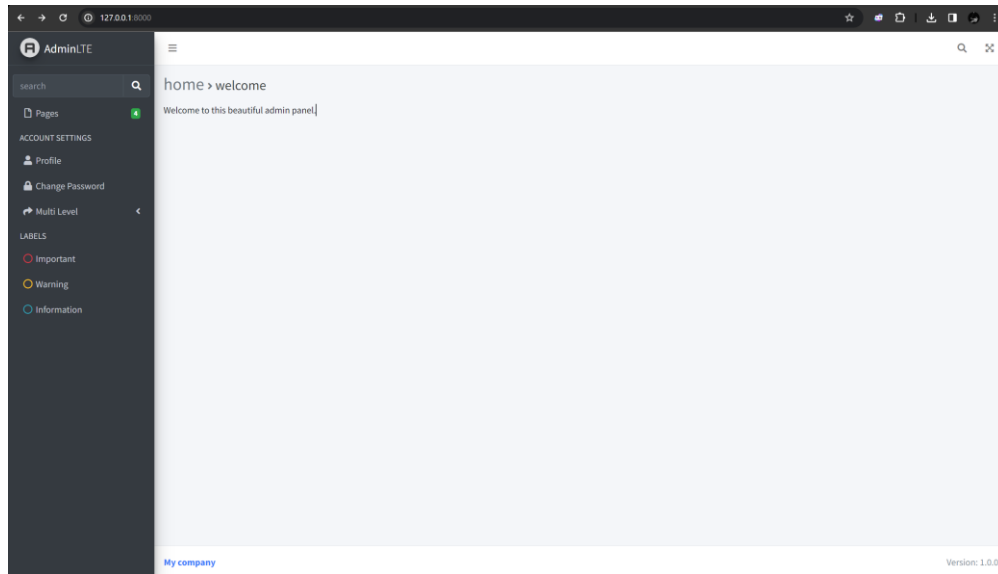
4. Edit resources/views/welcome.blade.php, kemudian replace seluruh kodenya dengan kode berikut.

Jawab:

```
app.blade.php U welcome.blade.php M X
resources > views > welcome.blade.php > ...
You, 1 second ago | 1 author (You)
1  @extends('layouts.app')
2
3  @section('subtitle', 'welcome')
4  @section('content_header_title', 'home')
5  @section('content_header_subtitle', 'welcome')
6
7  @section('content_body')
8      <p>Welcome to this beautiful admin panel.</p>
9  @stop
10
11 @push('css')
12 @endpush
13
14 @push('js')
15 <script>console.log("Hi, I'm using the Laravel-AdminLTE package!");</script>
16 @endpush
```

5. Kembali ke broser, menuju ke halaman awal

Jawab:



Praktikum 2 – Integrasi dengan DataTables

1. Install Laravel DataTables

Jawab:

```
GalaAldebara@LAPTOP-OD4VKIRU MINGW64 /d/Polinema/Semester 4/Pemrograman Web Lanj
ut/pwl_pos (main)
$ 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]? 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
```

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

Jawab:

```
GalaAldebara@LAPTOP-OD4VKIRU MINGW64 /d/Polinema/Semester 4/Pemrograman Web Lanjut/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)
```

3. Install Laravel DataTables Vite dan sass

Jawab:

```
GalaAldebara@LAPTOP-OD4VKIRU MINGW64 /d/Polinema/Semester 4/Pemrograman Web Lanjut/pwl_pos (main)
$ npm i laravel-datatables-vite --save-dev

added 9 packages, and audited 49 packages in 5s

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

found 0 vulnerabilities

GalaAldebara@LAPTOP-OD4VKIRU MINGW64 /d/Polinema/Semester 4/Pemrograman Web Lanjut/pwl_pos (main)
$ npm install -D sass

up to date, audited 49 packages in 785ms

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

found 0 vulnerabilities
```

4. Edit file resources/js/app.js

Jawab:

```
JS app.js M X child.blade.php U welcome.blad
resources > js > JS app.js
You, 1 second ago | 1 author (You)
1 import './bootstrap';
2 import '../sass/app.scss';
3 import 'laravel-datatables-vite'; You, 1 second ago • Uncomm
```

5. Buatlah file resources/saas/app.scss

Jawab:

```
resources > sass > app.scss
1 // Fonts
2 @import url('https://fonts.bunny.net/css?family=Nunito');
3
4 // Variables
5 // @import 'variables';
6
7 // Bootstrap
8 @import 'bootstrap/scss/bootstrap';
9
10 // DataTables
11 @import 'bootstrap-icons/font/bootstrap-icons.css';
12 @import "datatables.net-bs5/css/dataTables.bootstrap5.min.css";
13 @import "datatables.net-buttons-bs5/css/buttons.bootstrap.min.css";
14 @import "datatables.net-select-bs5/css/select.bootstrap5.css";
15
```

6. Jalankan dengan npm run dev

Jawab:

```
up to date, audited 49 packages in 785ms
10 packages are looking for funding
  run `npm fund` for details
found 0 vulnerabilities

GalaaAldebara@LAPTOP-OD4VKIRU MINGW64 /d/Polinema/Semester 4/Pemrograman Web Lanjut/pwl_pos (main)
$ npm run dev

> dev
> vite

VITE v5.2.4 ready in 446 ms
  → Local:   http://localhost:5173/
  → Network: use --host to expose

LARAVEL v10.45.1 plugin v1.0.2
  → APP_URL: http://localhost
```

7. Selanjutnya kita akan buat datatables untuk kategori

Jawab:

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS GITLENS powershell + - [] ... ^ x
PS D:\Polinema\Semester 4\Pemrograman Web Lanjut\pwl_pos> php artisan datatables:make Kategori
[INFO] DataTable [D:\Polinema\Semester 4\Pemrograman Web Lanjut\pwl_pos\app\DataTables\KategoriDataTable.php] created successfully.
PS D:\Polinema\Semester 4\Pemrograman Web Lanjut\pwl_pos>
```

8. Kita edit Kategori Datatable untuk mengatur kolom apa saja yang ingin ditampilkan.

Jawab:

```
app > DataTables > KategoriDataTable.php > PHP IntelliSense > KategoriDataTable
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('Bfrtip')
47             ->orderBy(1)
48             ->selectStyleSingle()
```

9. Ubah kategori model, sesuaikan seperti berikut

Jawab:

```
app > Models > KategoriModel.php > PHP Intelephense > KategoriModel
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  You, 2 minutes ago | 1 author (You)
10 class KategoriModel extends Model
11 {
12     protected $table = 'm_kategori';
13     protected $primaryKey = 'kategori_id';
14     protected $fillable = ['kategori_kode', 'kategori_nama'];
15     You, 2 minutes ago • Uncommitted changes
16     public function barang(): HasMany
17     {
18         return $this->hasMany(BarangModel::class, 'barang_id', 'barang_id');
19     }
20 }
21
```

10. Ubah kategori controller sesuaikan dengan skrip berikut:

Jawab:

```
app > Http > Controllers > KategoriController.php > ...
You, 39 seconds ago | 1 author (You)
1  <?php
2
3  namespace App\Http\Controllers;
4
5  use Illuminate\Http\Request;
6  use Illuminate\Routing\Controller;
7  use Illuminate\Support\Facades\DB;
8  use App\DataTables\KategoriDataTable;
9
10 You, 39 seconds ago | 1 author (You)
11 class KategoriController extends Controller
12 {
13     public function index(KategoriDataTable $dataTable)
14     {
15         return $dataTable->render('kategori.index');
16     }
17 }
```

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

Jawab:

```
goriController.php M  index.blade.php U  child.blade.php U  welcome.blade.php M  ▶ ⌂ 🏠 ...
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

Jawab:

```
35
36 Route::get('/home', [App\Http\Controllers\HomeController::class, 'index']);
37 Route::get('/kategori', [KategoriController::class, 'index']);
38
```


13. Sesuaikan app layout seperti kode berikut

Jawab:

```
resources > views > layouts > app.blade.php > h1.text-muted
1  @extends('adminlte::page')
2  {{-- Extend and customize the browser title --}}
3
4  @section('title')
5      {{ config('adminlte.title') }}
6  @hasSection('subtitle') | @yield('subtitle') @endif
7  @stop
8
9  @vite('resources/js/app.js')
10 {{-- Extend and customize the page content header --}}
11 @section('content_header')
12
13 @hasSection('content_header_title')
14 <h1 class="text-muted">
15 @yield('content_header_title')
16
17 @hasSection('content_header_subtitle')
18 <small class="text-dark">
19     <i class="fas fa-xs fa-angle-right text-muted"></i>
20     @yield('content_header_subtitle')
21 </small>
22 @endif
23 </h1>
24 @endif
25 @stop
26
27 {{-- Rename section content to content_body --}}
28
29 @section('content')
30 @yield('content_body')
31 @stop
32
33
34 {{-- Create a common footer --}}
35
36 @section('footer')
37 <div class="float-right">
38 Version: {{ config('app.version', '1.0.0') }}
39 </div>
40
41 <strong>
42 <a href="{{ config('app.company_url', '#') }}">
43 {{ config('app.company_name', 'My company') }}
44 </a>
45 </strong>
46 @stop
```

14. Menget ViteJs / script type defaults

Jawab:

```
app > Providers > AppServiceProvider.php > PHP Intelephense > AppServiceProvider
You, 3 minutes ago | 1 author (You)
1  <?php
2
3  namespace App\Providers;
4
5  use Illuminate\Support\ServiceProvider;
6  use Yajra\DataTables\Html\Builder;
7
8  You, 3 minutes ago | 1 author (You)
9  class AppServiceProvider extends ServiceProvider
10 {
11     /**
12      * Register any application services.
13      */
14     public function register(): void
15     {
16         //
17     }
18
19     You, 2 weeks ago • Menambahkan File Jobsheet Pertemuan3
20     /**
21      * Bootstrap any application services.
22      */
23     public function boot(): void
24     {
25         Builder::useVite();
26     }
27 }
```

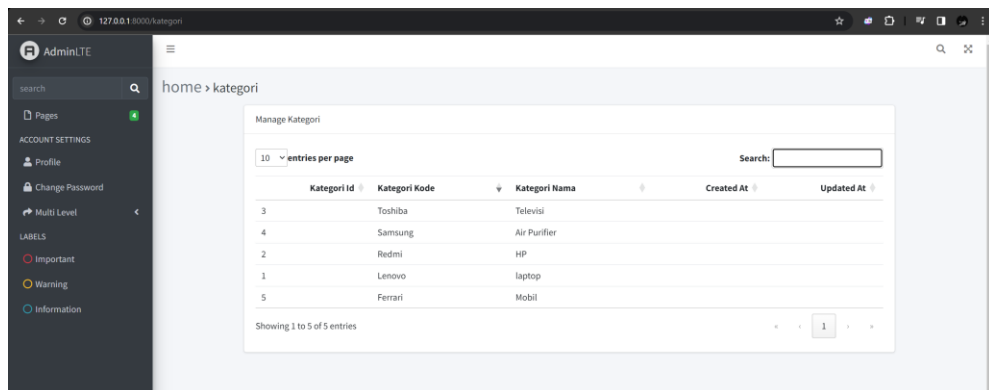
15. Isikan beberapa data ke table kategori

Jawab:

		kategori_id	kategori_kode	kategori_nama	created_at	updated_at
<input type="checkbox"/>	Edit Copy Delete	1	Lenovo	laptop	NULL	NULL
<input type="checkbox"/>	Edit Copy Delete	2	Redmi	HP	NULL	NULL
<input type="checkbox"/>	Edit Copy Delete	3	Toshiba	Televisi	NULL	NULL
<input type="checkbox"/>	Edit Copy Delete	4	Samsung	Air Purifier	NULL	NULL
<input type="checkbox"/>	Edit Copy Delete	5	Ferrari	Mobil	NULL	NULL

16. Datatables sudah dapat di load di /kategori

Jawab:



Praktikum 14 – Membuat form kemudian menyimpan data dalam database

1. Menyesuaikan routing, tambahkan dua routing berikut

Jawab:

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

2. Tambahkan dua function berikut dalam KategoriController

Jawab:

```
18 public function create()
19 {
20     return view('kategori.create');
21 }
22
23 public function store(Request $request)
24 {
25     KategoriModel::create([
26         'kategori_kode' => $request->kodeKategori,
27         'kategori_nama' => $request->namaKategori,
28     ]);
29     return redirect('/kategori');
30 }
31 }
```

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

Jawab:

```
resources > views > kategori > create.blade.php > div.container > div.card.card-primary > form > div.card-body > di
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">
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                     </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
```

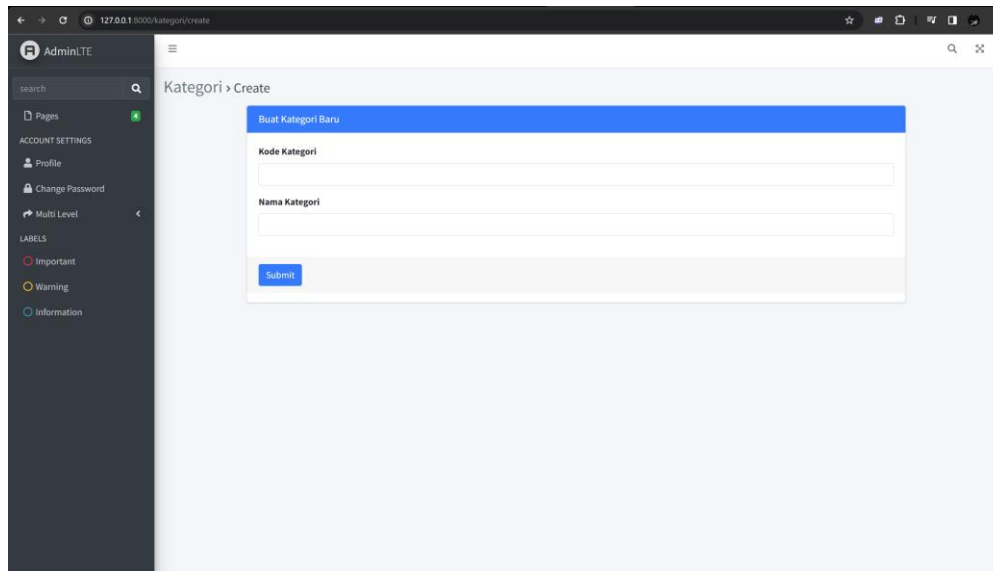
4. Kita lakukan pengecualian proteksi CsrfToken. Karena kita belum melakukan autentikasi. Kita edit dalam file berikut

Jawab:

```
app > Http > Middleware > VerifyCsrfToken.php > PHP Intelephense > VerifyCsrfToken > $except
You, 1 second ago | 1 author (You)
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

Jawab:

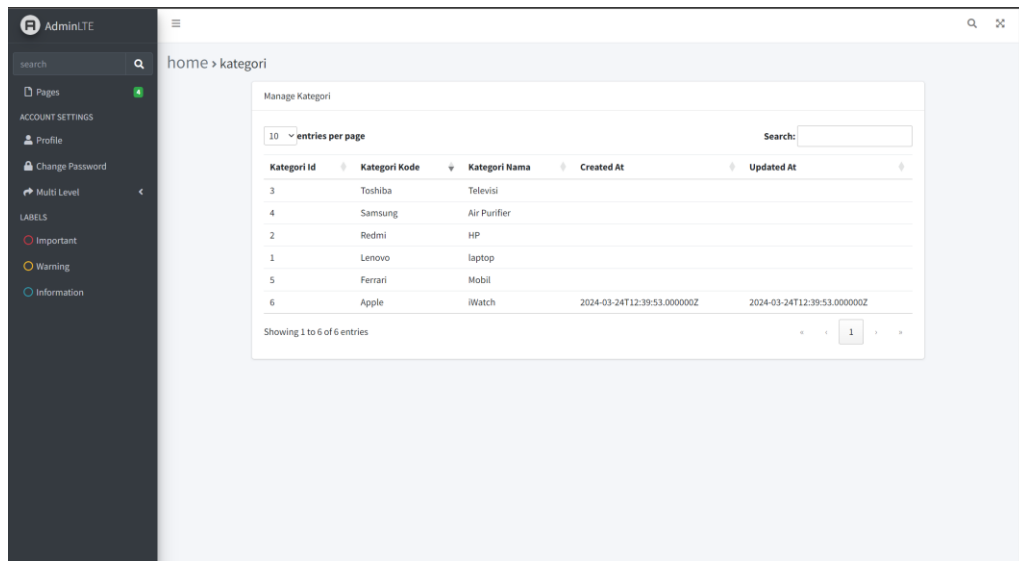


The screenshot shows a web application interface for creating a new category. The sidebar on the left contains navigation links for 'Pages', 'ACCOUNT SETTINGS', 'Profile', 'Change Password', 'Multi Level', and 'LABELS'. The main content area is titled 'Kategori > Create' and features a form with the following elements:

- A blue header bar with the text 'Buat Kategori Baru'.
- A text input field labeled 'Kode Kategori'.
- A text input field labeled 'Nama Kategori'.
- A blue 'Submit' button.

6. Halaman kategori

Jawab:



Tugas Praktikum

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

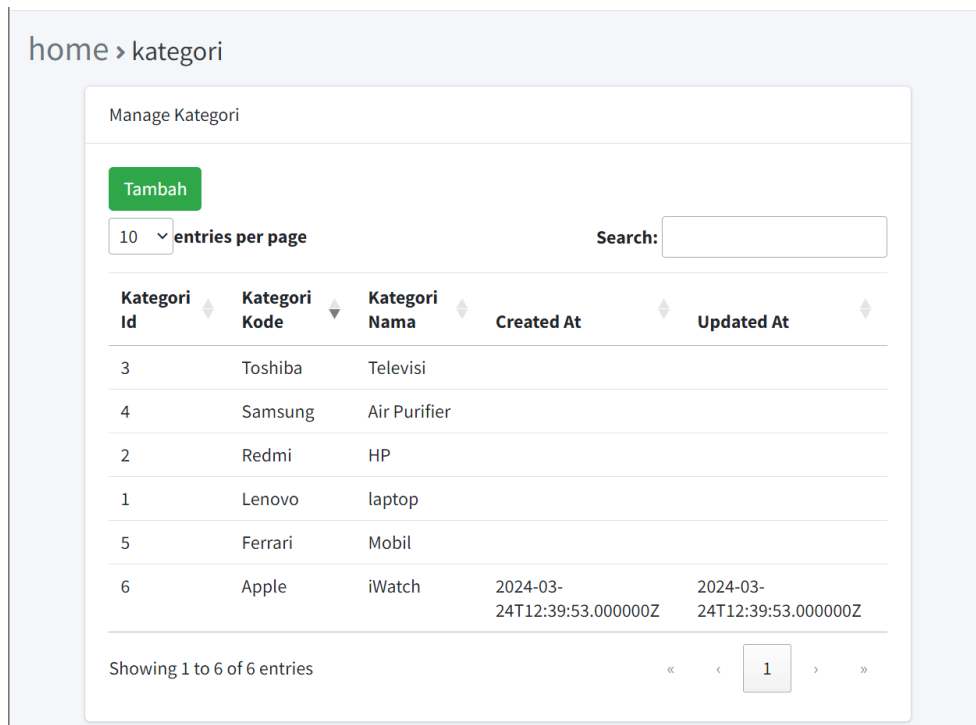
Jawab:

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

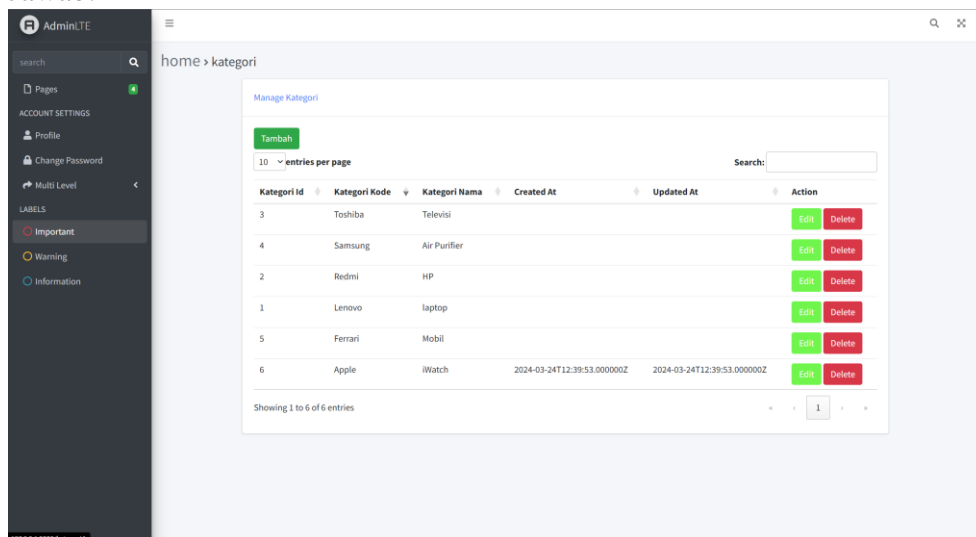
@section('subtitle', 'kategori')
@section('content_header_title', 'home')
@section('content_header_subtitle', 'kategori')

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

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

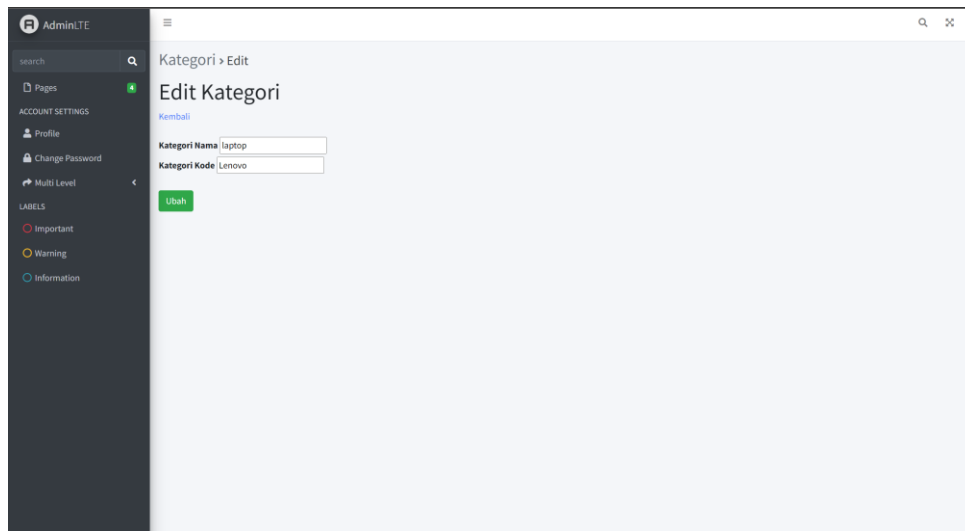


2. Tambahkan menu untuk halaman manage kategori, di daftar menu navbar
Jawab:



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

Jawab:



Edit.blade.php

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

@section('subtitle', 'Kategori')
@section('content_header_title', 'Kategori')
@section('content_header_subtitle', 'Edit')

@section('content')
    <div>
        <h1>Edit Kategori</h1>
        <a href="{{ url('/kategori') }}">Kembali</a>
        <br><br>

        <form method="post" action="{{ url('/kategori/edit/' . $data->kategori_id) }}">
            @csrf
            @method('PUT')

            <label>Kategori Nama</label>
            <input type="text" name="kategori_nama"
placeholder="Masukkan Nama" value="{{ $data->kategori_nama }}">
            <br>
            <label>Kategori Kode</label>
            <input type="text" name="kategori_kode"
placeholder="Masukkan Kode" value="{{ $data->kategori_kode }}">
            <br><br>
            <input type="submit" class="btn btn-success" value="Ubah">
        </form>
    </div>
@endsection
```

KategoriController

```
public function edit($id)
{
    $user = KategoriModel::find($id);
    return view('kategori.edit', ['data' => $user]);
}

public function edit_simpan($id, Request $request)
{
    $user = KategoriModel::find($id);

    $user->kategori_kode = $request->kategori_kode;
    $user->kategori_nama = $request->kategori_nama;

    $user->save();

    return redirect('/kategori');
}
```

Routes

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

4. Tambahkan action delete di datatables serta controllernya
Jawab:

```
public function dataTable(QueryBuilder $query): EloquentDataTable
{
    return (new EloquentDataTable($query))
        ->addColumn('action', function ($row) {
            return '<a href="/kategori/edit/' . $row->kategori_id . '"
style="background-color: #6cf542; color: white;" class="btn">Edit</a>
            <a href="..kategori/delete/' . $row->kategori_id . '" class="btn
btn-danger">Delete</a>';
        })
        ->setRowId('id');
}
```

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

```
public function destroy($id)
{
    $user = KategoriModel::find($id)->delete();
    $user->delete();
}
```


}

Pages

ACCOUNT SETTINGS

Profile

Change Password

Multi Level

LABELS

Important

Warning

Information

Manage Kategori

Tambah

10 entries per page

Search:

Kategori Id	Kategori Kode	Kategori Nama	Created At	Updated At	Action
3	Toshiba	Televisi			<div>Edit</div> <div>Delete</div>
4	Samsung	Air Purifier			<div>Edit</div> <div>Delete</div>
2	Redmi	HP			<div>Edit</div> <div>Delete</div>
1	Lenovo	laptop			<div>Edit</div> <div>Delete</div>
5	Ferrari	Mobil			<div>Edit</div> <div>Delete</div>
6	Apple	iWatch	2024-03-24T12:39:53.000000Z	2024-03-24T12:39:53.000000Z	<div>Edit</div> <div>Delete</div>

Showing 1 to 6 of 6 entries

1

My company

Version: 1.0.0