# JOBSHEET 05

# Blade View, Web Templating(AdminLTE), Datatables

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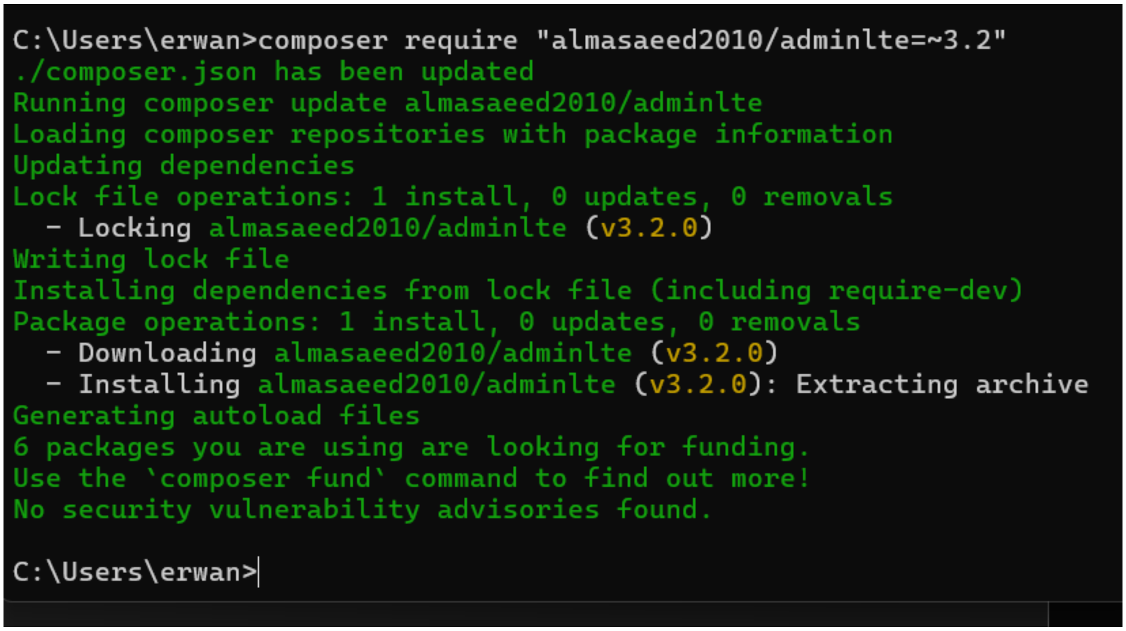
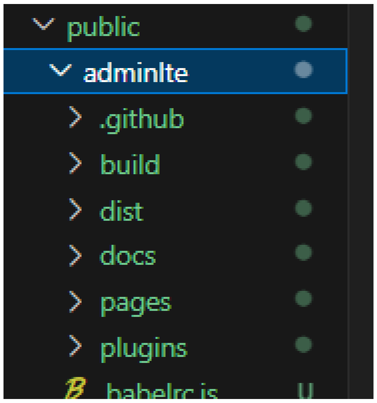
- Practicum 1 - Layouting AdminLTE:

1. We downloaded AdminLTE v3.2.0 which was released on Feb 8, 2022

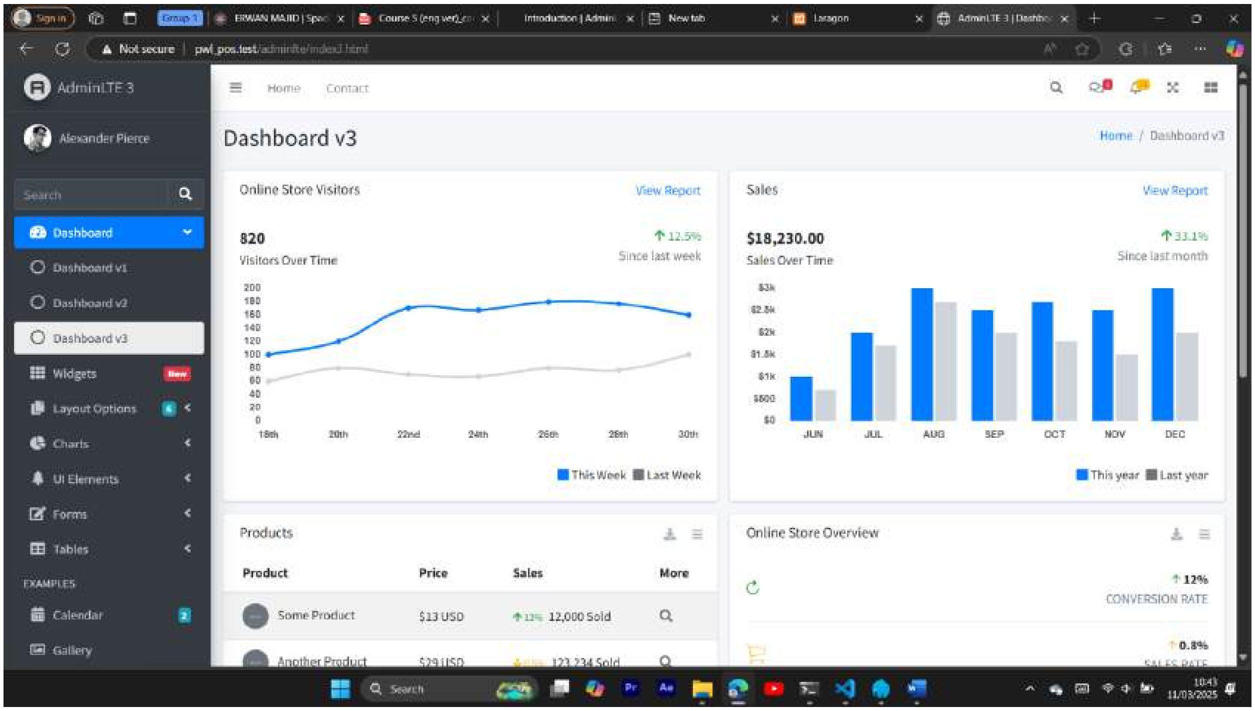


```
C:\Users\erwan>composer require "almasaeed2010/adminlte=~3.2"
./composer.json has been updated
Running composer update almasaeed2010/adminlte
Loading composer repositories with package information
Updating dependencies
Lock file operations: 1 install, 0 updates, 0 removals
  - Locking almasaeed2010/adminlte (v3.2.0)
Writing lock file
Installing dependencies from lock file (including require-dev)
Package operations: 1 install, 0 updates, 0 removals
  - Downloading almasaeed2010/adminlte (v3.2.0)
  - Installing almasaeed2010/adminlte (v3.2.0): Extracting archive
Generating autoload files
6 packages you are using are looking for funding.
Use the `composer fund` command to find out more!
No security vulnerability advisories found.

C:\Users\erwan>
```

2. Once we successfully download, we extract the downloaded file to the project PWL_POS/public folder, then we rename the folder simply to adminlte

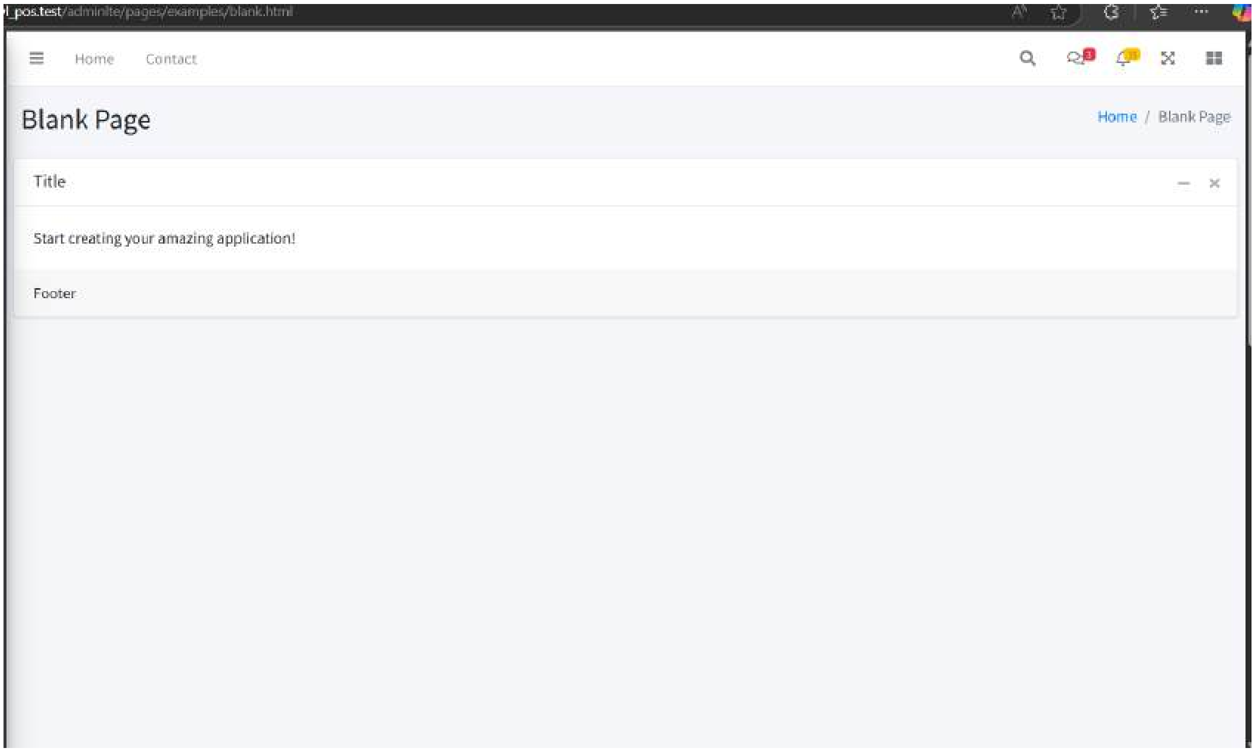


3. Next, we open it in a browser with http://localhost/PWL_POS/public/adminlte address, then the following display will appear



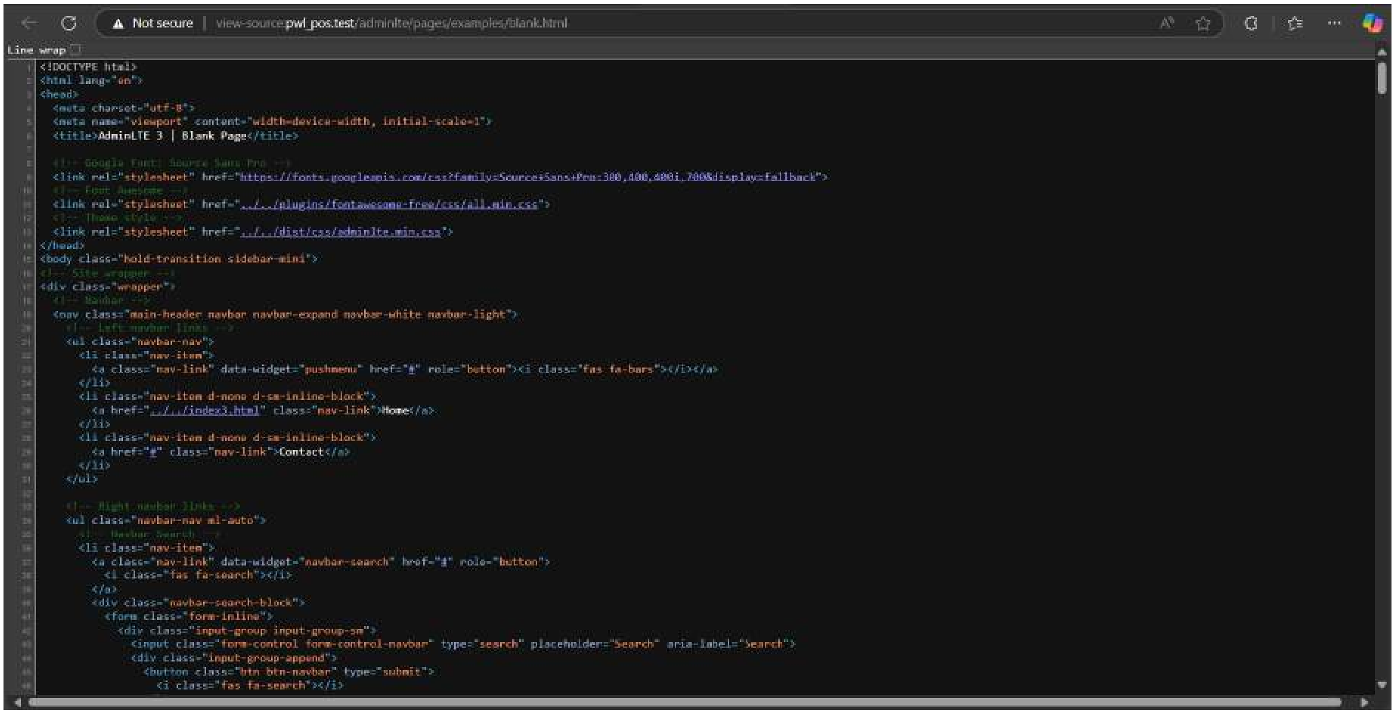
| Product | Price | Sales | More |
|---|---|---|---|
| Some Product | $13 USD | 12% 12,000 Sold | |
| Another Product | $29 USD | 0.5% 123,234 Sold | |

4. We click on the Extras > Blank Page menu, this page will be the basis of the web template



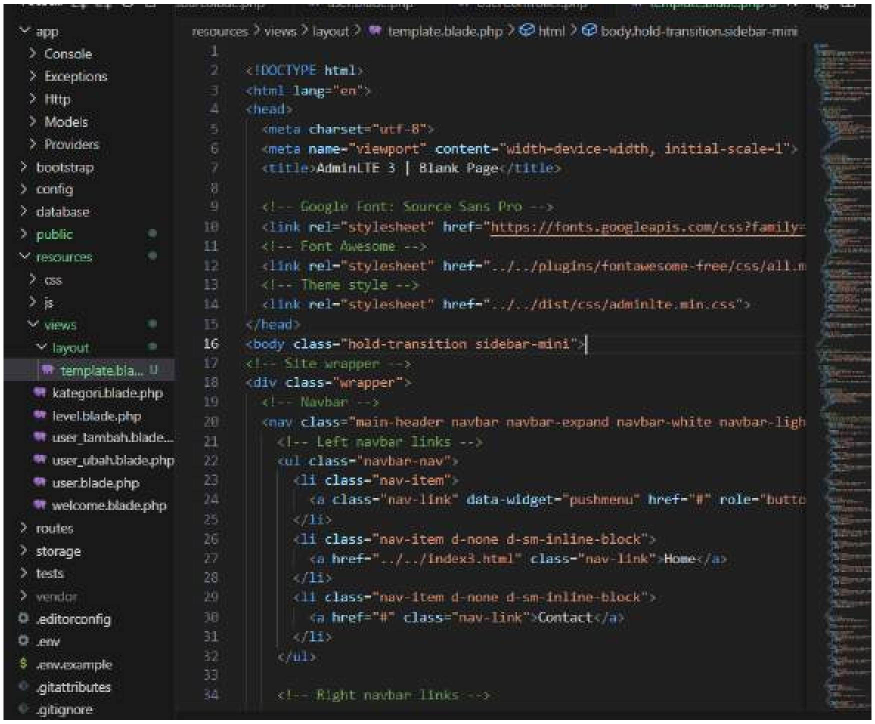
Start creating your amazing application!

5. Next, we right-click the Blank Page page and click view page source



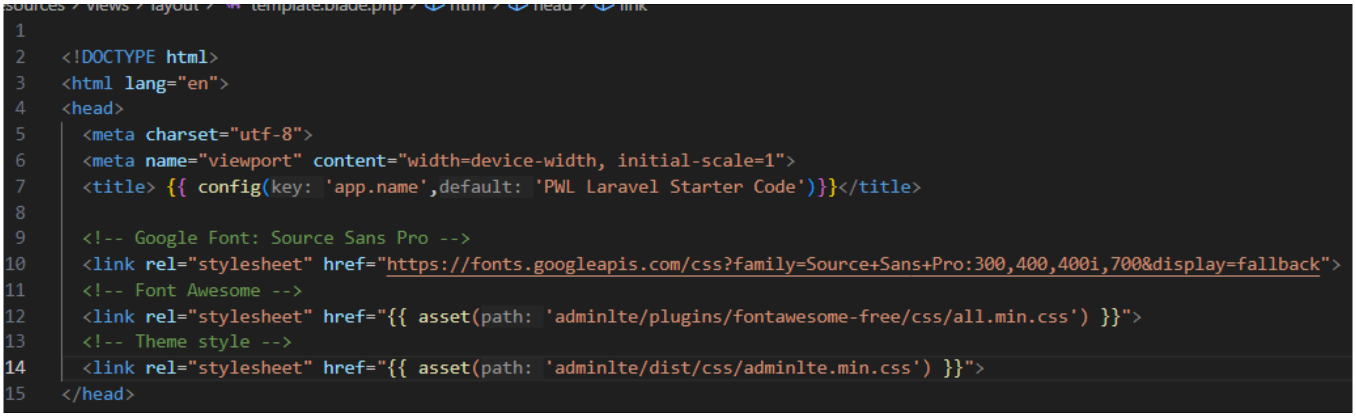
```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <title>AdminLTE 3 | Blank Page</title>

  <!-- Google Font: Source Sans Pro -->
  <link rel="stylesheet" href="https://fonts.googleapis.com/css?family=Source+Sans+Pro:300,400,400i,700&display=fallback">
  <!-- Font Awesome -->
  <link rel="stylesheet" href="../../plugins/fontawesome-free/css/all.min.css">
  <!-- Theme style -->
  <link rel="stylesheet" href="../../dist/css/adminlte.min.css">
</head>
<body class="hold-transition sidebar-mini">
<!-- Site wrapper -->
<div class="wrapper">
  <!-- Navbar -->
  <nav class="main-header navbar navbar-expand navbar-white navbar-light">
    <!-- Left navbar links -->
    <ul class="navbar-nav">
      <li class="nav-item">
        <a class="nav-link" data-widget="pushmenu" href="#" role="button"><i class="fas fa-bars"></i></a>
      </li>
      <li class="nav-item d-none d-sm-inline-block">
        <a href="../../index3.html" class="nav-link">Home</a>
      </li>
      <li class="nav-item d-none d-sm-inline-block">
        <a href="#" class="nav-link">Contact</a>
      </li>
    </ul>

    <!-- Right navbar links -->
    <ul class="navbar-nav ml-auto">
      <!-- Navbar Search -->
      <li class="nav-item">
        <a class="nav-link" data-widget="navbar-search" href="#" role="button">
          <i class="fas fa-search"></i>
        </a>
        <div class="navbar-search-block">
          <form class="form-inline">
            <div class="input-group input-group-sm">
              <input class="form-control form-control-navbar" type="search" placeholder="Search" aria-label="Search">
              <div class="input-group-append">
                <button class="btn btn-navbar" type="submit">
                  <i class="fas fa-search"></i>
```

6. Next, we copy the page source from  the Blank Page page, then we paste it at PWL_POS/resource/view/layouts/template.blade.php (first create  the layouts folder  and template.blade.php file)



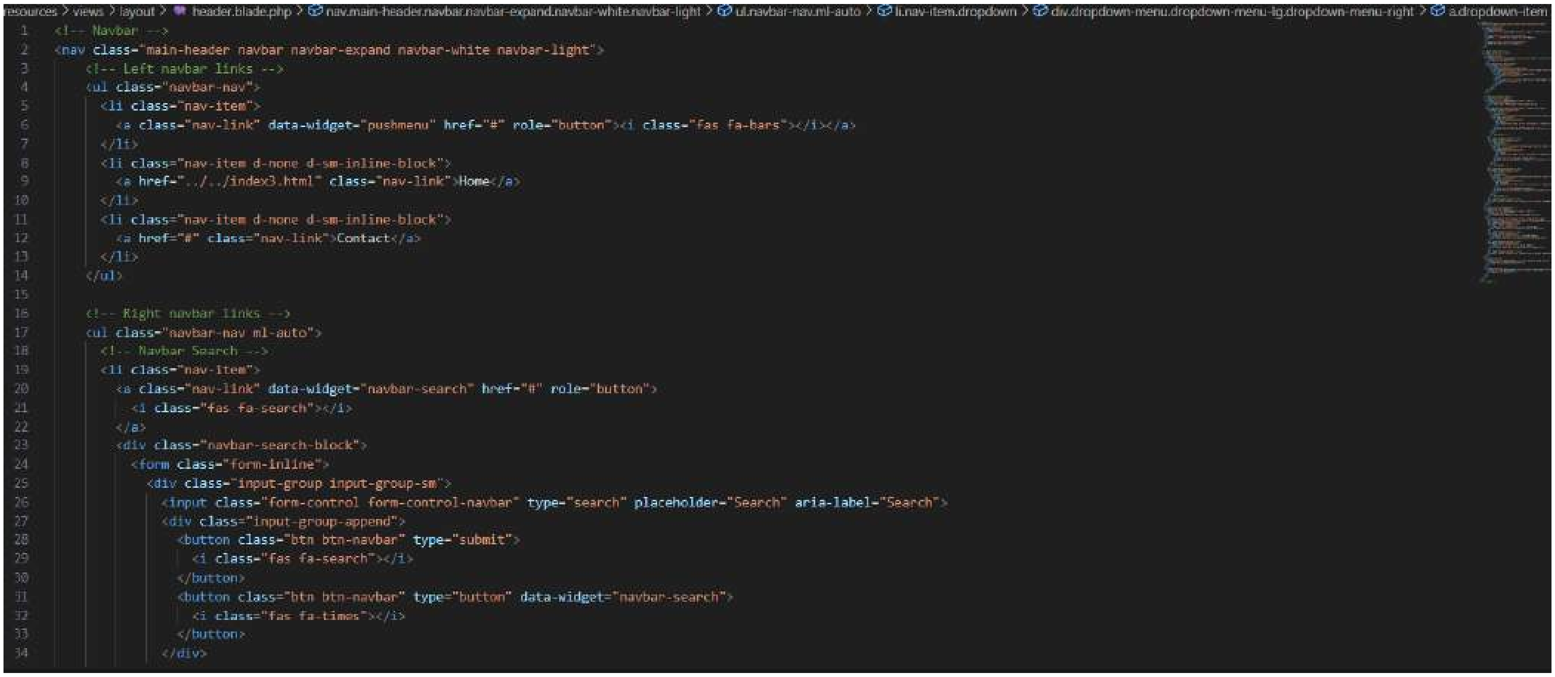
```

<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <title>AdminLTE 3 | Blank Page</title>

  <!-- Google Font: Source Sans Pro -->
  <link rel="stylesheet" href="https://fonts.googleapis.com/css?family=
  <!-- Font Awesome -->
  <link rel="stylesheet" href="../../plugins/fontawesome-free/css/all.m
  <!-- Theme style -->
  <link rel="stylesheet" href="../../dist/css/adminlte.min.css">
</head>
<body class="hold-transition sidebar-mini">
<!-- Site wrapper -->
<div class="wrapper">
  <!-- Navbar -->
  <nav class="main-header navbar navbar-expand navbar-white navbar-ligh
    <!-- Left navbar links -->
    <ul class="navbar-nav">
      <li class="nav-item">
        <a class="nav-link" data-widget="pushmenu" href="#" role="butto
      </li>
      <li class="nav-item d-none d-sm-inline-block">
        <a href="../../index3.html" class="nav-link">Home</a>
      </li>
      <li class="nav-item d-none d-sm-inline-block">
        <a href="#" class="nav-link">Contact</a>
      </li>
    </ul>

    <!-- Right navbar links -->
```

7. On lines 1-14 of the template.blade.php file, we modify the


sources > views > layout > template.blade.php > html > head > link

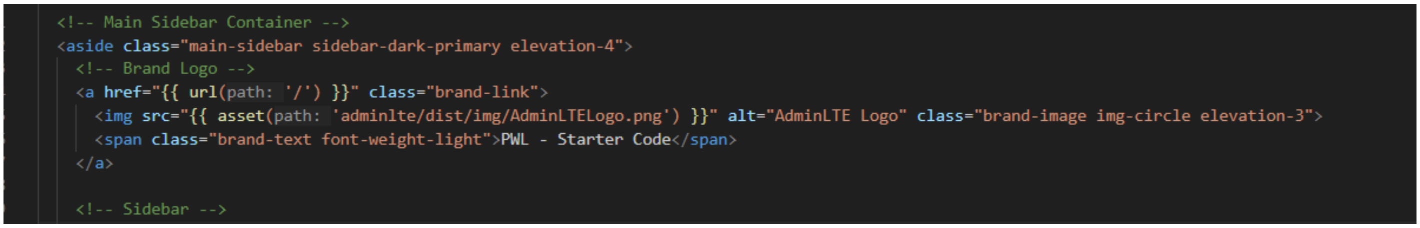
```
1
2   <!DOCTYPE html>
3   <html lang="en">
4   <head>
5     <meta charset="utf-8">
6     <meta name="viewport" content="width=device-width, initial-scale=1">
7     <title> {{ config(key: 'app.name',default: 'PWL Laravel Starter Code')}}</title>
8
9     <!-- Google Font: Source Sans Pro -->
10    <link rel="stylesheet" href="https://fonts.googleapis.com/css?family=Source+Sans+Pro:300,400,400i,700&display=fallback">
11    <!-- Font Awesome -->
12    <link rel="stylesheet" href="{{ asset(path: 'adminlte/plugins/fontawesome-free/css/all.min.css') }}">
13    <!-- Theme style -->
14    <link rel="stylesheet" href="{{ asset(path: 'adminlte/dist/css/adminlte.min.css') }}">
15  </head>
```

8. Then we block lines 19-153 (the line for element 1-header), then we cut, and paste it in  the file PWL_POS/resource/view/layouts/header.blade.php (create  a header.blade.php file first if it doesn't already exist). So that the display of the template.blade.php file  is as follows


resources > views > layout > header.blade.php > nav.main-header.navbar.navbar-expand.navbar-white.navbar-light > ul.navbar-nav.ml-auto > li.nav-item.dropdown > div.dropdown-menu.dropdown-menu-lg.dropdown-menu-right > a.dropdown-item

```
<!-- Navbar -->
<nav class="main-header navbar navbar-expand navbar-white navbar-light">
    <!-- Left navbar links -->
    <ul class="navbar-nav">
      <li class="nav-item">
        <a class="nav-link" data-widget="pushmenu" href="#" role="button"><i class="fas fa-bars"></i></a>
      </li>
      <li class="nav-item d-none d-sm-inline-block">
        <a href="../../index3.html" class="nav-link">Home</a>
      </li>
      <li class="nav-item d-none d-sm-inline-block">
        <a href="#" class="nav-link">Contact</a>
      </li>
    </ul>

    <!-- Right navbar links -->
    <ul class="navbar-nav ml-auto">
      <!-- Navbar Search -->
      <li class="nav-item">
        <a class="nav-link" data-widget="navbar-search" href="#" role="button">
          <i class="fas fa-search"></i>
        </a>
        <div class="navbar-search-block">
          <form class="form-inline">
            <div class="input-group input-group-sm">
              <input class="form-control form-control-navbar" type="search" placeholder="Search" aria-label="Search">
              <div class="input-group-append">
                <button class="btn btn-navbar" type="submit">
                  <i class="fas fa-search"></i>
                </button>
                <button class="btn btn-navbar" type="button" data-widget="navbar-search">
                  <i class="fas fa-times"></i>
                </button>
              </div>
```

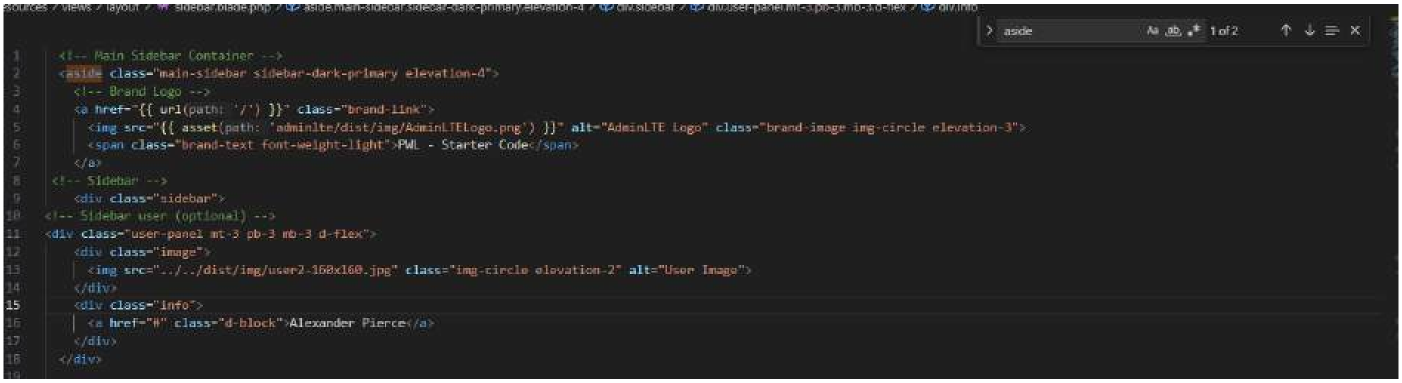
9. We modified lines 25 and 26 in template.blade.php



```
  <!-- Main Sidebar Container -->
  <aside class="main-sidebar sidebar-dark-primary elevation-4">
    <!-- Brand Logo -->
    <a href="{{ url(path: '/') }}" class="brand-link">
      <img src="{{ asset(path: 'adminlte/dist/img/AdminLTELogo.png') }}" alt="AdminLTE Logo" class="brand-image img-circle elevation-3">
      <span class="brand-text font-weight-light">PWL - Starter Code</span>
    </a>

    <!-- Sidebar -->
```

10. Next, we block lines 31-693 (the line for element 2-sidebar), then we cut, and paste them in the file PWL_POS/resource/view/layouts/sidebar.blade.php (create a sidebar.blade.php file first if it doesn't already exist). So that the display of the template.blade.php file is as follows

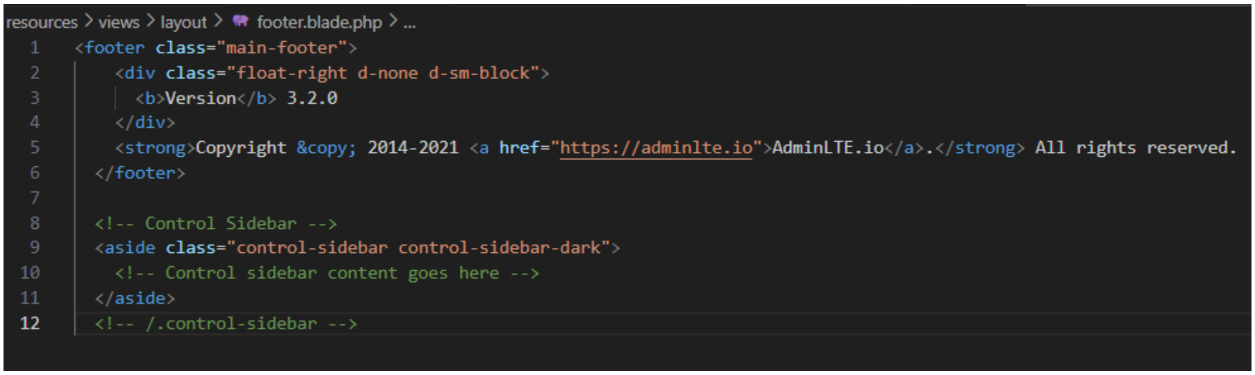
-


sources > views > layout > sidebar.blade.php > aside.main-sidebar.sidebar-dark-primary.elevation-4 > div.sidebar > div.user-panel.mt-3.pb-3.mb-3.d-flex > div.info
aside
1 of 2

```
  <!-- Main Sidebar Container -->
  <aside class="main-sidebar sidebar-dark-primary elevation-4">
    <!-- Brand Logo -->
    <a href="{{ url(path: '/') }}" class="brand-link">
      <img src="{{ asset(path: 'adminlte/dist/img/AdminLTELogo.png') }}" alt="AdminLTE Logo" class="brand-image img-circle elevation-3">
      <span class="brand-text font-weight-light">PWL - Starter Code</span>
    </a>
 <!-- Sidebar -->
    <div class="sidebar">
<!-- Sidebar user (optional) -->
<div class="user-panel mt-3 pb-3 mb-3 d-flex">
    <div class="image">
      <img src="../../dist/img/user2-160x160.jpg" class="img-circle elevation-2" alt="User Image">
    </div>
    <div class="info">
      <a href="#" class="d-block">Alexander Pierce</a>
    </div>
  </div>
```

11. Next look at lines 87-98 (the line for the 5-footer element), then we cut, and paste it in the file PWL_POS/resource/view/layouts/footer.blade.php (create a footer.blade.php file if it doesn't already exist). So that the display of the template.blade.php file is as follows

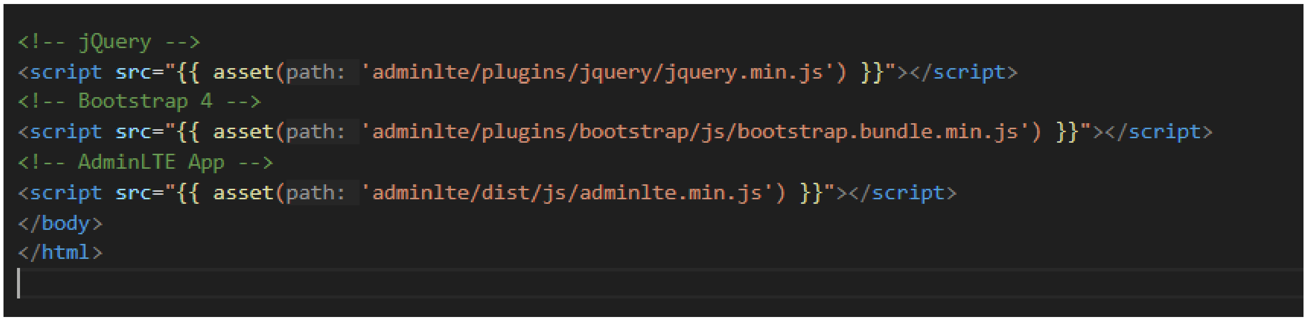
-



```
    <footer class="main-footer">
        <div class="float-right d-none d-sm-block">
          <b>Version</b> 3.2.0
        </div>
        <strong>Copyright &copy; 2014-2021 <a href="https://adminlte.io">AdminLTE.io</a>.</strong> All rights reserved.
      </footer>

      <!-- Control Sidebar -->
      <aside class="control-sidebar control-sidebar-dark">
        <!-- Control sidebar content goes here -->
      </aside>
      <!-- /.control-sidebar -->
```

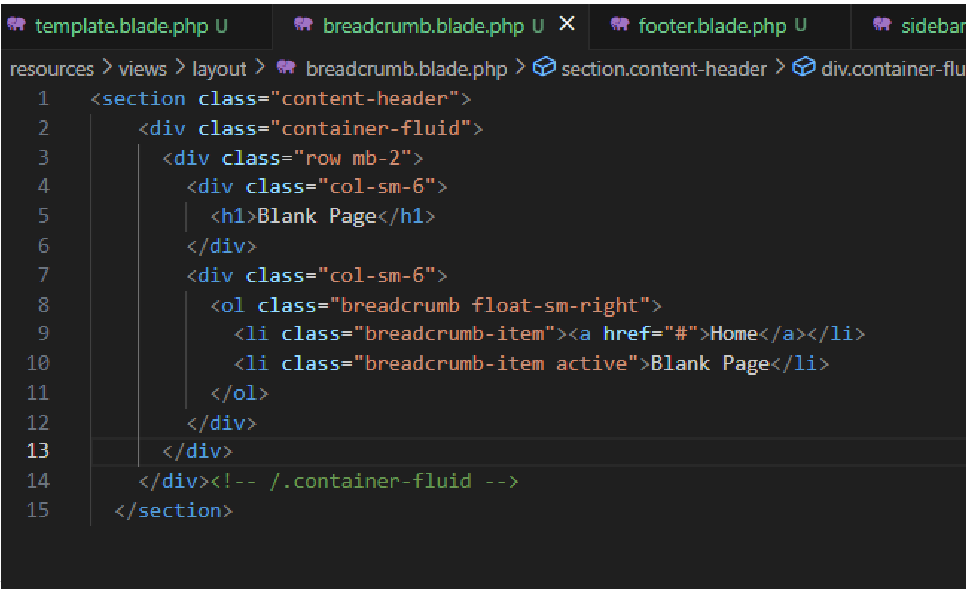
12. Then we modify the file template.blade.php lines 91-100

-



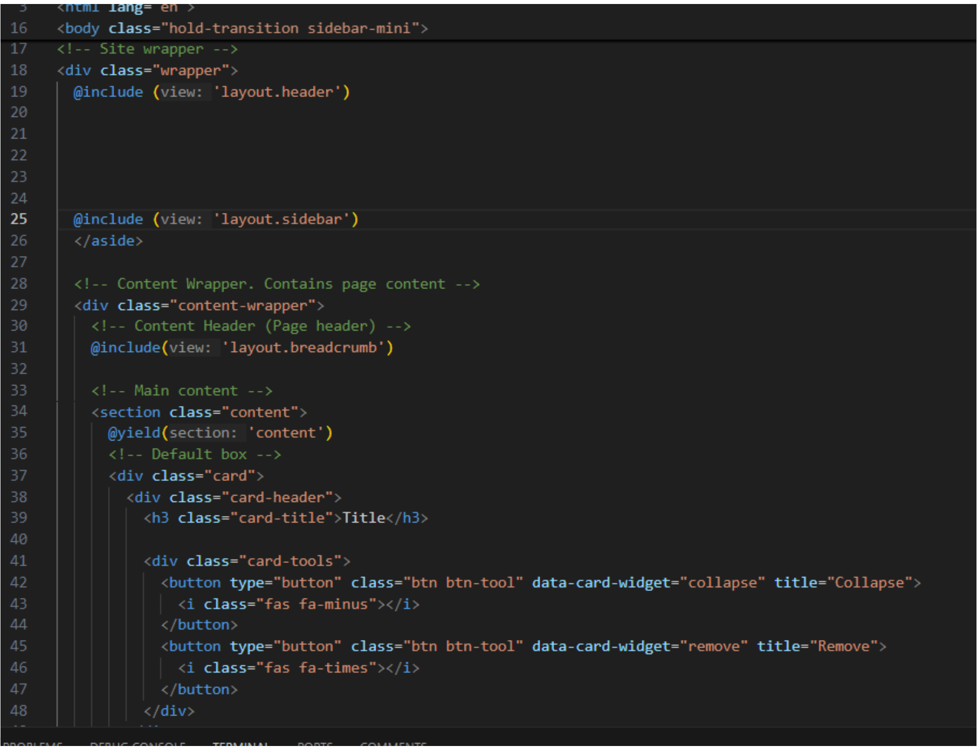
```
<!-- jQuery -->
<script src="{{ asset(path: 'adminlte/plugins/jquery/jquery.min.js') }}"></script>
<!-- Bootstrap 4 -->
<script src="{{ asset(path: 'adminlte/plugins/bootstrap/js/bootstrap.bundle.min.js') }}"></script>
<!-- AdminLTE App -->
<script src="{{ asset(path: 'adminlte/dist/js/adminlte.min.js') }}"></script>
</body>
</html>
```

13. Notice the template.blade.php file on lines 38-52 we make as a 4-breadcrumb element. We block lines 38-52 and then we cut, and paste them in the file (create PWL_POS/resource/view/layouts/breadcrumb.blade.php a breadcrumb.blade.php file if it doesn't already exist). So that the display of the template.blade.php file is as follows


template.blade.php U
breadcrumb.blade.php U
footer.blade.php U
sidebar
resources > views > layout > breadcrumb.blade.php > section.content-header > div.container-flu

```
<section class="content-header">
    <div class="container-fluid">
      <div class="row mb-2">
        <div class="col-sm-6">
          <h1>Blank Page</h1>
        </div>
        <div class="col-sm-6">
          <ol class="breadcrumb float-sm-right">
            <li class="breadcrumb-item"><a href="#">Home</a></li>
            <li class="breadcrumb-item active">Blank Page</li>
          </ol>
        </div>
      </div>
    </div><!-- /.container-fluid -->
  </section>
```

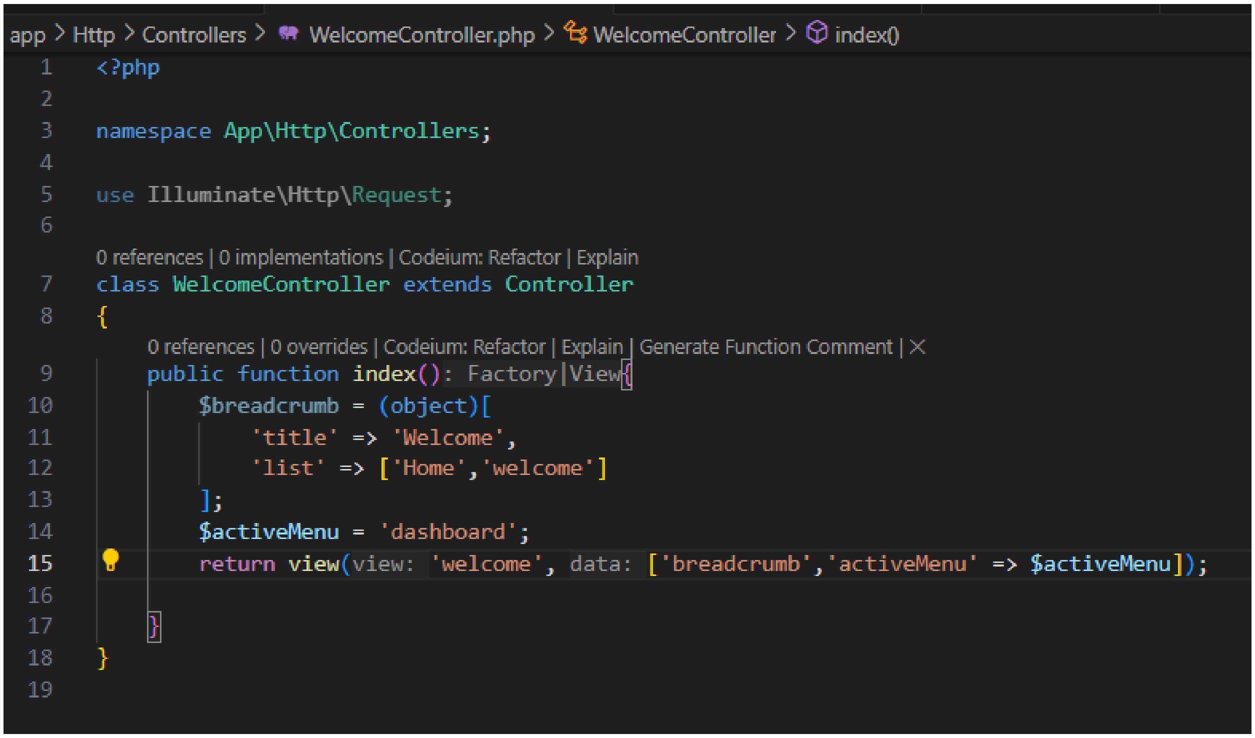
14. For content, we'll remove lines 42-66 in file template.blade.php. and replace it with code like this @yield('content')



```
<html lang="en">
<body class="hold-transition sidebar-mini">
<!-- Site wrapper -->
<div class="wrapper">
  @include (view: 'layout.header')





  @include (view: 'layout.sidebar')
  </aside>

  <!-- Content Wrapper. Contains page content -->
  <div class="content-wrapper">
    <!-- Content Header (Page header) -->
    @include(view: 'layout.breadcrumb')

    <!-- Main content -->
    <section class="content">
      @yield(section: 'content')
      <!-- Default box -->
      <div class="card">
        <div class="card-header">
          <h3 class="card-title">Title</h3>

          <div class="card-tools">
            <button type="button" class="btn btn-tool" data-card-widget="collapse" title="Collapse">
              <i class="fas fa-minus"></i>
            </button>
            <button type="button" class="btn btn-tool" data-card-widget="remove" title="Remove">
              <i class="fas fa-times"></i>
            </button>
          </div>
```

- Practicum 2 - Application of Layouting:

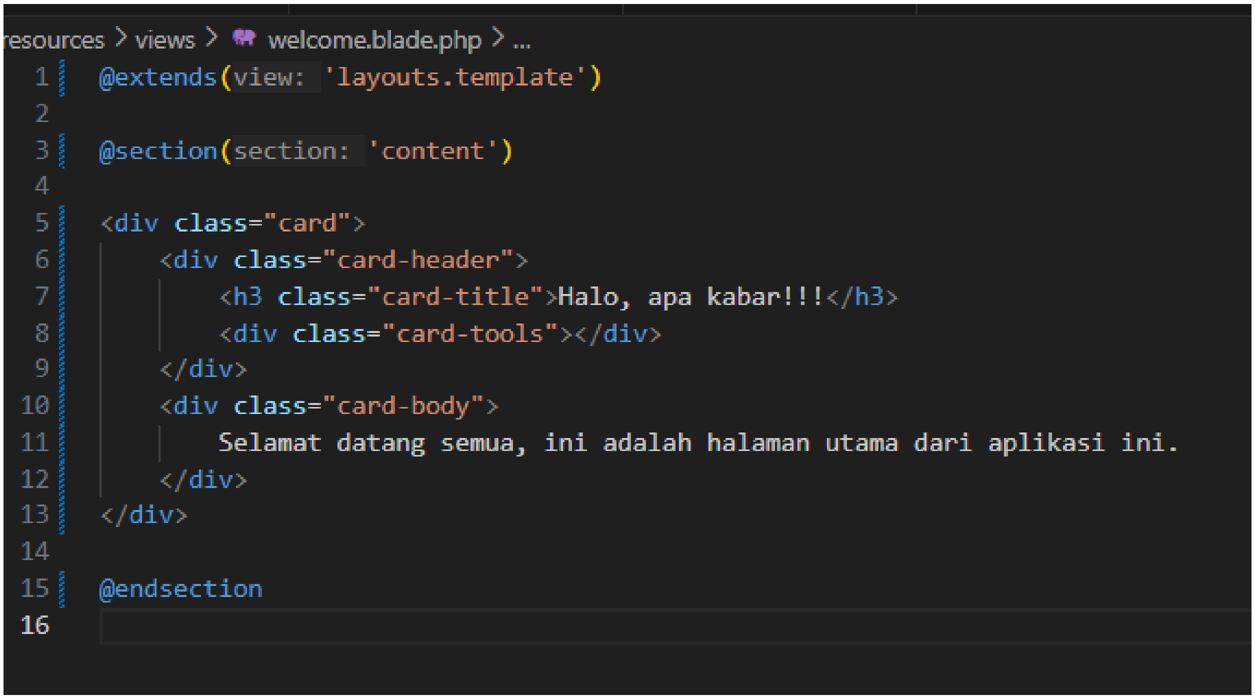
1. Let's create a controller file with the name WelcomeController.php



app > Http > Controllers > WelcomeController.php > WelcomeController > index()

```
<?php

namespace App\Http\Controllers;

use Illuminate\Http\Request;

0 references | 0 implementations | Codeium: Refactor | Explain
class WelcomeController extends Controller
{
    0 references | 0 overrides | Codeium: Refactor | Explain | Generate Function Comment | ✕
    public function index(): Factory|View{
        $breadcrumb = (object)[
            'title' => 'Welcome',
            'list' => ['Home','welcome']
        ];
        $activeMenu = 'dashboard';
        return view(view: 'welcome', data: ['breadcrumb','activeMenu' => $activeMenu]);

    }
}

```

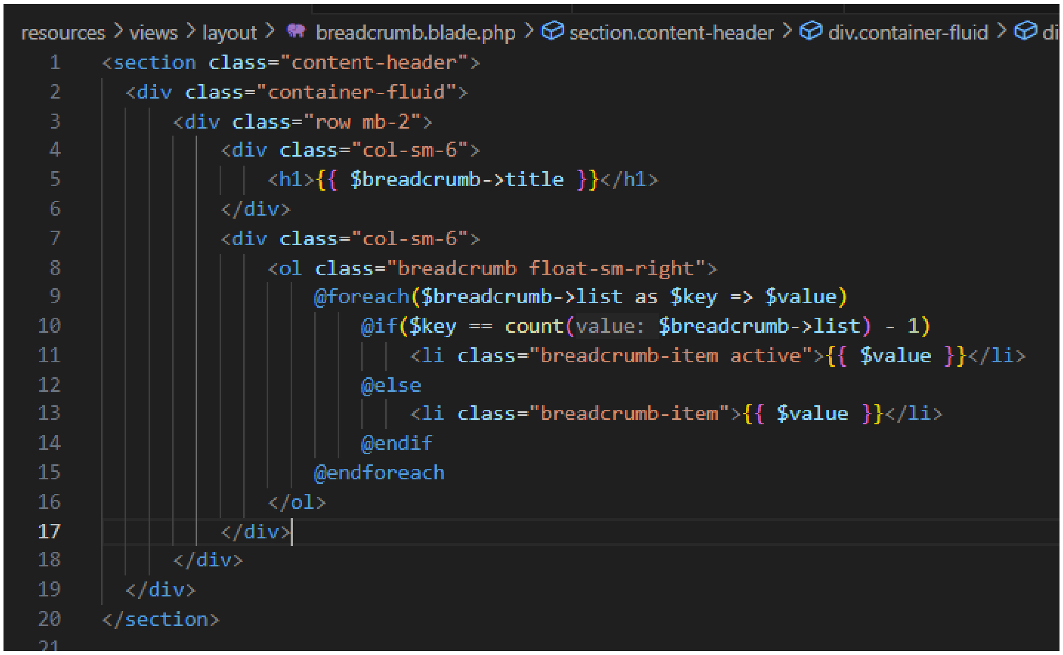
2. We create a file at PWL_POS/resources/views/welcome.blade.php



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

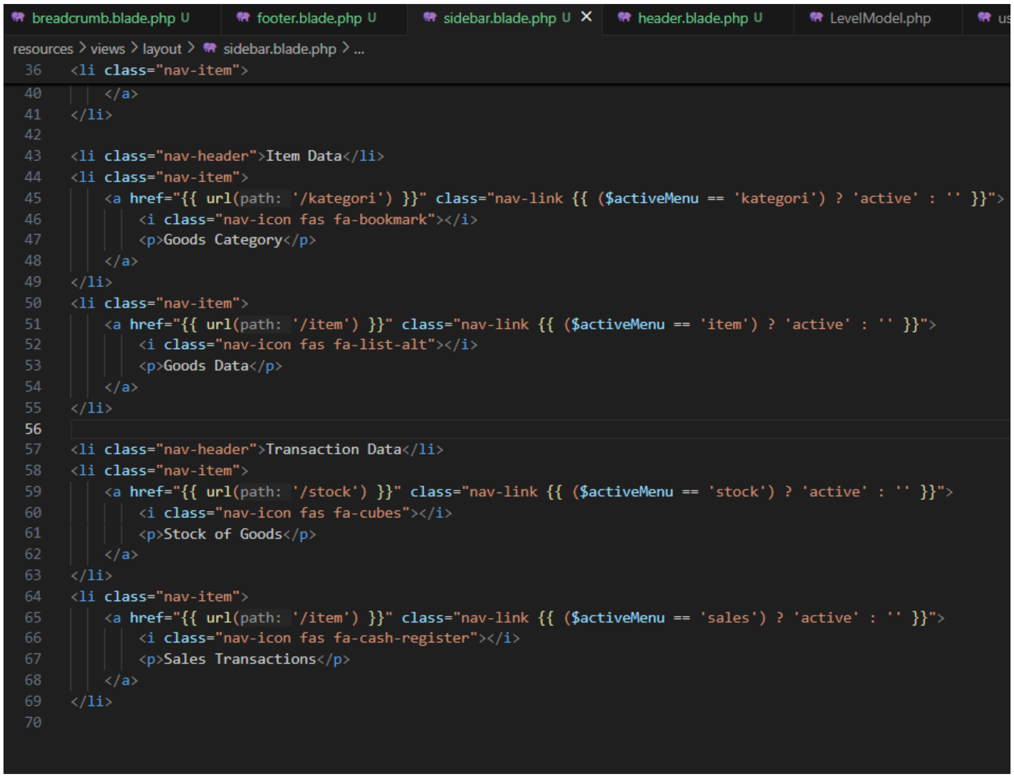
```
@extends(view: 'layouts.template')

@section(section: 'content')

<div class="card">
    <div class="card-header">
        <h3 class="card-title">Halo, apa kabar!!!</h3>
        <div class="card-tools"></div>
    </div>
    <div class="card-body">
        Selamat datang semua, ini adalah halaman utama dari aplikasi ini.
    </div>
</div>

@endsection

```

3. We modify the file PWL_POS/resources/views/layouts/breadcrumb.blade.php


resources > views > layout > breadcrumb.blade.php > section.content-header > div.container-fluid > di

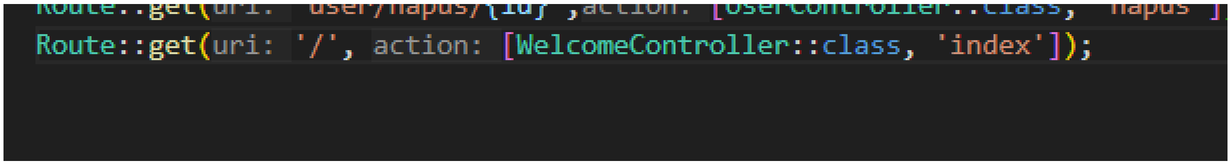
```
<section class="content-header">
    <div class="container-fluid">
        <div class="row mb-2">
            <div class="col-sm-6">
                <h1>{{ $breadcrumb->title }}</h1>
            </div>
            <div class="col-sm-6">
                <ol class="breadcrumb float-sm-right">
                    @foreach($breadcrumb->list as $key => $value)
                        @if($key == count(value: $breadcrumb->list) - 1)
                            <li class="breadcrumb-item active">{{ $value }}</li>
                        @else
                            <li class="breadcrumb-item">{{ $value }}</li>
                        @endif
                    @endforeach
                </ol>
            </div>
        </div>
    </div>
</section>
```

4. We modify the file PWL_POS/resources/views/layouts/sidebar.blade.php



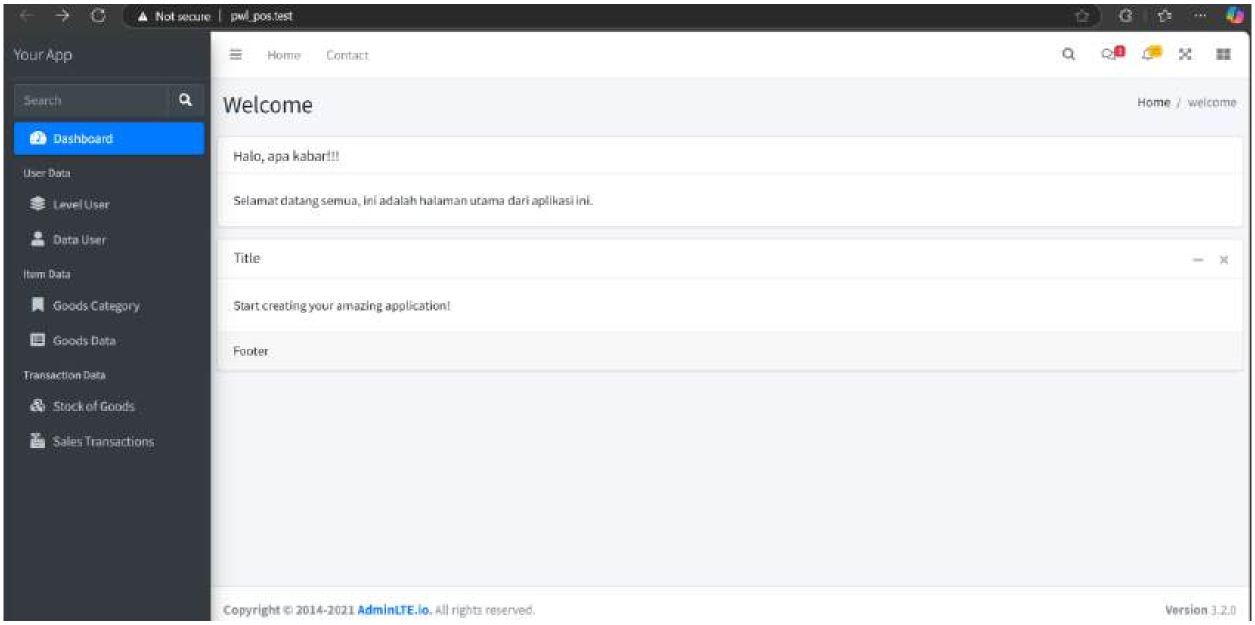
```
<li class="nav-item">
        </a>
</li>

<li class="nav-header">Item Data</li>
<li class="nav-item">
    <a href="{{ url(path: '/kategori') }}" class="nav-link {{ ($activeMenu == 'kategori') ? 'active' : '' }}">
        <i class="nav-icon fas fa-bookmark"></i>
        <p>Goods Category</p>
    </a>
</li>
<li class="nav-item">
    <a href="{{ url(path: '/item') }}" class="nav-link {{ ($activeMenu == 'item') ? 'active' : '' }}">
        <i class="nav-icon fas fa-list-alt"></i>
        <p>Goods Data</p>
    </a>
</li>

<li class="nav-header">Transaction Data</li>
<li class="nav-item">
    <a href="{{ url(path: '/stock') }}" class="nav-link {{ ($activeMenu == 'stock') ? 'active' : '' }}">
        <i class="nav-icon fas fa-cubes"></i>
        <p>Stock of Goods</p>
    </a>
</li>
<li class="nav-item">
    <a href="{{ url(path: '/item') }}" class="nav-link {{ ($activeMenu == 'sales') ? 'active' : '' }}">
        <i class="nav-icon fas fa-cash-register"></i>
        <p>Sales Transactions</p>
    </a>
</li>
```

5. We add the following code to the router web.php



```
Route::get(uri: 'user/hapus/{id}', action: [UserController::class, 'hapus']);
Route::get(uri: '/', action: [WelcomeController::class, 'index']);
```

6. Now let's try to run it in the browser by typing the url



Welcome

Halo, apa kabar!!!

Selamat datang semua, ini adalah halaman utama dari aplikasi ini.

Title

Start creating your amazing application!

Footer

Copyright © 2014-2021 AdminLTE.io. All rights reserved.

Version 3.2.0

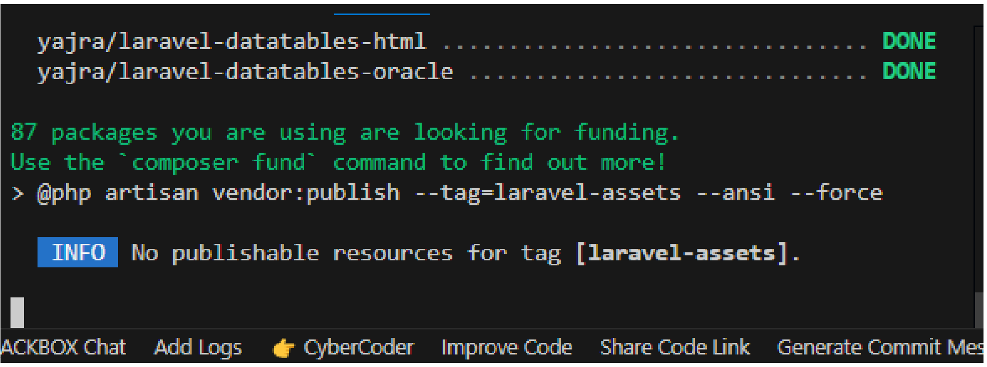
### E. jQuery Datatables Implementation in Laravel

- Practicum 3 – Implementation of jQuery Datatable in AdminLTE:

1. We use the Yajra-datatable library by typing the command in CMD

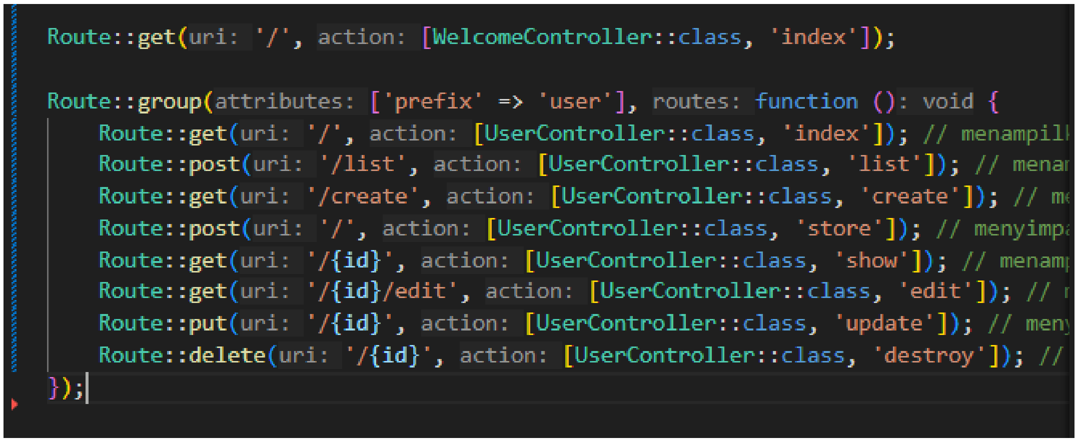
composer require yajra/laravel-datatables:^10.0

composer require yajra/laravel-datatables-oracle



```
   yajra/laravel-datatables-html ................................ DONE
   yajra/laravel-datatables-oracle .............................. DONE

87 packages you are using are looking for funding.
Use the `composer fund` command to find out more!
> @php artisan vendor:publish --tag=laravel-assets --ansi --force

   INFO  No publishable resources for tag [laravel-assets].
```

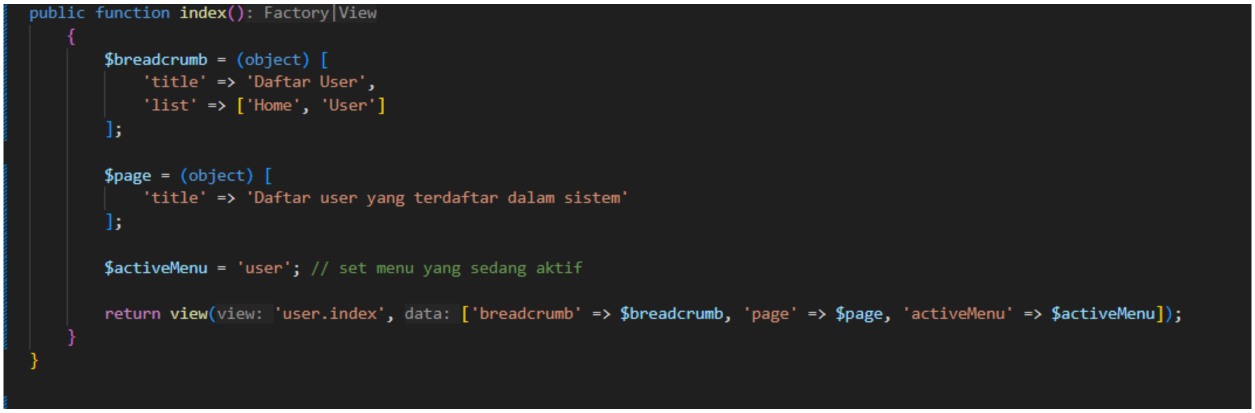
2. We modify the web.php route  for the CRUD user process



```
Route::get(uri: '/', action: [WelcomeController::class, 'index']);

Route::group(attributes: ['prefix' => 'user'], routes: function (): void {
    Route::get(uri: '/', action: [UserController::class, 'index']); // menampilk
    Route::post(uri: '/list', action: [UserController::class, 'list']); // menan
    Route::get(uri: '/create', action: [UserController::class, 'create']); // me
    Route::post(uri: '/', action: [UserController::class, 'store']); // menyimpa
    Route::get(uri: '/{id}', action: [UserController::class, 'show']); // menamp
    Route::get(uri: '/{id}/edit', action: [UserController::class, 'edit']); // 
    Route::put(uri: '/{id}', action: [UserController::class, 'update']); // meny
    Route::delete(uri: '/{id}', action: [UserController::class, 'destroy']); //
});
```

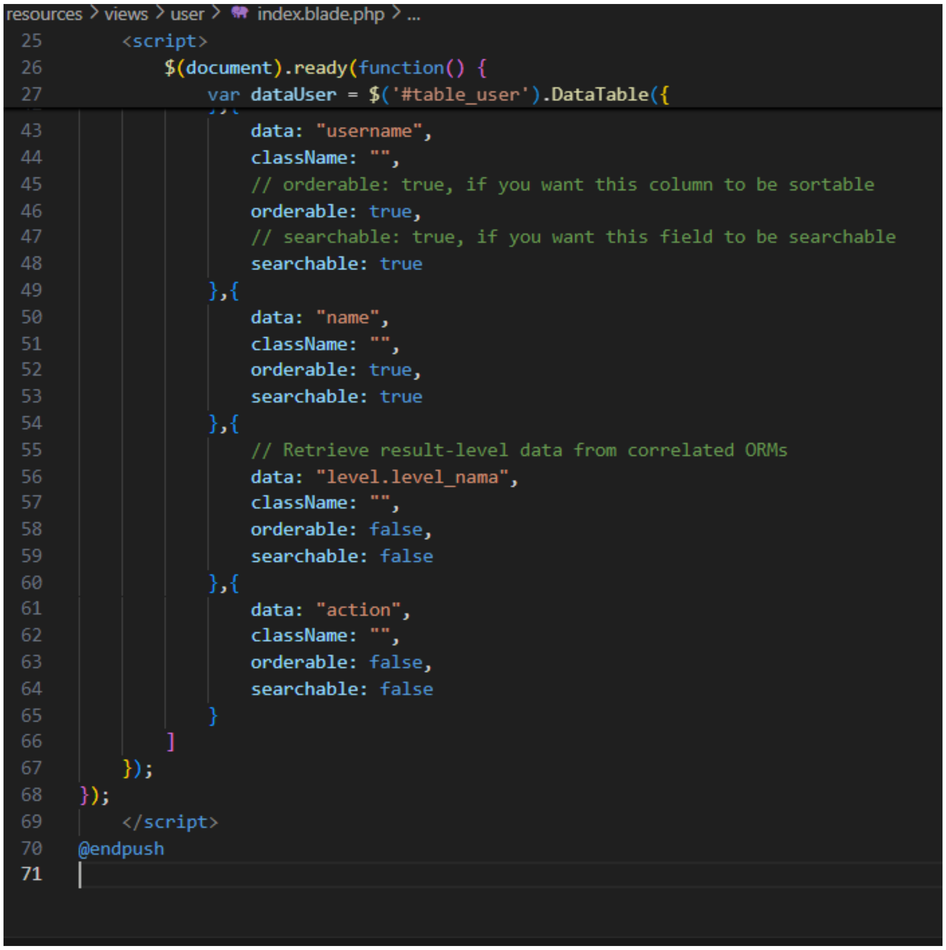
3. We make or modify it completely for UserController.php. We create an index() function  to display the user's home page

-



```php
public function index(): Factory|View
    {
        $breadcrumb = (object) [
            'title' => 'Daftar User',
            'list' => ['Home', 'User']
        ];

        $page = (object) [
            'title' => 'Daftar user yang terdaftar dalam sistem'
        ];

        $activeMenu = 'user'; // set menu yang sedang aktif

        return view(view: 'user.index', data: ['breadcrumb' => $breadcrumb, 'page' => $page, 'activeMenu' => $activeMenu]);
    }
}
```

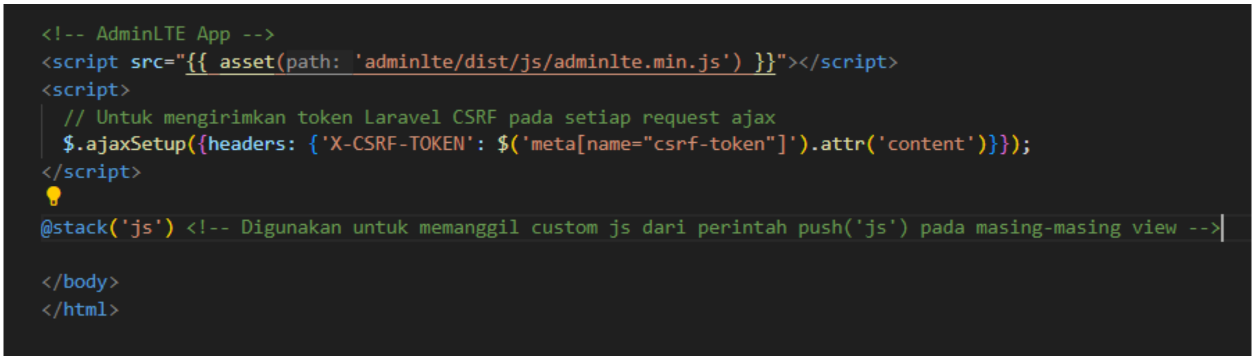
4. Then we create a view on PWL/resources/views/user/index.blade.php



resources > views > user > index.blade.php > ...

```
    <script>
        $(document).ready(function() {
            var dataUser = $('#table_user').DataTable({
                data: "username",
                className: "",
                // orderable: true, if you want this column to be sortable
                orderable: true,
                // searchable: true, if you want this field to be searchable
                searchable: true
            },{
                data: "name",
                className: "",
                orderable: true,
                searchable: true
            },{
                // Retrieve result-level data from correlated ORMs
                data: "level.level_nama",
                className: "",
                orderable: false,
                searchable: false
            },{
                data: "action",
                className: "",
                orderable: false,
                searchable: false
            }
        ]
    });
});
    </script>
@endpush
```

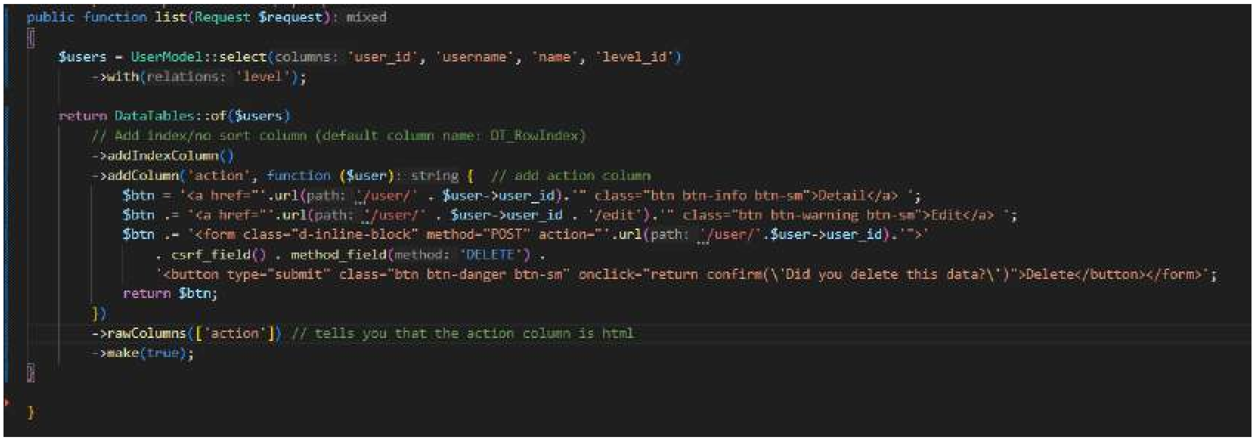
5. Then we modify the template.blade.php file to add the jquery datatables library from the AdminLTE template that we downloaded and is in the public folder



```
<!-- AdminLTE App -->
<script src="{{ asset(path: 'adminlte/dist/js/adminlte.min.js') }}"></script>
<script>
  // Untuk mengirimkan token Laravel CSRF pada setiap request ajax
  $.ajaxSetup({headers: {'X-CSRF-TOKEN': $('meta[name="csrf-token"]').attr('content')}});
</script>

@stack('js') <!-- Digunakan untuk memanggil custom js dari perintah push('js') pada masing-masing view -->

</body>
</html>
```

6. To be able to capture data requests for the datatable, we create a list() function on UserController.php as follows

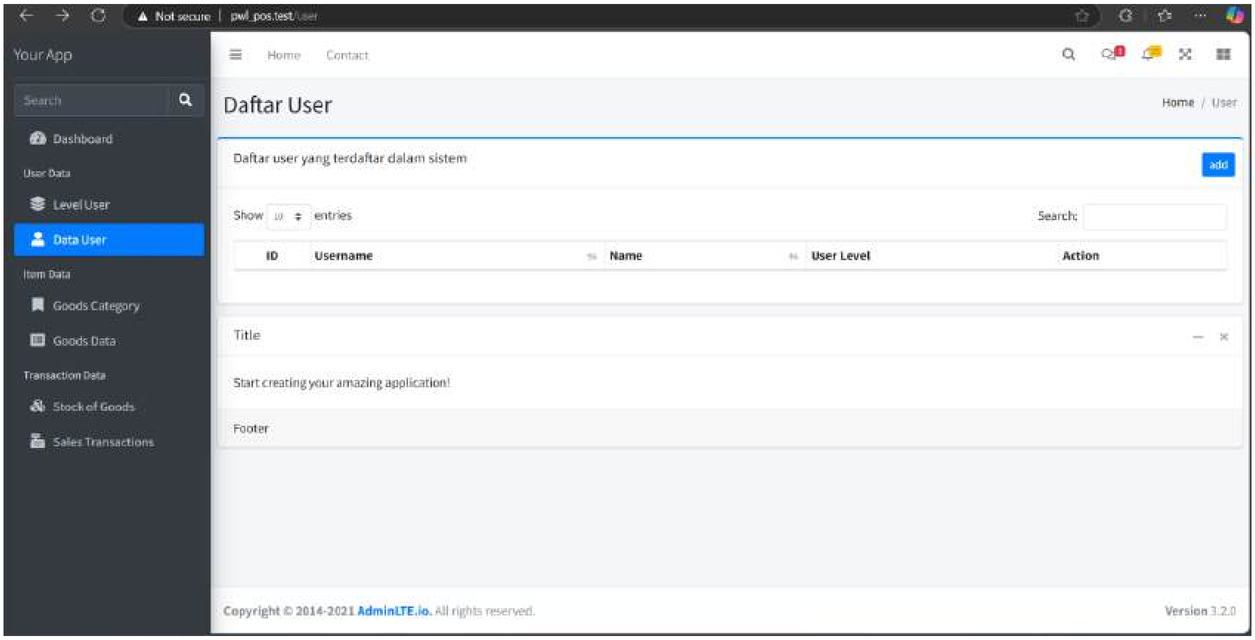
-



```
public function list(Request $request): mixed
{
    $users = UserModel::select(columns: 'user_id', 'username', 'name', 'level_id')
        ->with(relations: 'level');

    return DataTables::of($users)
        // Add index/no sort column (default column name: DT_RowIndex)
        ->addIndexColumn()
        ->addColumn('action', function ($user): string {  // add action column
            $btn = '<a href="'.url(path: '/user/' . $user->user_id).'" class="btn btn-info btn-sm">Detail</a> ';
            $btn .= '<a href="'.url(path: '/user/' . $user->user_id . '/edit').'" class="btn btn-warning btn-sm">Edit</a> ';
            $btn .= '<form class="d-inline-block" method="POST" action="'.url(path: '/user/'.$user->user_id).'">'
                . csrf_field() . method_field(method: 'DELETE') .
                '<button type="submit" class="btn btn-danger btn-sm" onclick="return confirm(\'Did you delete this data?\')">Delete</button></form>';
            return $btn;
        })
        ->rawColumns(['action']) // tells you that the action column is html
        ->make(true);
}

}
```

7. Now try running the browser, and click on the User Data menu ..!! Pay attention and observe what happens.

-



Daftar User

Daftar user yang terdaftar dalam sistem

| ID | Username | Name | User Level | Action |
|---|---|---|---|---|

Title

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Footer

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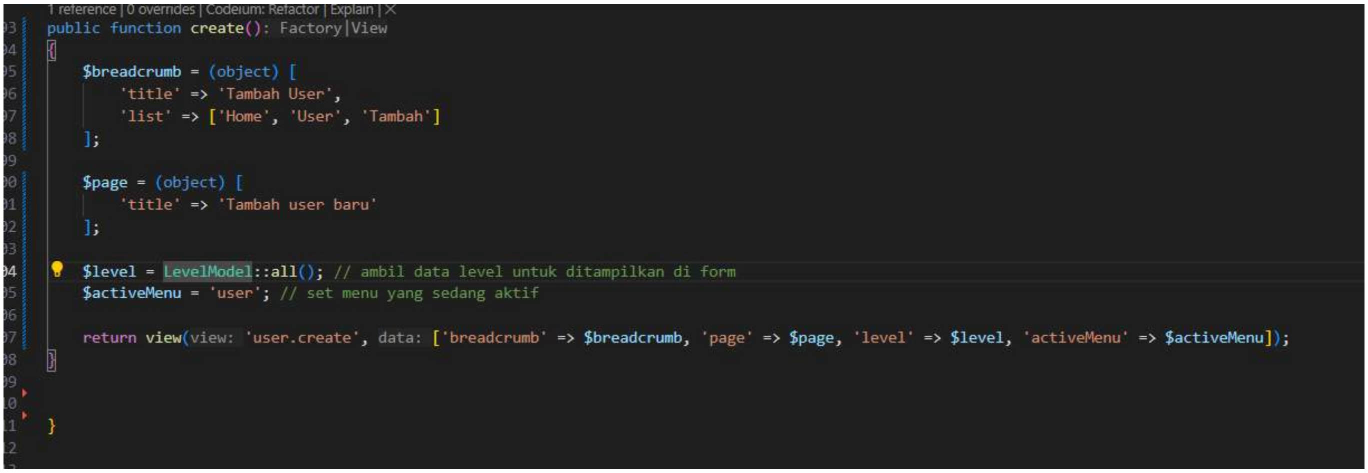
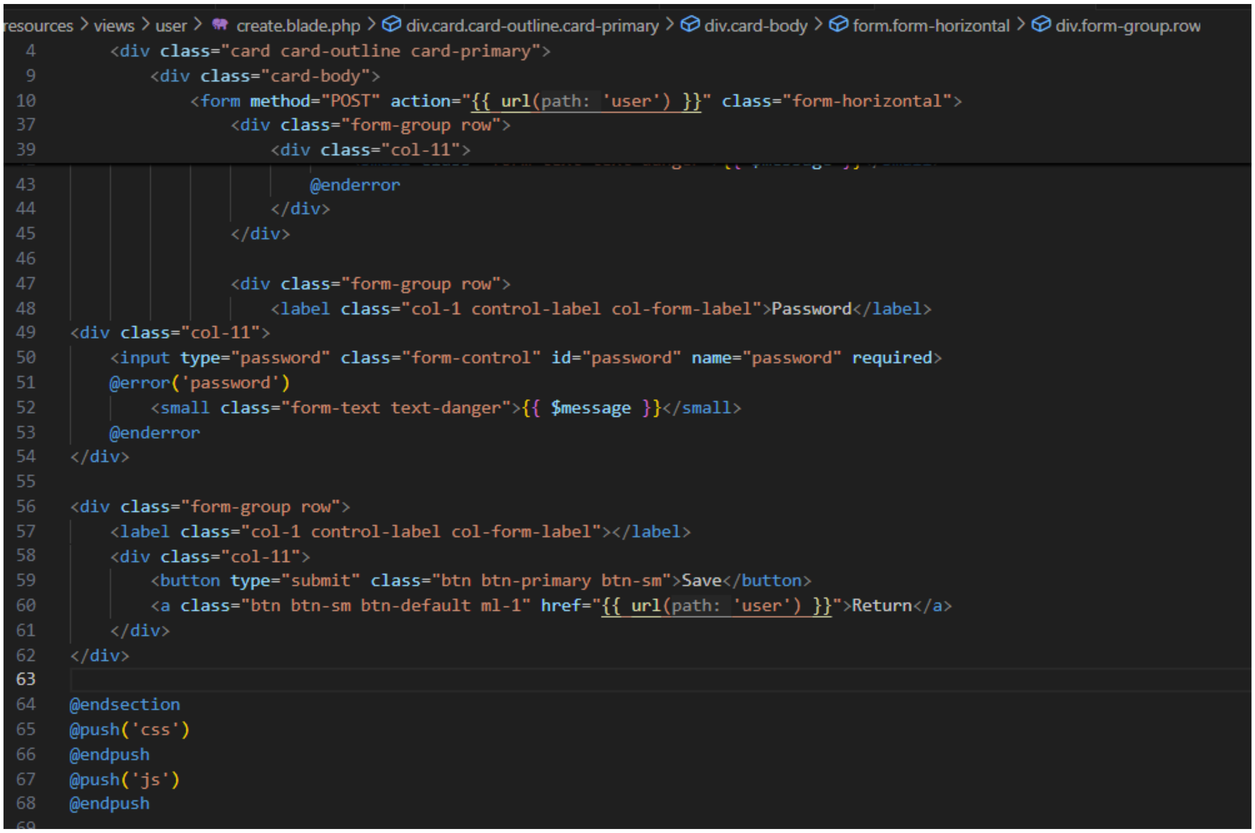
Version 3.2.0

8. Next, we modify the UserController.php for the form to add user data



```
public function create(): Factory|View
{
    $breadcrumb = (object) [
        'title' => 'Tambah User',
        'list' => ['Home', 'User', 'Tambah']
    ];

    $page = (object) [
        'title' => 'Tambah user baru'
    ];

    $level = LevelModel::all(); // ambil data level untuk ditampilkan di form
    $activeMenu = 'user'; // set menu yang sedang aktif

    return view(view: 'user.create', data: ['breadcrumb' => $breadcrumb, 'page' => $page, 'level' => $level, 'activeMenu' => $activeMenu]);
}


}
```

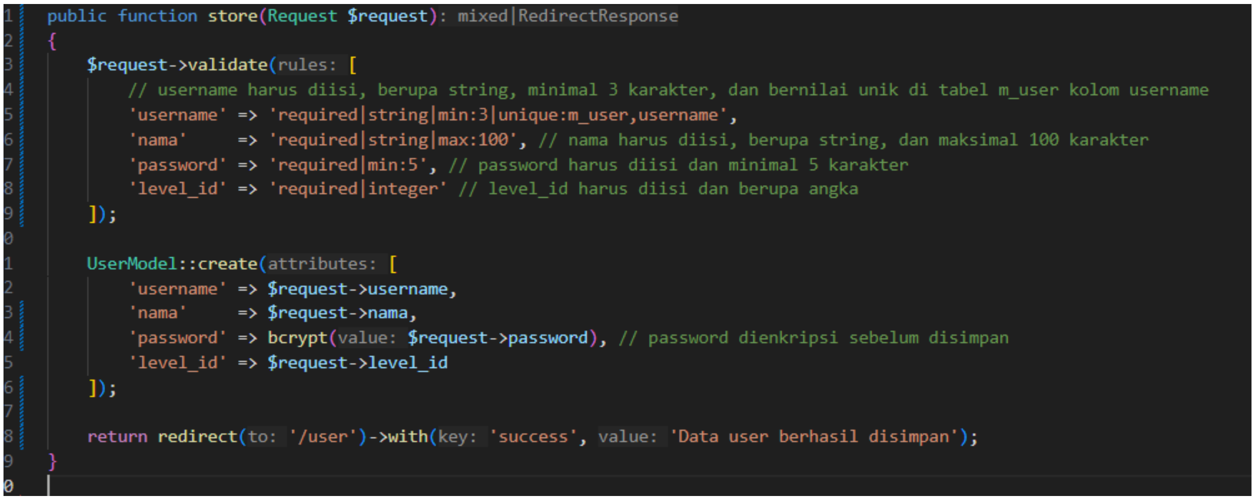
9. Now we create a form to add data, we create a PWL/resources/views/user/create.blade.php file


resources > views > user > create.blade.php > div.card.card-outline.card-primary > div.card-body > form.form-horizontal > div.form-group.row

```
    <div class="card card-outline card-primary">
        <div class="card-body">
            <form method="POST" action="{{ url(path: 'user') }}" class="form-horizontal">
                <div class="form-group row">
                    <div class="col-11">
                        @enderror
                    </div>
                </div>

                <div class="form-group row">
                    <label class="col-1 control-label col-form-label">Password</label>
<div class="col-11">
    <input type="password" class="form-control" id="password" name="password" required>
    @error('password')
        <small class="form-text text-danger">{{ $message }}</small>
    @enderror
</div>

<div class="form-group row">
    <label class="col-1 control-label col-form-label"></label>
    <div class="col-11">
        <button type="submit" class="btn btn-primary btn-sm">Save</button>
        <a class="btn btn-sm btn-default ml-1" href="{{ url(path: 'user') }}">Return</a>
    </div>
</div>

@endsection
@push('css')
@endpush
@push('js')
@endpush
```

10. Then to be able to handle the data that will be saved to the database, we create the store() function in UserController.php

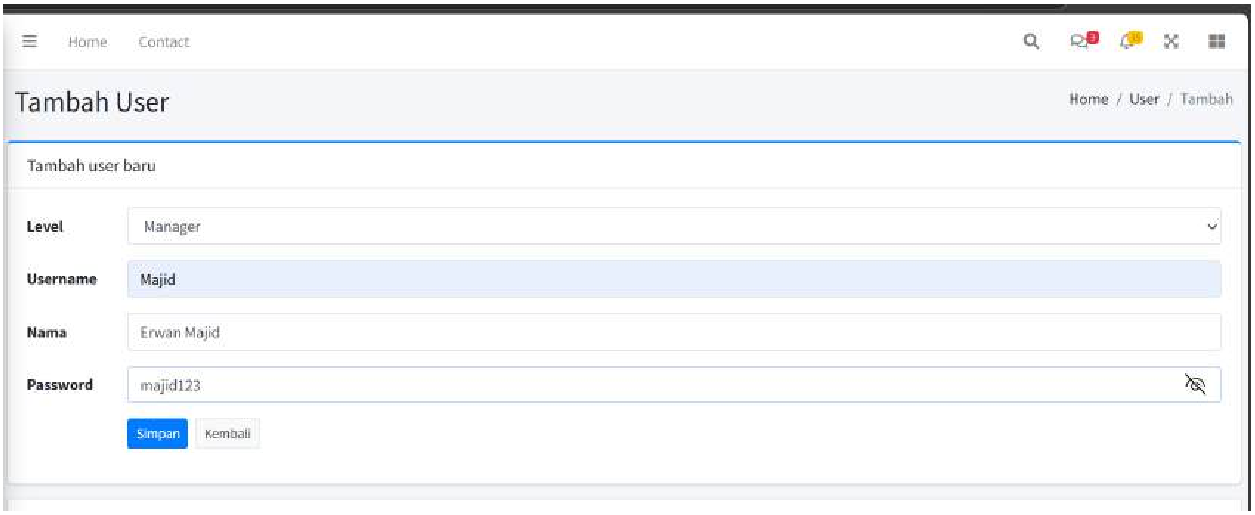
-



```
public function store(Request $request): mixed|RedirectResponse
{
    $request->validate(rules: [
        // username harus diisi, berupa string, minimal 3 karakter, dan bernilai unik di tabel m_user kolom username
        'username' => 'required|string|min:3|unique:m_user,username',
        'nama'     => 'required|string|max:100', // nama harus diisi, berupa string, dan maksimal 100 karakter
        'password' => 'required|min:5', // password harus diisi dan minimal 5 karakter
        'level_id' => 'required|integer' // level_id harus diisi dan berupa angka
    ]);

    UserModel::create(attributes: [
        'username' => $request->username,
        'nama'     => $request->nama,
        'password' => bcrypt(value: $request->password), // password dienkripsi sebelum disimpan
        'level_id' => $request->level_id
    ]);

    return redirect(to: '/user')->with(key: 'success', value: 'Data user berhasil disimpan');
}
```

11. Now try to open the add user data form by clicking the add button. Observe and learn..!!

-

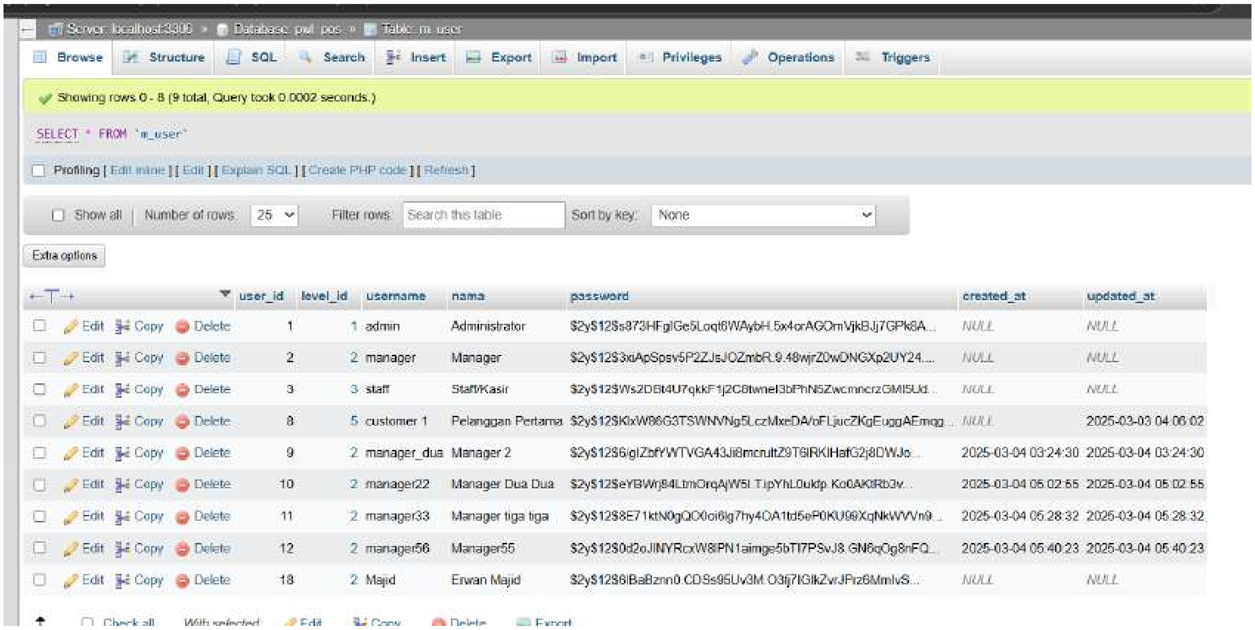


Tambah User

Tambah user baru

| | |
|---|---|
| Level | Manager |
| Username | Majid |
| Nama | Erwan Majid |
| Password | majid123 |

Right now we can fill new user and clik simpan


Server: localhost:3306 » Database: pwl_pos » Table: m_user
Browse
Structure
SQL
Search
Insert
Export
Import
Privileges
Operations
Triggers

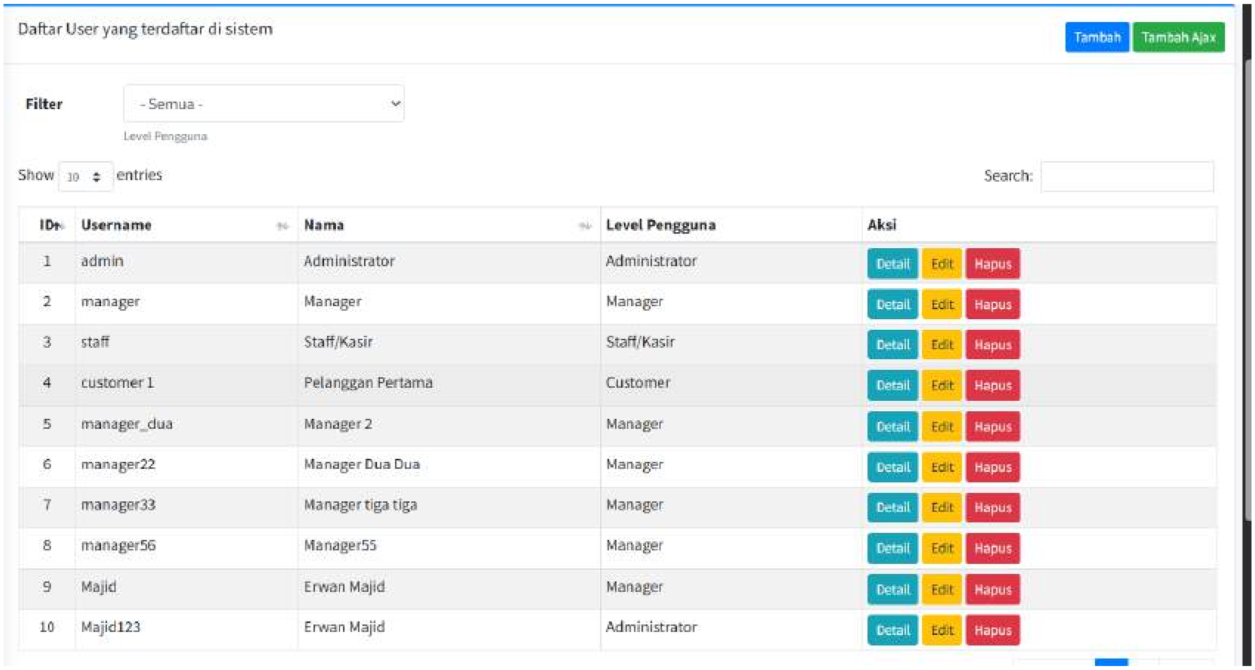
✓ Showing rows 0 - 8 (9 total, Query took 0.0002 seconds.)

```
SELECT * FROM `m_user`
```

□ Profiling [ Edit inline ] [ Edit ] [ Explain SQL ] [ Create PHP code ] [ Refresh ]
□ Show all | Number of rows: 25 Filter rows: Search this table Sort by key: None
Extra options

| | user_id | level_id | username | nama | password | created_at | updated_at |
|---|---|---|---|---|---|---|---|
| □ Edit Copy Delete | 1 | 1 | admin | Administrator | $2y$12$s873HFglGe5Loqt6WAybH.5x4orAGOmVjkBJj7GPk8A... | NULL | NULL |
| □ Edit Copy Delete | 2 | 2 | manager | Manager | $2y$12$3xiApSpsv5P2ZJsJOZmbR.9.48wjrZ0wDNGXp2UY24.... | NULL | NULL |
| □ Edit Copy Delete | 3 | 3 | staff | Staff/Kasir | $2y$12$Ws2DBt4U7qkkF1j2C8twnel3bPhN5ZwcmncrzGMI5Ud... | NULL | NULL |
| □ Edit Copy Delete | 8 | 5 | customer 1 | Pelanggan Pertama | $2y$12$KlxW86G3TSWNVNg5LczMxeDA/oFLjucZKgEuggAEmqg... | NULL | 2025-03-03 04:06:02 |
| □ Edit Copy Delete | 9 | 2 | manager_dua | Manager 2 | $2y$12$6/glZbfYWTVGA43Ji8mcrultZ9T6IRKIHafG2j8DWJo... | 2025-03-04 03:24:30 | 2025-03-04 03:24:30 |
| □ Edit Copy Delete | 10 | 2 | manager22 | Manager Dua Dua | $2y$12$eYBWrj84LtmOrqAjW5I.T.ipYhL0ukfp.Ko0AKtRb3v... | 2025-03-04 05:02:55 | 2025-03-04 05:02:55 |
| □ Edit Copy Delete | 11 | 2 | manager33 | Manager tiga tiga | $2y$12$8E71ktN0gQO0ci6lg7hy4OA1td5eP0KU99XqNkWVVn9... | 2025-03-04 05:28:32 | 2025-03-04 05:28:32 |
| □ Edit Copy Delete | 12 | 2 | manager56 | Manager55 | $2y$12$0d2oJINYRcxW8IPN1aimge5bTI7PSvJ8.GN6qOg8nFQ... | 2025-03-04 05:40:23 | 2025-03-04 05:40:23 |
| □ Edit Copy Delete | 18 | 2 | Majid | Erwan Majid | $2y$12$6IBaBzrn0.CDSs95Uv3M.O3fj7IGlkZvrJPrz6MmlvS... | NULL | NULL |

-as we can see the data we fill is input to database



Daftar User yang terdaftar di sistem

Filter - Semua -

Level Pengguna

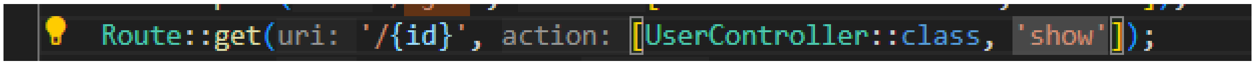
Show 10 entries

Search:

| ID | Username | Nama | Level Pengguna | Aksi |
|---|---|---|---|---|
| 1 | admin | Administrator | Administrator | Detail Edit Hapus |
| 2 | manager | Manager | Manager | Detail Edit Hapus |
| 3 | staff | Staff/Kasir | Staff/Kasir | Detail Edit Hapus |
| 4 | customer 1 | Pelanggan Pertama | Customer | Detail Edit Hapus |
| 5 | manager_dua | Manager 2 | Manager | Detail Edit Hapus |
| 6 | manager22 | Manager Dua Dua | Manager | Detail Edit Hapus |
| 7 | manager33 | Manager tiga tiga | Manager | Detail Edit Hapus |
| 8 | manager56 | Manager55 | Manager | Detail Edit Hapus |
| 9 | Majid | Erwan Majid | Manager | Detail Edit Hapus |
| 10 | Majid123 | Erwan Majid | Administrator | Detail Edit Hapus |

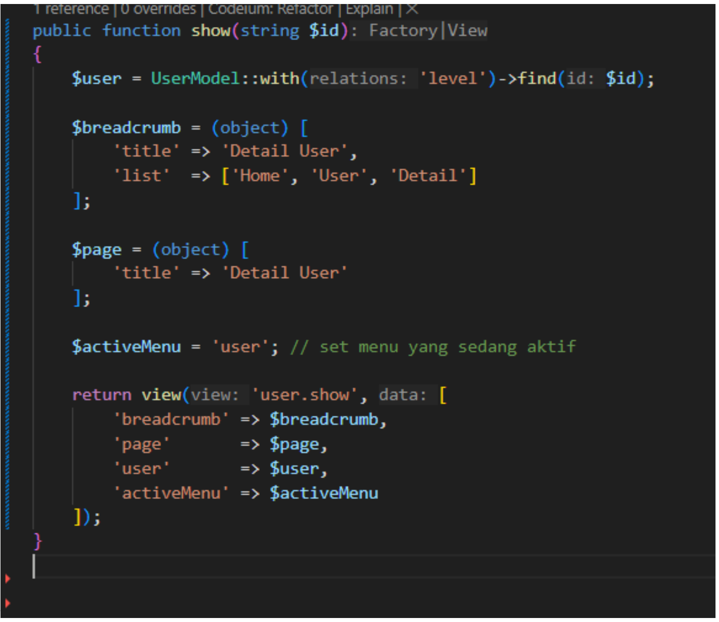
12. Next, we enter the section to display user data details (click the button  ) on the user page. The route that is in charge of capturing request details is

-



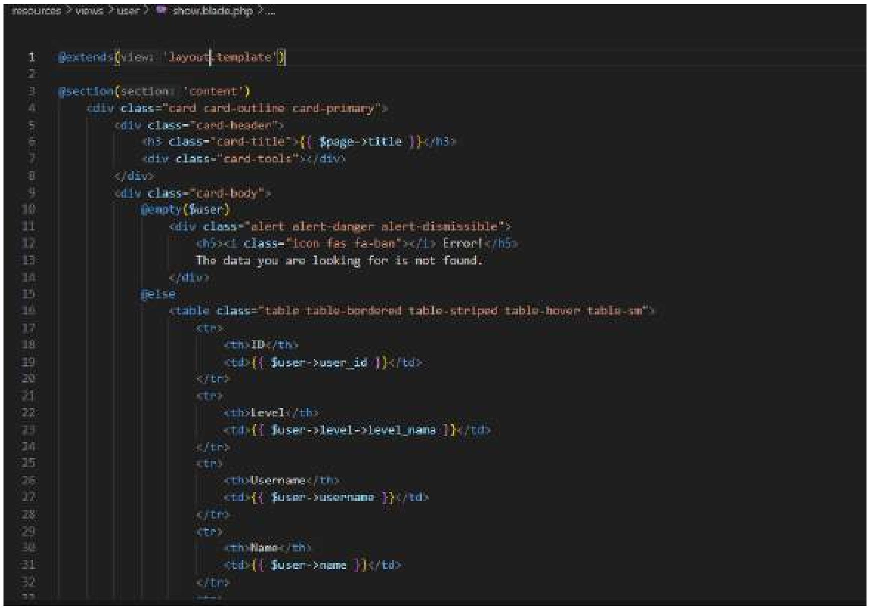
```
Route::get(uri: '/{id}', action: [UserController::class, 'show']);
```

13. So we create/modify  the show() function on UserController.php as follows



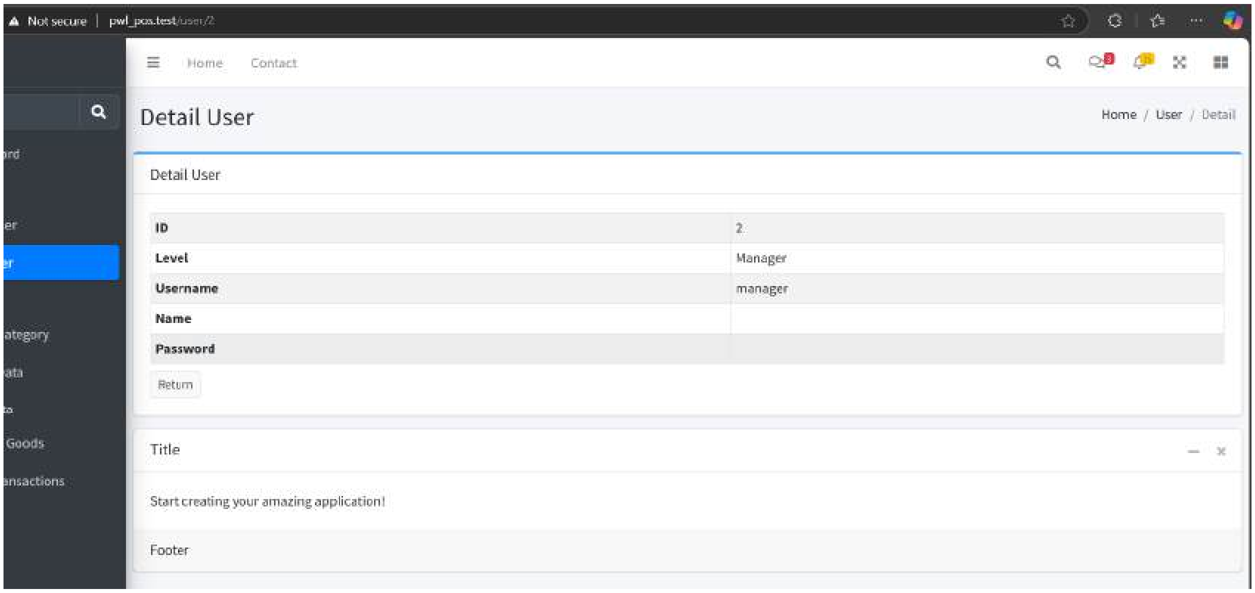
```php
public function show(string $id): Factory|View
{
    $user = UserModel::with(relations: 'level')->find(id: $id);

    $breadcrumb = (object) [
        'title' => 'Detail User',
        'list'  => ['Home', 'User', 'Detail']
    ];

    $page = (object) [
        'title' => 'Detail User'
    ];

    $activeMenu = 'user'; // set menu yang sedang aktif

    return view(view: 'user.show', data: [
        'breadcrumb' => $breadcrumb,
        'page'       => $page,
        'user'       => $user,
        'activeMenu' => $activeMenu
    ]);
}
```

14. Then we create a view at PWL/resources/views/user/show.blade.php



```blade
@extends(view: 'layout.template')

@section(section: 'content')
    <div class="card card-outline card-primary">
        <div class="card-header">
            <h3 class="card-title">{{ $page->title }}</h3>
            <div class="card-tools"></div>
        </div>
        <div class="card-body">
            @empty($user)
                <div class="alert alert-danger alert-dismissible">
                    <h5><i class="icon fas fa-ban"></i> Error!</h5>
                    The data you are looking for is not found.
                </div>
            @else
                <table class="table table-bordered table-striped table-hover table-sm">
                    <tr>
                        <th>ID</th>
                        <td>{{ $user->user_id }}</td>
                    </tr>
                    <tr>
                        <th>Level</th>
                        <td>{{ $user->level->level_name }}</td>
                    </tr>
                    <tr>
                        <th>Username</th>
                        <td>{{ $user->username }}</td>
                    </tr>
                    <tr>
                        <th>Name</th>
                        <td>{{ $user->name }}</td>
                    </tr>
```

15. Now you try to see the details of the user data in the browser, and try to type the wrong id for example http://localhost/PWL/public/user/100 observe what happens, and report it!!



Detail User

Detail User

|  |  |
|---|---|
| **ID** | 2 |
| **Level** | Manager |
| **Username** | manager |
| **Name** |  |
| **Password** |  |

Return

Title

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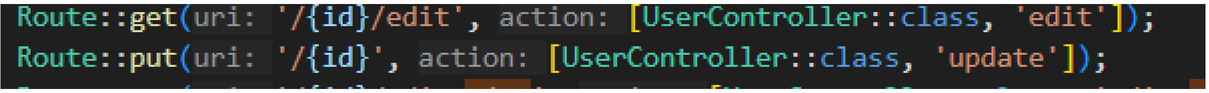
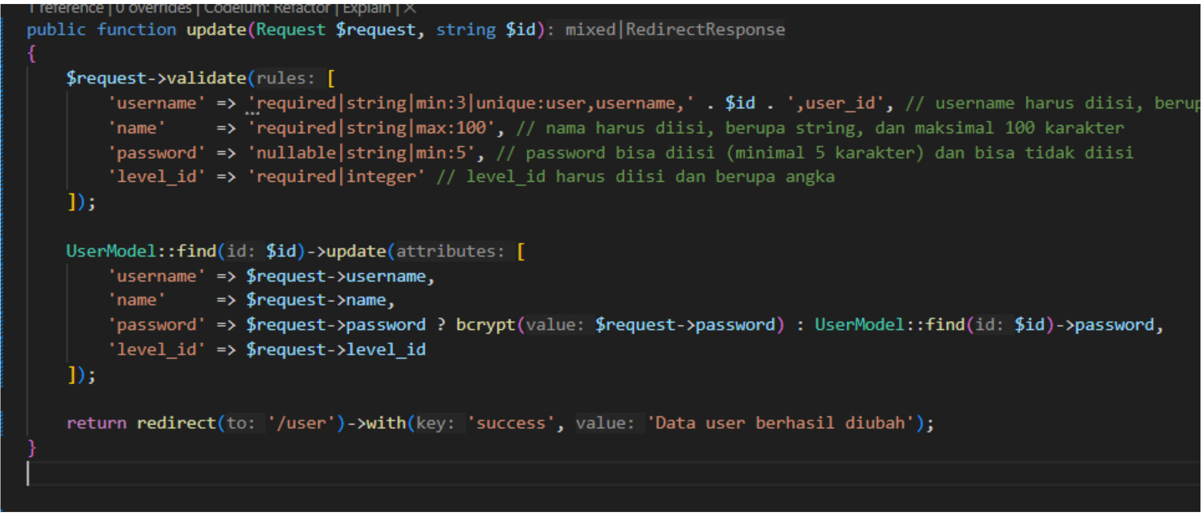
-it show data that we want to know about it

16. Next, we enter the section to modify user data. The route that is in charge of capturing edit requests is



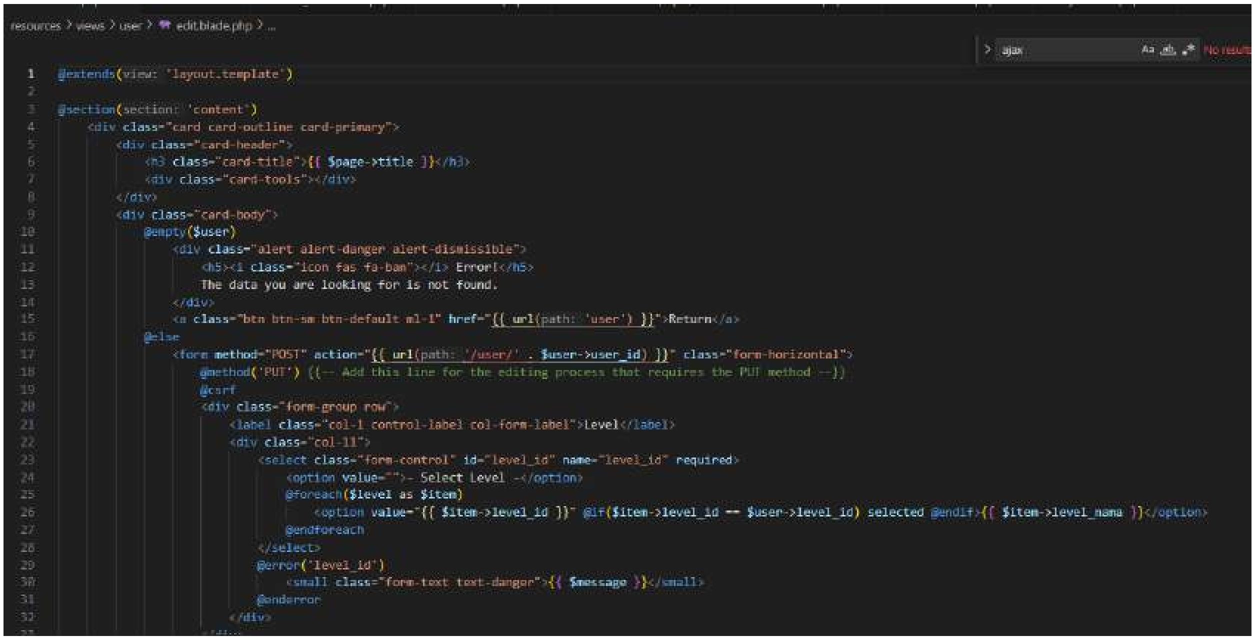
```
Route::get(uri: '/{id}/edit', action: [UserController::class, 'edit']);
Route::put(uri: '/{id}', action: [UserController::class, 'update']);
```

17. So we create an edit() and update() function  on UserController.php



```
public function update(Request $request, string $id): mixed|RedirectResponse
{
    $request->validate(rules: [
        'username' => 'required|string|min:3|unique:user,username,' . $id . ',user_id', // username harus diisi, berup
        'name'     => 'required|string|max:100', // nama harus diisi, berupa string, dan maksimal 100 karakter
        'password' => 'nullable|string|min:5', // password bisa diisi (minimal 5 karakter) dan bisa tidak diisi
        'level_id' => 'required|integer' // level_id harus diisi dan berupa angka
    ]);

    UserModel::find(id: $id)->update(attributes: [
        'username' => $request->username,
        'name'     => $request->name,
        'password' => $request->password ? bcrypt(value: $request->password) : UserModel::find(id: $id)->password,
        'level_id' => $request->level_id
    ]);

    return redirect(to: '/user')->with(key: 'success', value: 'Data user berhasil diubah');
}
```

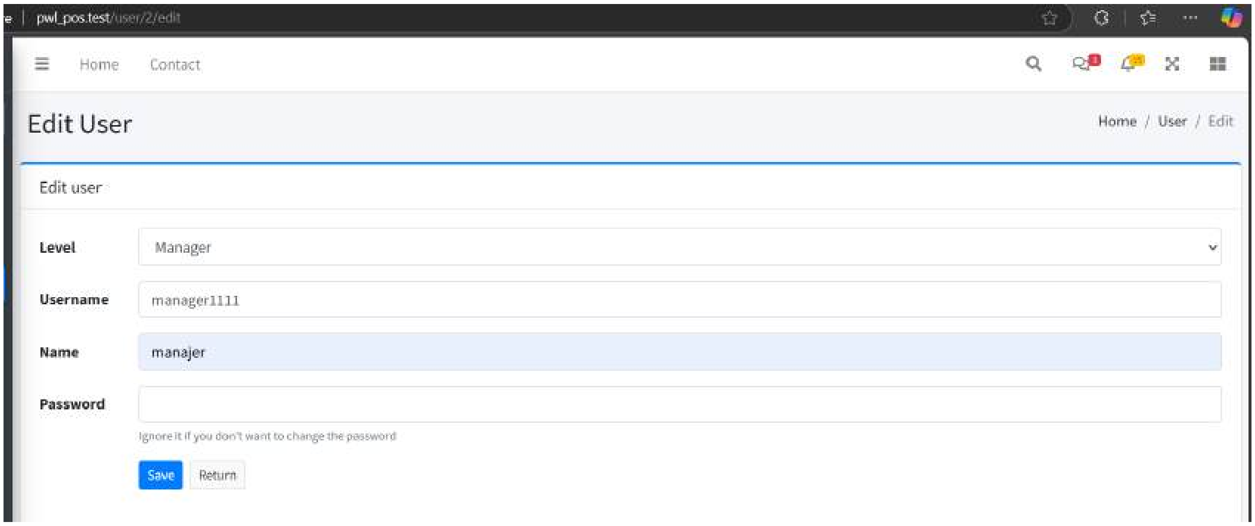
18. Then we create a view at PWL/resources/views/user/show.blade.php



```
@extends(view: 'layout.template')

@section(section: 'content')
    <div class="card card-outline card-primary">
        <div class="card-header">
            <h3 class="card-title">{{ $page->title }}</h3>
            <div class="card-tools"></div>
        </div>
        <div class="card-body">
            @empty($user)
                <div class="alert alert-danger alert-dismissible">
                    <h5><i class="icon fas fa-ban"></i> Error!</h5>
                    The data you are looking for is not found.
                </div>
                <a class="btn btn-sm btn-default ml-1" href="{{ url(path: 'user') }}">Return</a>
            @else
                <form method="POST" action="{{ url(path: '/user/' . $user->user_id) }}" class="form-horizontal">
                    @method('PUT') {{-- Add this line for the editing process that requires the PUT method --}}
                    @csrf
                    <div class="form-group row">
                        <label class="col-1 control-label col-form-label">Level</label>
                        <div class="col-11">
                            <select class="form-control" id="level_id" name="level_id" required>
                                <option value="">- Select Level -</option>
                                @foreach($level as $item)
                                    <option value="{{ $item->level_id }}" @if($item->level_id == $user->level_id) selected @endif>{{ $item->level_nama }}</option>
                                @endforeach
                            </select>
                            @error('level_id')
                                <small class="form-text text-danger">{{ $message }}</small>
                            @enderror
                        </div>
```

19. Now you try to edit user data in the browser, observe, understand, and report!

-



Edit User

Edit user

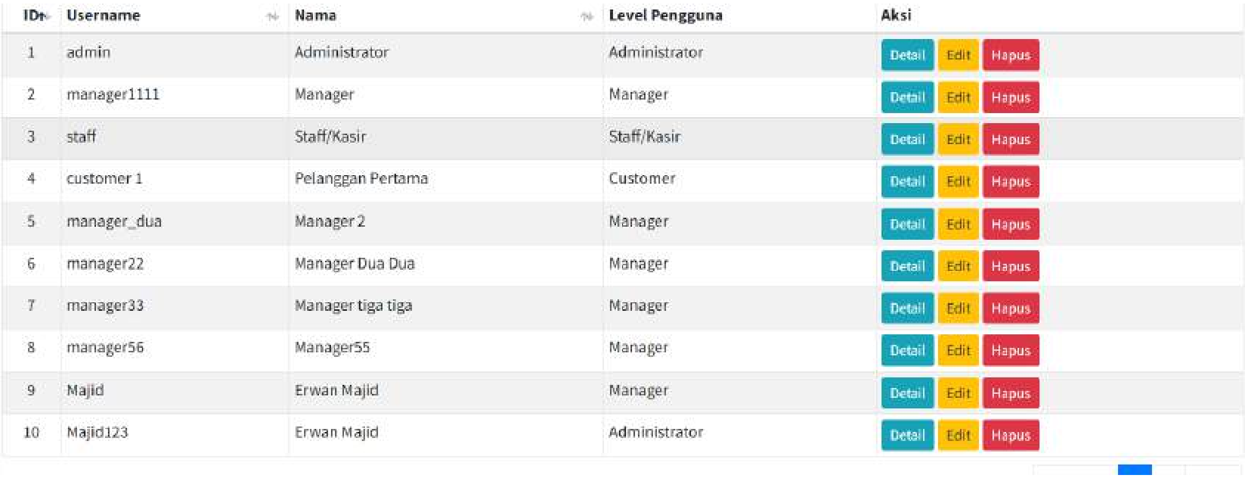
Level: Manager

Username: manager1111

Name: manajer

Password:

Ignore it if you don't want to change the password

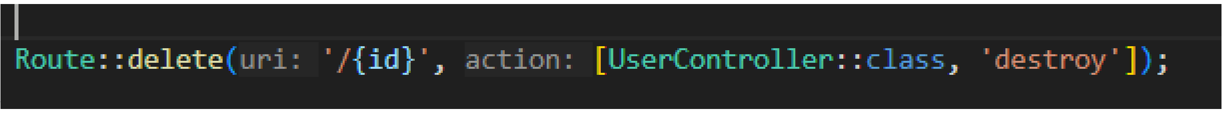


| ID | Username | Nama | Level Pengguna | Aksi |
|---|---|---|---|---|
| 1 | admin | Administrator | Administrator | Detail Edit Hapus |
| 2 | manager1111 | Manager | Manager | Detail Edit Hapus |
| 3 | staff | Staff/Kasir | Staff/Kasir | Detail Edit Hapus |
| 4 | customer 1 | Pelanggan Pertama | Customer | Detail Edit Hapus |
| 5 | manager_dua | Manager 2 | Manager | Detail Edit Hapus |
| 6 | manager22 | Manager Dua Dua | Manager | Detail Edit Hapus |
| 7 | manager33 | Manager tiga tiga | Manager | Detail Edit Hapus |
| 8 | manager56 | Manager55 | Manager | Detail Edit Hapus |
| 9 | Majid | Erwan Majid | Manager | Detail Edit Hapus |
| 10 | Majid123 | Erwan Majid | Administrator | Detail Edit Hapus |

-Succesfully edit the data

20. Next we will create a handle for the delete button. The web.php router  that functions to catch delete requests with the DETELE method is

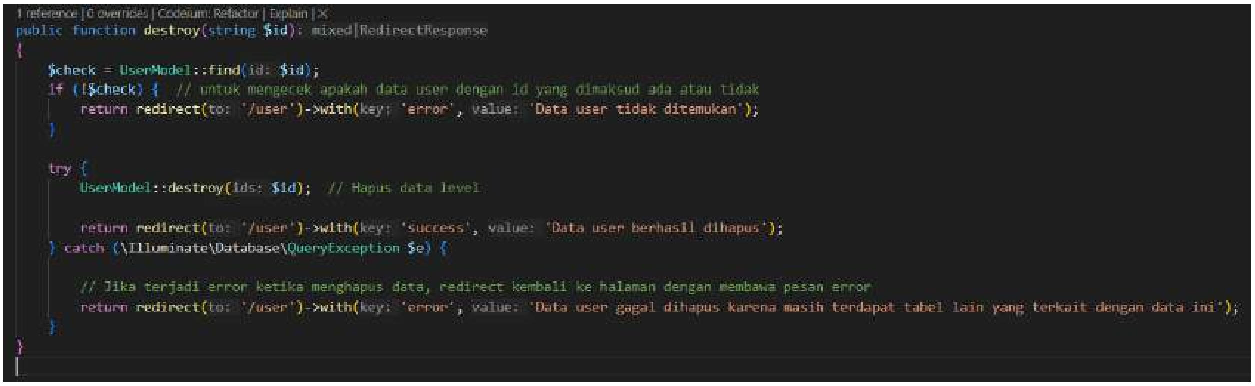
-



```
Route::delete(uri: '/{id}', action: [UserController::class, 'destroy']);
```

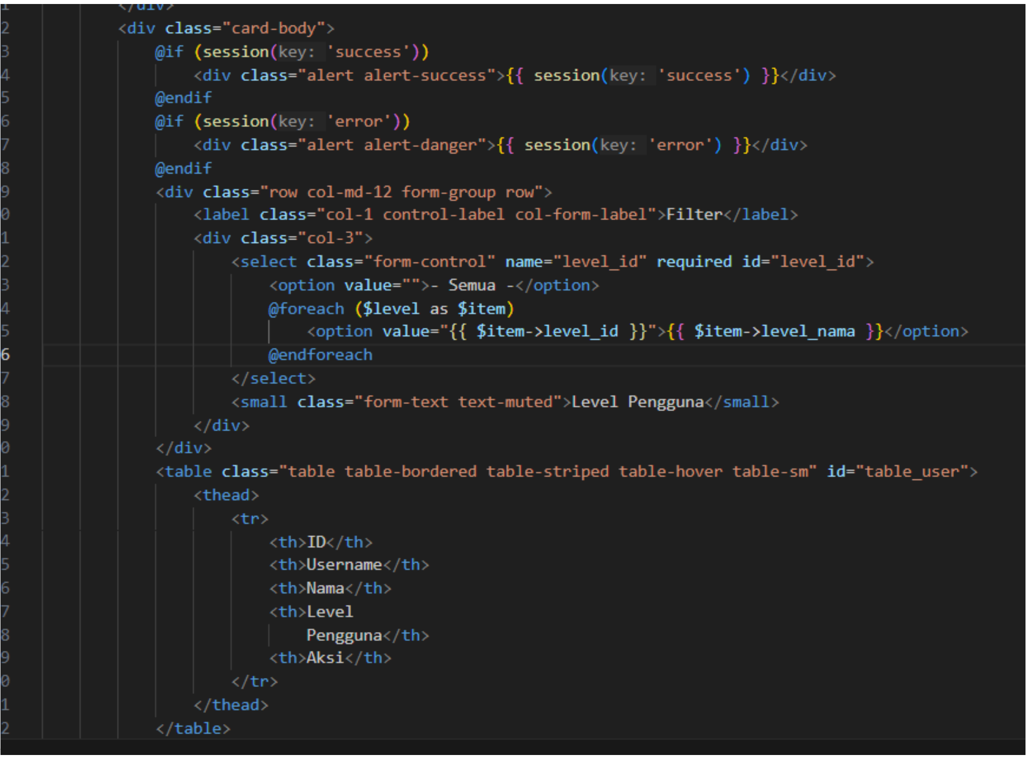
21. So we create  a destroy() function on UserController.php

-



```
public function destroy(string $id): mixed|RedirectResponse
{
    $check = UserModel::find(id: $id);
    if (!$check) {  // untuk mengecek apakah data user dengan id yang dimaksud ada atau tidak
        return redirect(to: '/user')->with(key: 'error', value: 'Data user tidak ditemukan');
    }

    try {
        UserModel::destroy(ids: $id);  // Hapus data level

        return redirect(to: '/user')->with(key: 'success', value: 'Data user berhasil dihapus');
    } catch (\Illuminate\Database\QueryException $e) {

        // Jika terjadi error ketika menghapus data, redirect kembali ke halaman dengan membawa pesan error
        return redirect(to: '/user')->with(key: 'error', value: 'Data user gagal dihapus karena masih terdapat tabel lain yang terkait dengan data ini');
    }
}
```

22. Next, we modify the PWL/resources/views/user/index.blade.php file  to add a view if there is an error message

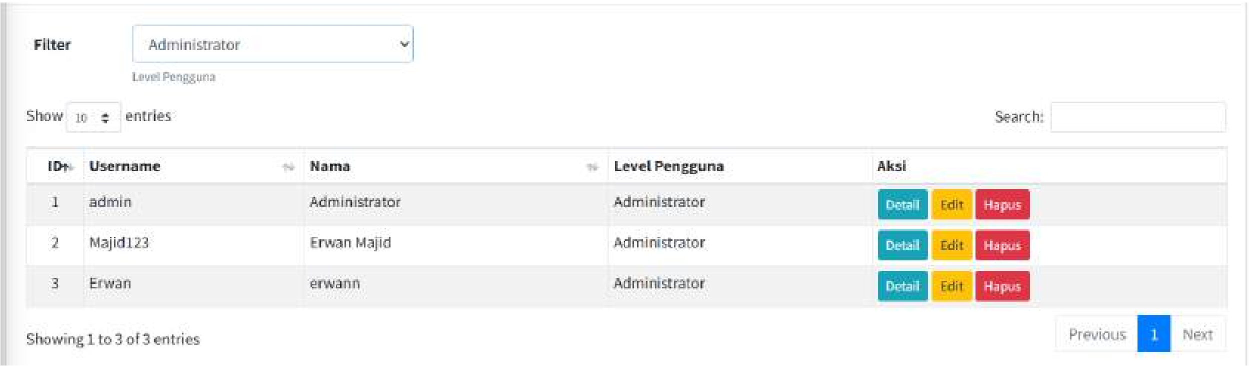


```
        </div>
        <div class="card-body">
            @if (session(key: 'success'))
                <div class="alert alert-success">{{ session(key: 'success') }}</div>
            @endif
            @if (session(key: 'error'))
                <div class="alert alert-danger">{{ session(key: 'error') }}</div>
            @endif
            <div class="row col-md-12 form-group row">
                <label class="col-1 control-label col-form-label">Filter</label>
                <div class="col-3">
                    <select class="form-control" name="level_id" required id="level_id">
                        <option value="">- Semua -</option>
                        @foreach ($level as $item)
                            <option value="{{ $item->level_id }}">{{ $item->level_nama }}</option>
                        @endforeach
                    </select>
                    <small class="form-text text-muted">Level Pengguna</small>
                </div>
            </div>
            <table class="table table-bordered table-striped table-hover table-sm" id="table_user">
                <thead>
                    <tr>
                        <th>ID</th>
                        <th>Username</th>
                        <th>Nama</th>
                        <th>Level
                            Pengguna</th>
                        <th>Aksi</th>
                    </tr>
                </thead>
            </table>
```

-

23. Then run the browser to delete one of the user's data. Observe and report!

-



Filter Administrator

Level Pengguna

Show 10 entries

Search:

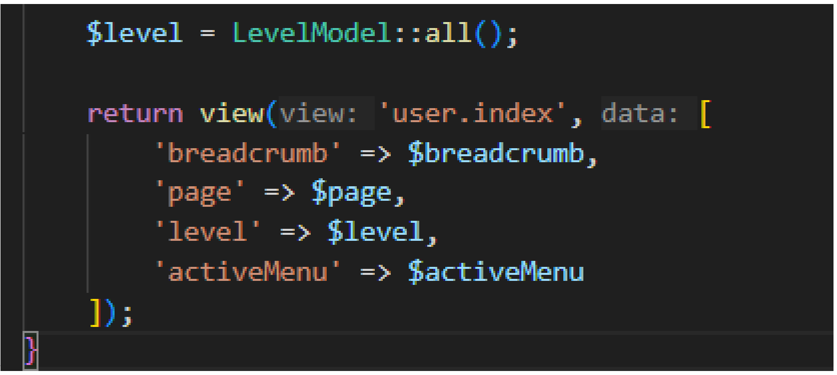
| ID | Username | Nama | Level Pengguna | Aksi |
|---|---|---|---|---|
| 1 | admin | Administrator | Administrator | Detail Edit Hapus |
| 2 | Majid123 | Erwan Majid | Administrator | Detail Edit Hapus |
| 3 | Erwan | erwann | Administrator | Detail Edit Hapus |

Showing 1 to 3 of 3 entries

-It can filter by Level,which this show just administrator

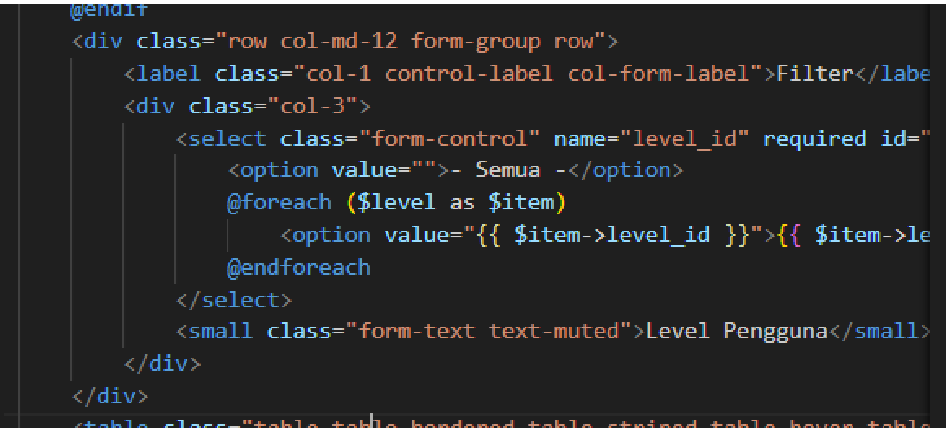
F. Data Searching and Filtering

1. We modify the index() function in the UserController.php to add the data that we want to use as a category for filtering data



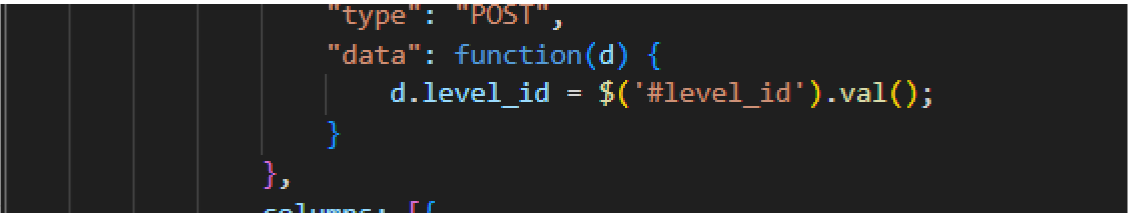
```
    $level = LevelModel::all();

    return view(view: 'user.index', data: [
        'breadcrumb' => $breadcrumb,
        'page' => $page,
        'level' => $level,
        'activeMenu' => $activeMenu
    ]);
}
```

2. Then we modify the view to display filtering data in PWL/resources/views/user/index.blade.php



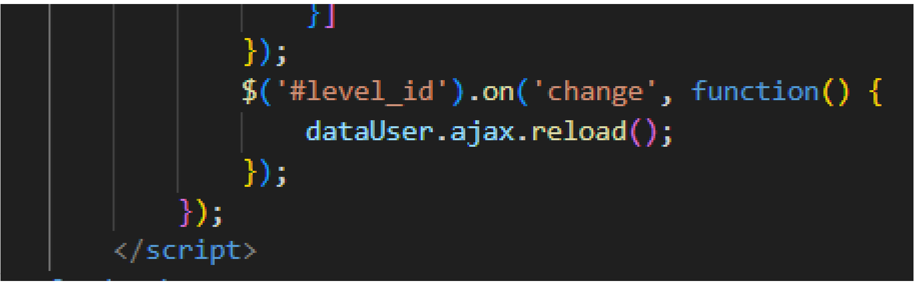
```
    @endif
    <div class="row col-md-12 form-group row">
        <label class="col-1 control-label col-form-label">Filter</labe
        <div class="col-3">
            <select class="form-control" name="level_id" required id="
                <option value="">- Semua -</option>
                @foreach ($level as $item)
                    <option value="{{ $item->level_id }}">{{ $item->le
                @endforeach
            </select>
            <small class="form-text text-muted">Level Pengguna</small>
        </div>
    </div>
    <table class="table table-bordered table-striped table-hover table-
```

3. Next, sticking to the index.blade.php view, we add the following code to the ajax declaration in the datatable. This code is used to transmit data for filtering



```
                "type": "POST",
                "data": function(d) {
                    d.level_id = $('#level_id').val();
                }
            },
            columns: [{
```

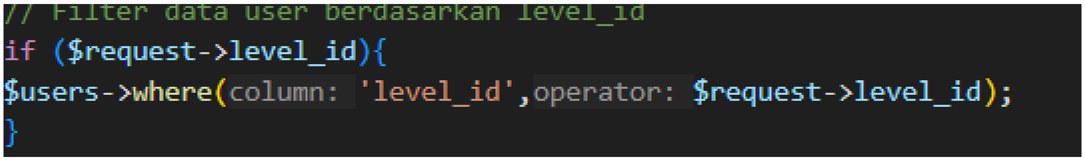
4. Then we edit at the end of the script @push('js') to add a listener if filtering data is selected



```
                }]
            });
            $('#level_id').on('change', function() {
                dataUser.ajax.reload();
            });
        });
    </script>
```

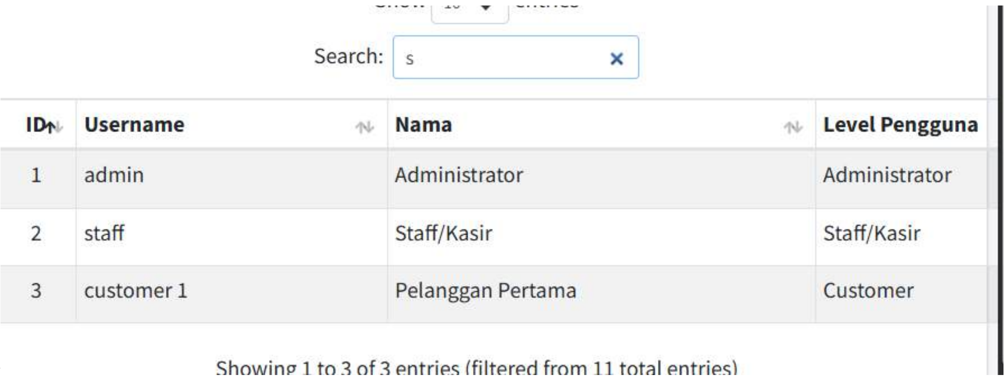
-

5. The final stage is to modify the list() function on the UserController.php used to display the data on the datatable



```
// Filter data user berdasarkan level_id
if ($request->level_id){
$users->where(column: 'level_id',operator: $request->level_id);
}
```

6. The last part is that we try to run it in a browser with user menu access, then it will appear as follows



Show 10 entries

Search: s

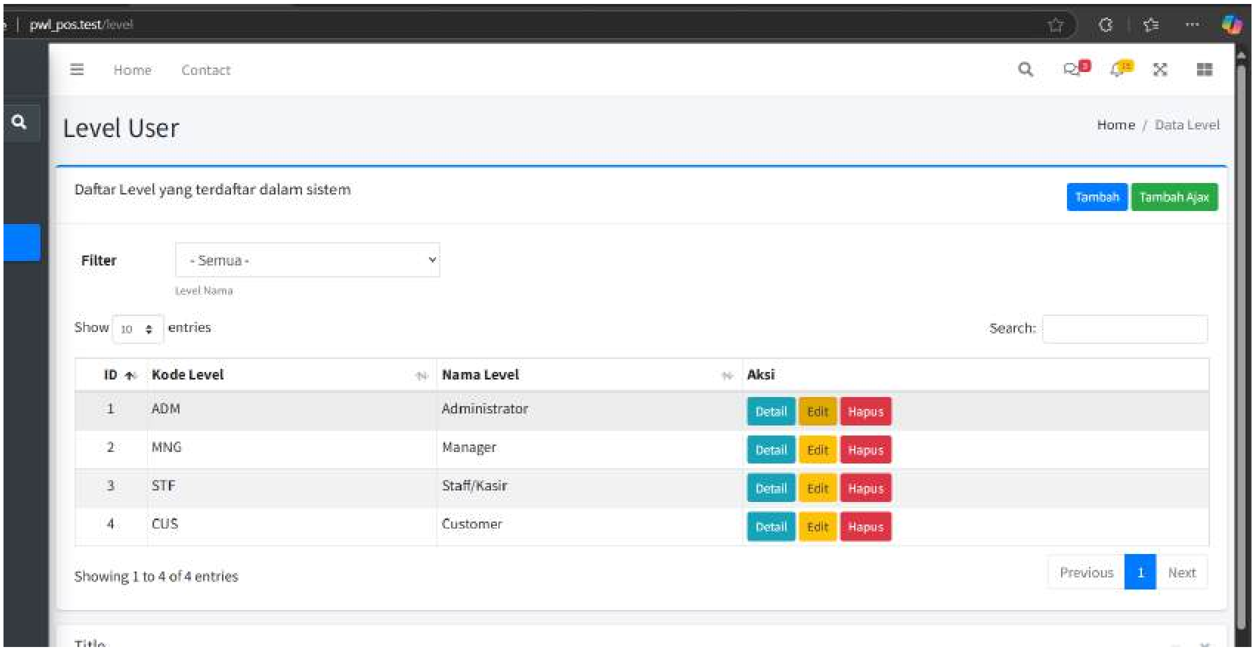
| ID | Username | Nama | Level Pengguna |
|---|---|---|---|
| 1 | admin | Administrator | Administrator |
| 2 | staff | Staff/Kasir | Staff/Kasir |
| 3 | customer 1 | Pelanggan Pertama | Customer |

- Showing 1 to 3 of 3 entries (filtered from 11 total entries)

Can search by our keyword,ex just type s,so the result is staff

G. Assignment

1. Table m_level



## Level User

Daftar Level yang terdaftar dalam sistem

Filter: - Semua -

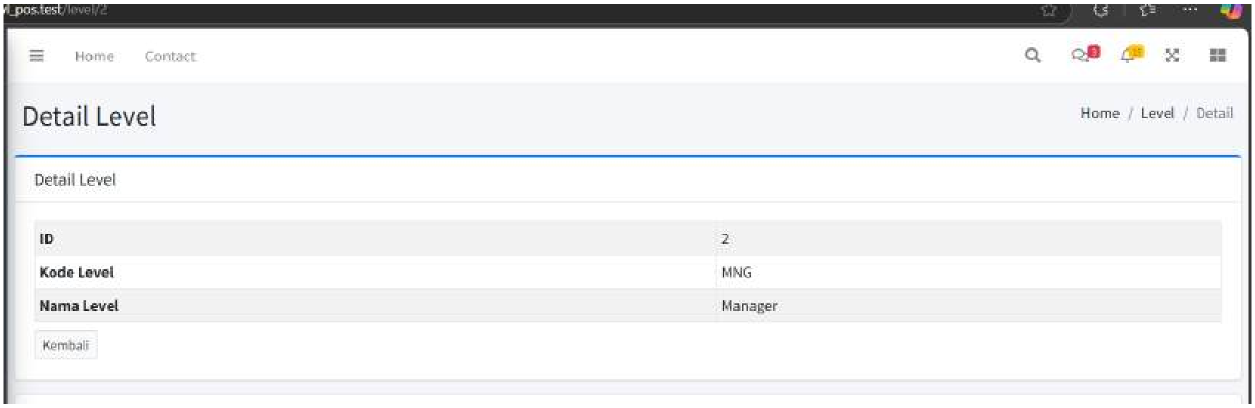
Level Nama

Show 10 entries

Search:

| ID | Kode Level | Nama Level | Aksi |
|---|---|---|---|
| 1 | ADM | Administrator | Detail Edit Hapus |
| 2 | MNG | Manager | Detail Edit Hapus |
| 3 | STF | Staff/Kasir | Detail Edit Hapus |
| 4 | CUS | Customer | Detail Edit Hapus |

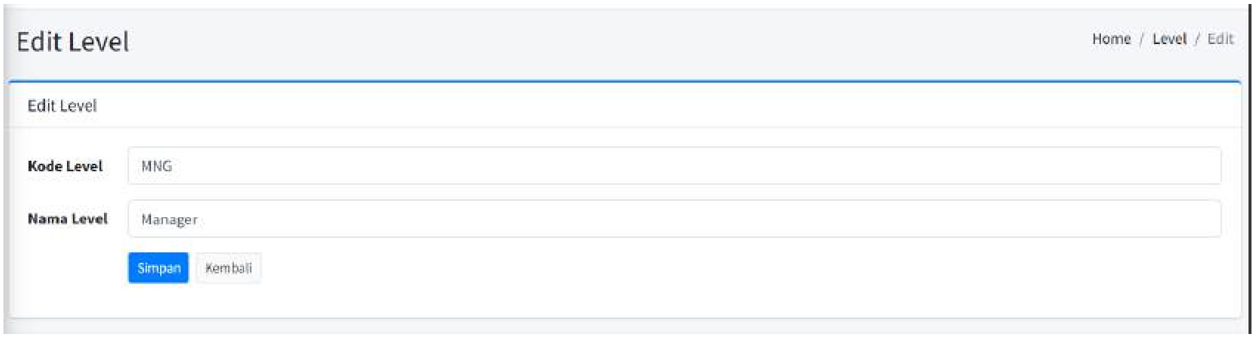
Showing 1 to 4 of 4 entries



## Detail Level

Detail Level

| | |
|---|---|
| ID | 2 |
| Kode Level | MNG |
| Nama Level | Manager |

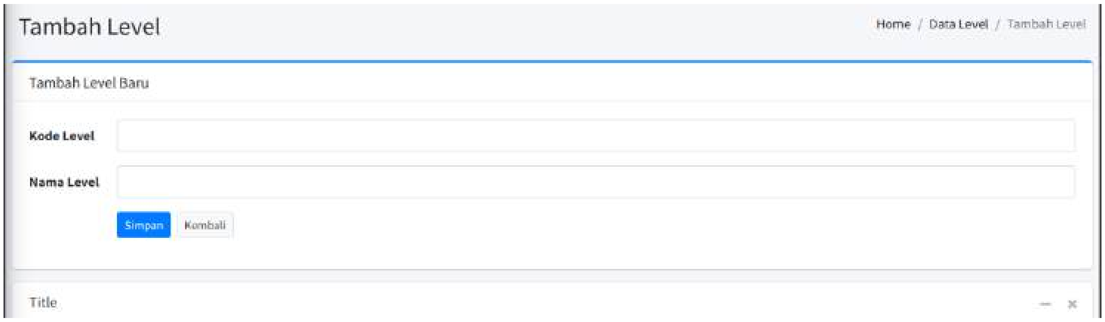


## Edit Level

Edit Level

Kode Level: MNG

Nama Level: Manager



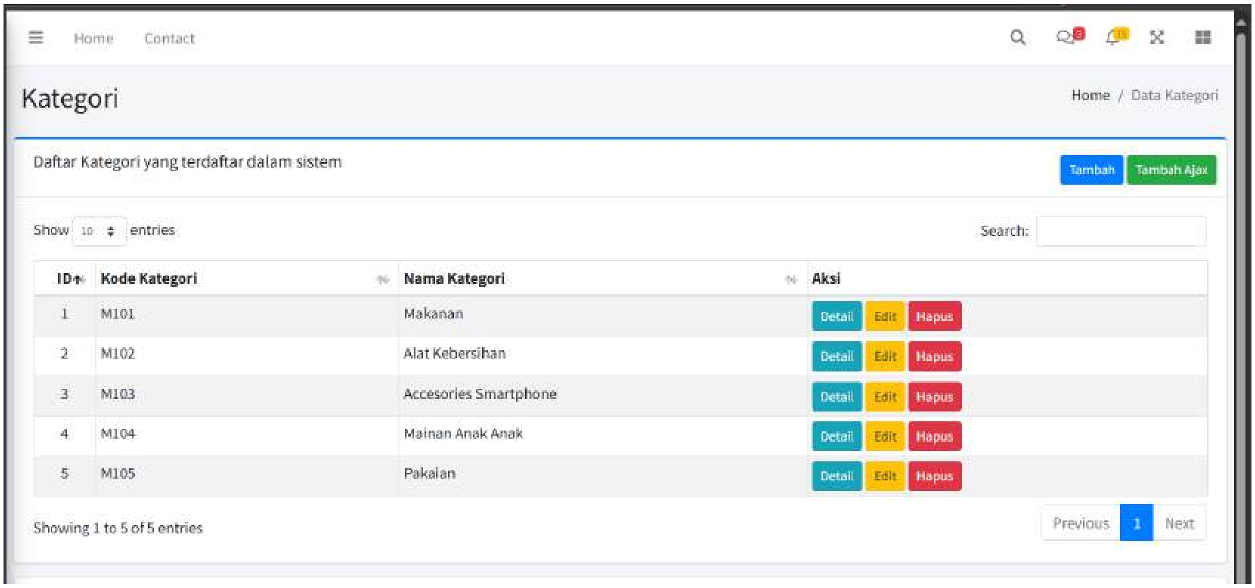
Tambah Level

Tambah Level Baru

Kode Level

Nama Level

2. Table m_kategori



Kategori

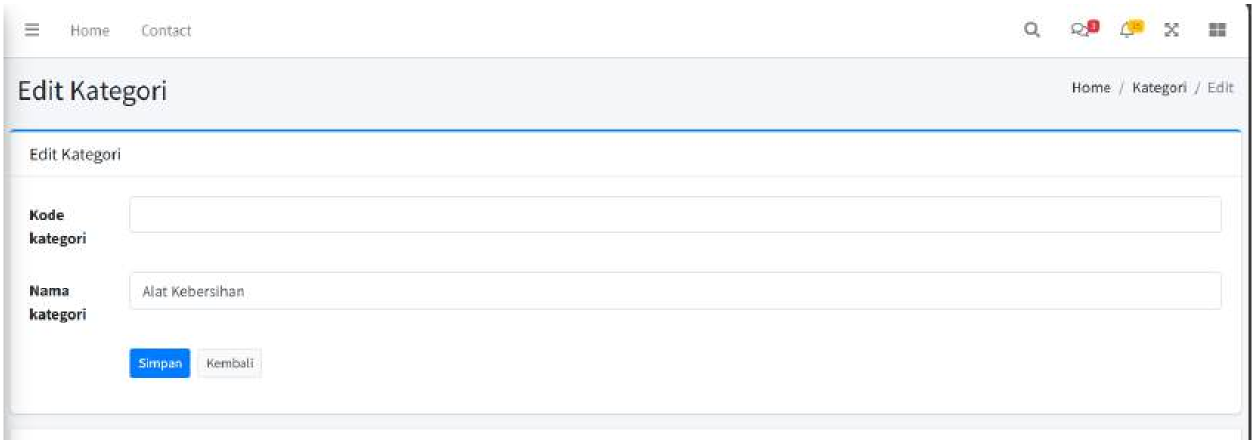
Daftar Kategori yang terdaftar dalam sistem

Show 10 entries

Search:

| ID | Kode Kategori | Nama Kategori | Aksi |
|---|---|---|---|
| 1 | M101 | Makanan | Detail Edit Hapus |
| 2 | M102 | Alat Kebersihan | Detail Edit Hapus |
| 3 | M103 | Accesories Smartphone | Detail Edit Hapus |
| 4 | M104 | Mainan Anak Anak | Detail Edit Hapus |
| 5 | M105 | Pakaian | Detail Edit Hapus |

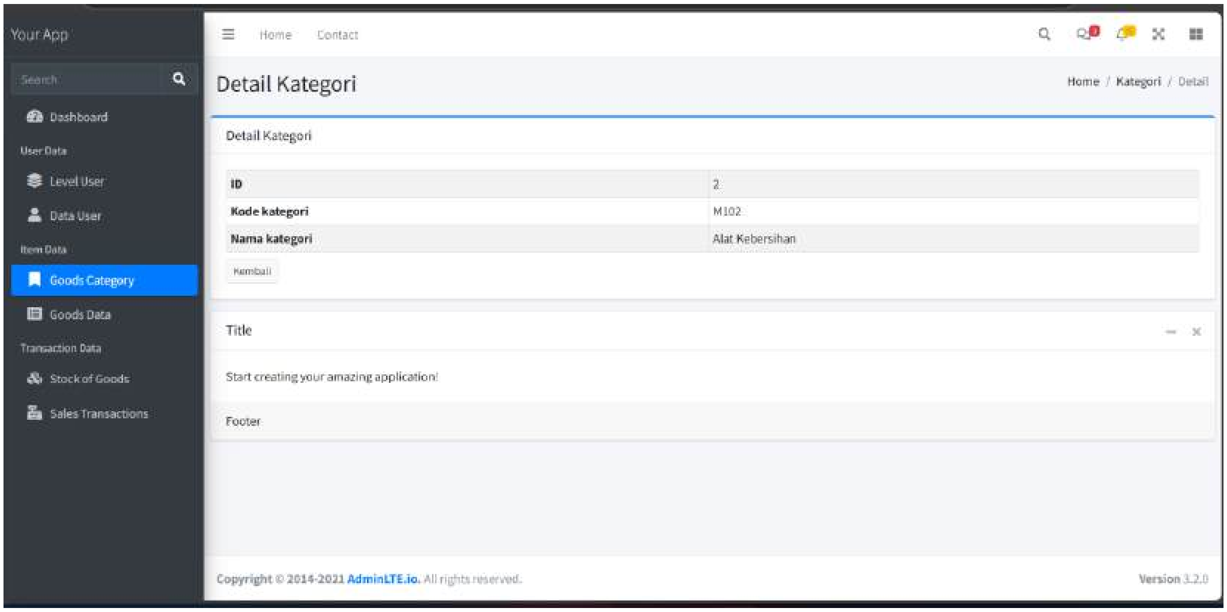
Showing 1 to 5 of 5 entries



## Edit Kategori

Edit Kategori

| | |
|---|---|
| **Kode kategori** | |
| **Nama kategori** | Alat Kebersihan |



## Detail Kategori

Detail Kategori

| | |
|---|---|
| **ID** | 2 |
| **Kode kategori** | M102 |
| **Nama kategori** | Alat Kebersihan |

Title

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Footer

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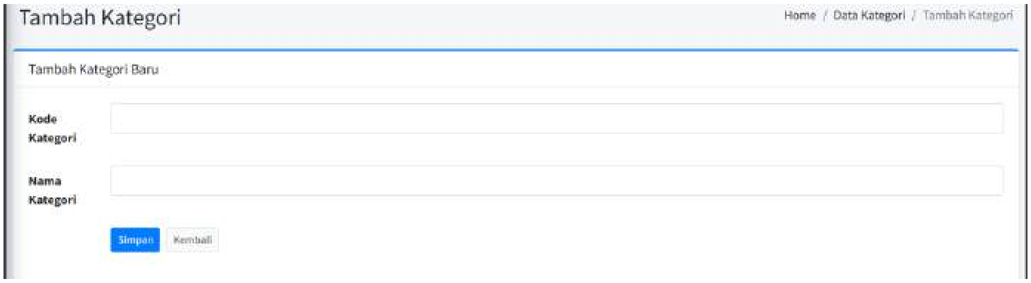
**Version** 3.2.0

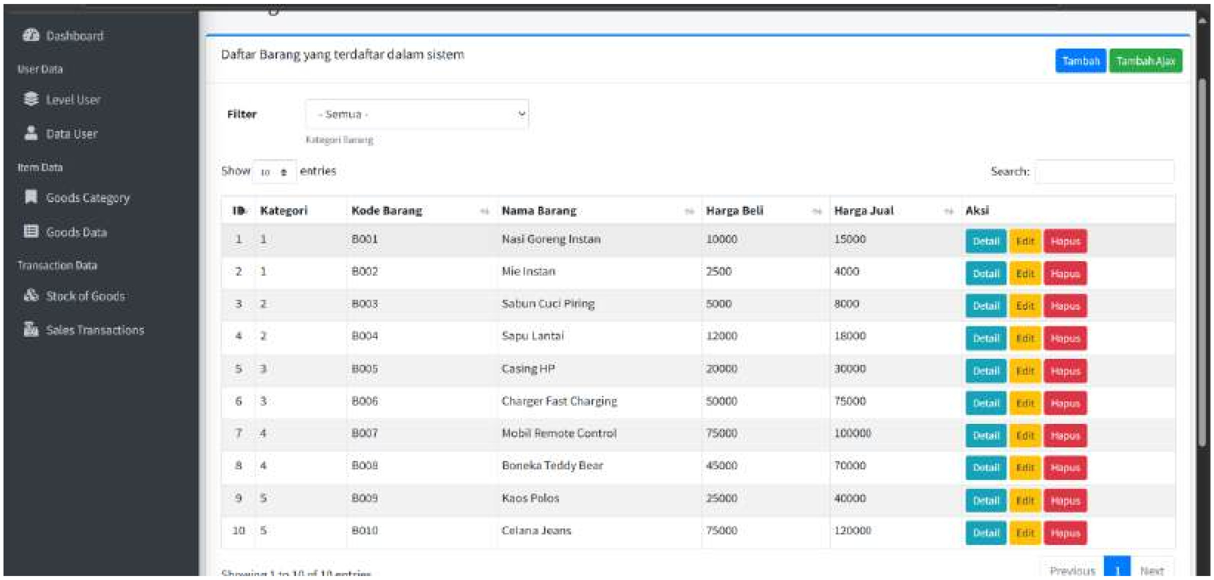


## Tambah Kategori

Tambah Kategori Baru

| | |
|---|---|
| **Kode Kategori** | |
| **Nama Kategori** | |

3. Table m_barang



Daftar Barang yang terdaftar dalam sistem

Filter: - Semua -

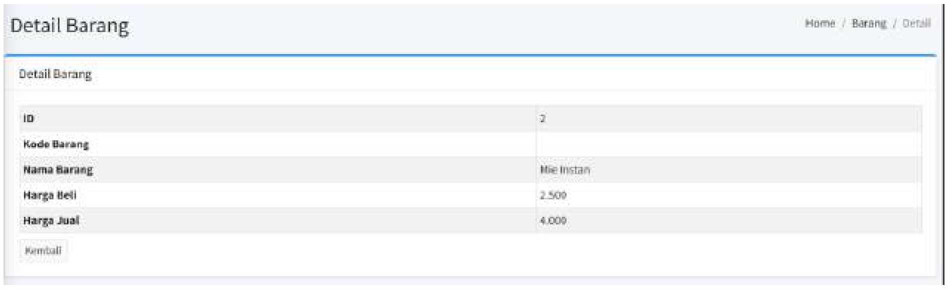
Kategori Barang

Show 10 entries

Search:

| ID | Kategori | Kode Barang | Nama Barang | Harga Beli | Harga Jual | Aksi |
|---|---|---|---|---|---|---|
| 1 | 1 | B001 | Nasi Goreng Instan | 10000 | 15000 | Detail Edit Hapus |
| 2 | 1 | B002 | Mie Instan | 2500 | 4000 | Detail Edit Hapus |
| 3 | 2 | B003 | Sabun Cuci Piring | 5000 | 8000 | Detail Edit Hapus |
| 4 | 2 | B004 | Sapu Lantai | 12000 | 18000 | Detail Edit Hapus |
| 5 | 3 | B005 | Casing HP | 20000 | 30000 | Detail Edit Hapus |
| 6 | 3 | B006 | Charger Fast Charging | 50000 | 75000 | Detail Edit Hapus |
| 7 | 4 | B007 | Mobil Remote Control | 75000 | 100000 | Detail Edit Hapus |
| 8 | 4 | B008 | Boneka Teddy Bear | 45000 | 70000 | Detail Edit Hapus |
| 9 | 5 | B009 | Kaos Polos | 25000 | 40000 | Detail Edit Hapus |
| 10 | 5 | B010 | Celana Jeans | 75000 | 120000 | Detail Edit Hapus |

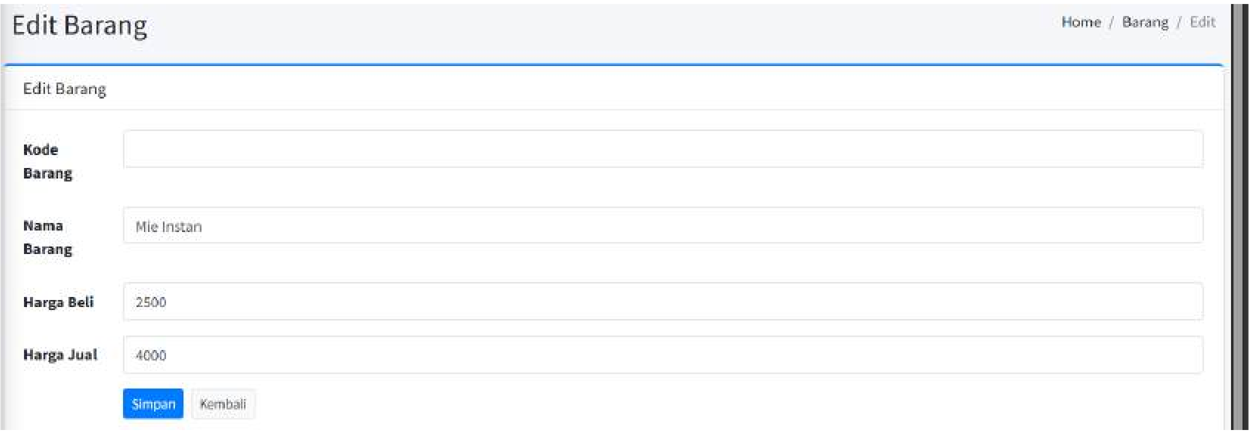
Showing 1 to 10 of 10 entries



Detail Barang

Detail Barang

| | |
|---|---|
| ID | 2 |
| Kode Barang | |
| Nama Barang | Mie Instan |
| Harga Beli | 2.500 |
| Harga Jual | 4.000 |

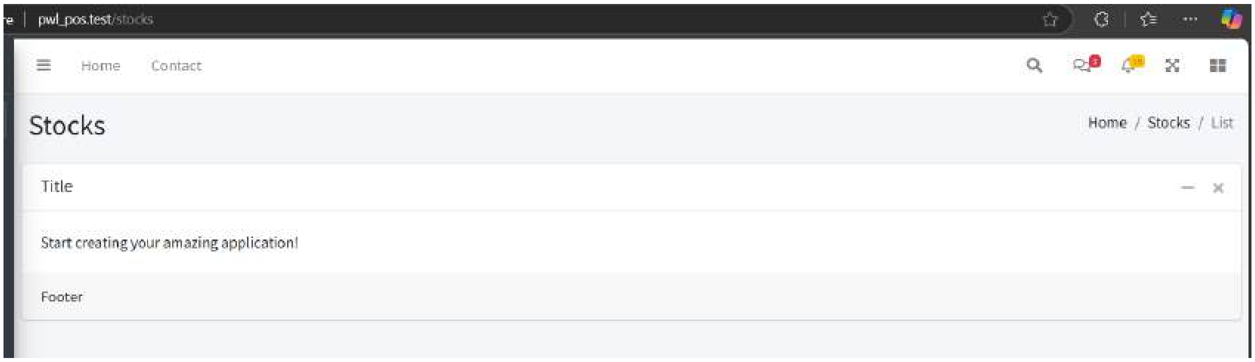


Edit Barang

Edit Barang

| | |
|---|---|
| Kode Barang | |
| Nama Barang | Mie Instan |
| Harga Beli | 2500 |
| Harga Jual | 4000 |

4.



## Stocks

Home / Stocks / List

Title

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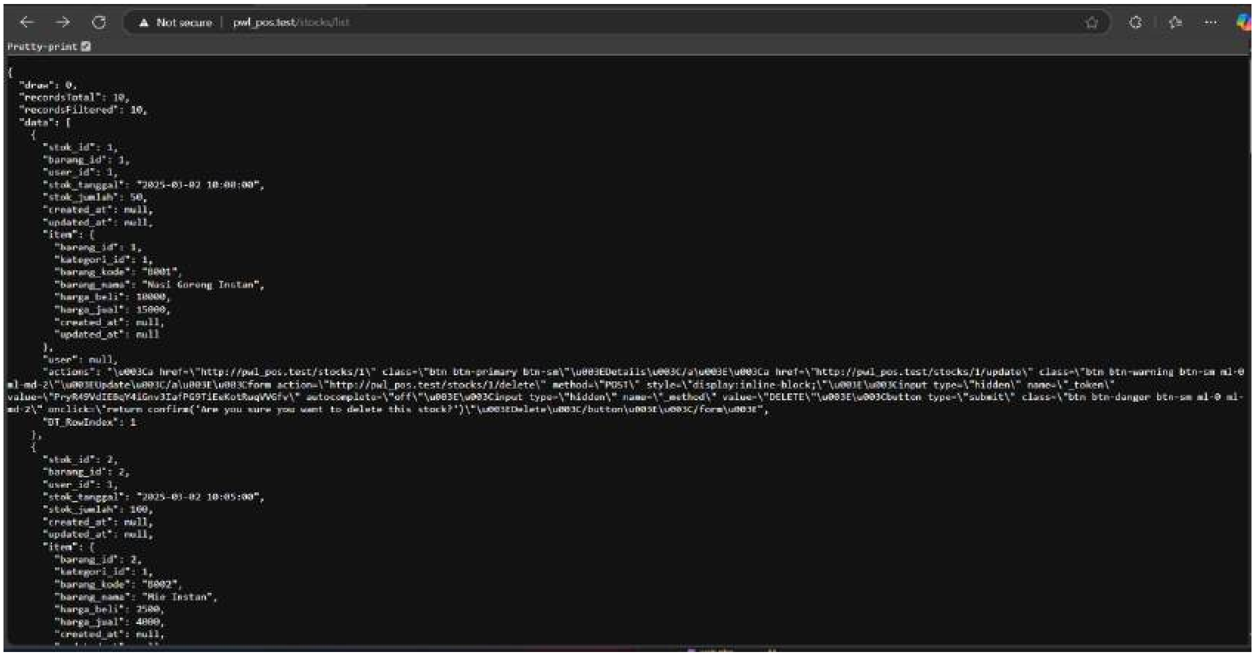
Footer



```
{
  "draw": 0,
  "recordsTotal": 10,
  "recordsFiltered": 10,
  "data": [
    {
      "stok_id": 1,
      "barang_id": 1,
      "user_id": 1,
      "stok_tanggal": "2025-03-02 10:00:00",
      "stok_jumlah": 50,
      "created_at": null,
      "updated_at": null,
      "item": {
        "barang_id": 1,
        "kategori_id": 1,
        "barang_kode": "B001",
        "barang_nama": "Nasi Goreng Instan",
        "harga_beli": 10000,
        "harga_jual": 15000,
        "created_at": null,
        "updated_at": null
      },
      "user": null,
      "actions": "\u003Ca href=\"http://pwl_pos.test/stocks/1\" class=\"btn btn-primary btn-sm\"\u003EDetails\u003C/a\u003E\u003Ca href=\"http://pwl_pos.test/stocks/1/update\" class=\"btn btn-warning btn-sm ml-0
ml-md-2\"\u003EUpdate\u003C/a\u003E\u003Cform action=\"http://pwl_pos.test/stocks/1/delete\" method=\"POST\" style=\"display:inline-block;\"\u003E\u003Cinput type=\"hidden\" name=\"_token\"
value=\"PryR49VdIEBqY41Gnv3IafPG9TiExKotRuqVVGfv\" autocomplete=\"off\"\u003E\u003Cinput type=\"hidden\" name=\"_method\" value=\"DELETE\"\u003E\u003Cbutton type=\"submit\" class=\"btn btn-danger btn-sm ml-0 ml-
md-2\" onclick=\"return confirm('Are you sure you want to delete this stock?')\"\u003EDelete\u003C/button\u003E\u003C/form\u003E",
      "DT_RowIndex": 1
    },
    {
      "stok_id": 2,
      "barang_id": 2,
      "user_id": 1,
      "stok_tanggal": "2025-03-02 10:05:00",
      "stok_jumlah": 100,
      "created_at": null,
      "updated_at": null,
      "item": {
        "barang_id": 2,
        "kategori_id": 1,
        "barang_kode": "B002",
        "barang_nama": "Mie Instan",
        "harga_beli": 2500,
        "harga_jual": 4000,
        "created_at": null,
```