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Matkul : Pemrograman Framework


```
C:\xampp\htdocs>composer create-project --prefer-dist laravel/laravel sample-app
Creating a "laravel/laravel" project at "./sample-app"
Installing laravel/laravel (v12.0.7)
  - Installing laravel/laravel (v12.0.7): Extracting archive
Created project in C:\xampp\htdocs\sample-app
> @php -r "file_exists('.env') || copy('.env.example', '.env');"
Loading composer repositories with package information
Updating dependencies
Lock file operations: 110 installs, 0 updates, 0 removals
  - Locking brick/math (0.12.3)
  - Locking carbonphp/carbon-doctrine-types (3.2.0)
  - Locking dflydev/dot-access-data (v3.0.3)
  - Locking doctrine/inflector (2.0.10)
  - Locking doctrine/lexer (3.0.1)
  - Locking dragonmantank/cron-expression (v3.4.0)
  - Locking egulias/email-validator (4.0.4)
  - Locking fakerphp/faker (v1.24.1)
  - Locking filp/whoops (2.18.0)
  - Locking fruitcake/php-cors (v1.3.0)
  - Locking graham-campbell/result-type (v1.1.3)
  - Locking guzzlehttp/guzzle (7.9.3)
  - Locking guzzlehttp/promises (2.2.0)
  - Locking guzzlehttp/psr7 (2.7.1)
  - Locking guzzlehttp/uri-template (v1.0.4)
  - Locking hamcrest/hamcrest-php (v2.1.1)
  - Locking laravel/framework (v12.12.0)
  - Locking laravel/pail (v1.2.2)
  - Locking laravel/pint (v1.22.0)
  - Locking laravel/prompts (v0.3.5)
  - Locking laravel/sail (v1.42.0)
```



```
> @php -r "file_exists('database/database.sqlite') || touch('database/database.sqlite');"
> @php artisan migrate --graceful --ansi

   INFO  Preparing database.

  Creating migration table ................................................. 19.58ms DONE

   INFO  Running migrations.

  0001_01_01_000000_create_users_table .................................... 37.97ms DONE
  0001_01_01_000001_create_cache_table .................................... 10.80ms DONE
  0001_01_01_000002_create_jobs_table ..................................... 31.69ms DONE


C:\xampp\htdocs>cd sample-app

C:\xampp\htdocs\sample-app>code .

C:\xampp\htdocs\sample-app>php artisan serve

   INFO  Server running on [http://127.0.0.1:8000].

  Press Ctrl+C to stop the server


   INFO  Environment modified. Restarting server...

   INFO  Server running on [http://127.0.0.1:8000].
```
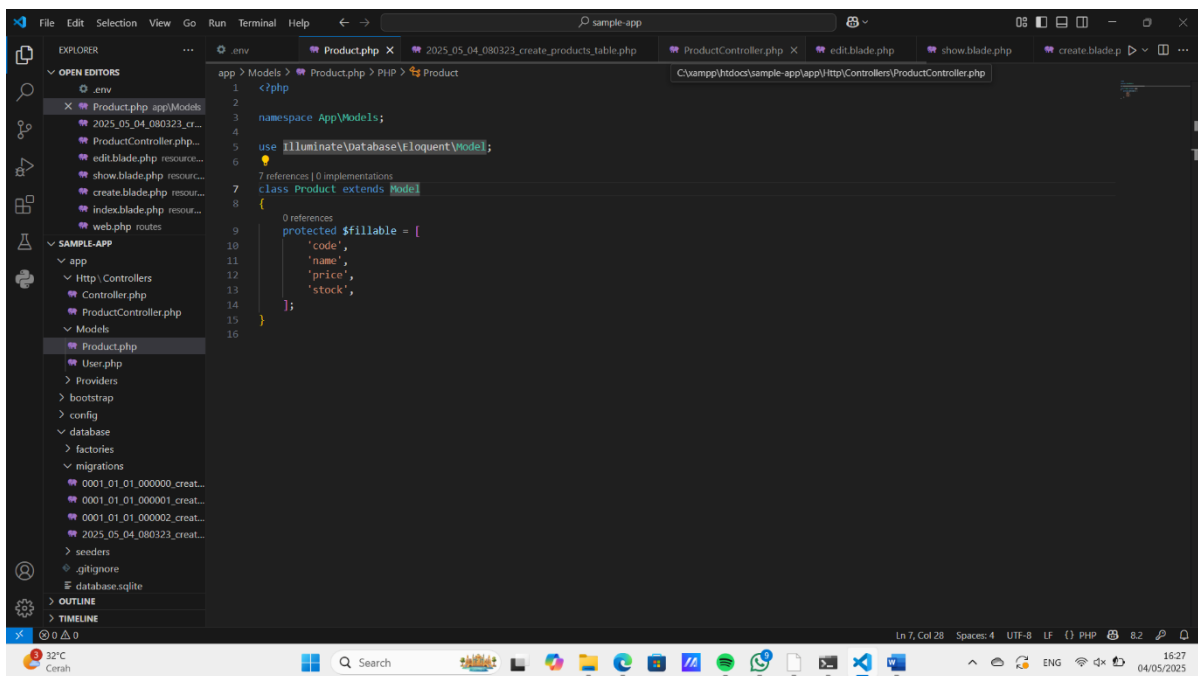
Terminal (top):
```
PS C:\xampp\htdocs\sample-app> php artisan serve

  INFO  Server running on [http://127.0.0.1:8000].

  Press Ctrl+C to stop the server

  INFO  Environment modified. Restarting server...

  INFO  Server running on [http://127.0.0.1:8000].

  Press Ctrl+C to stop the server

  INFO  Environment modified. Restarting server...

  INFO  Server running on [http://127.0.0.1:8000].

  Press Ctrl+C to stop the server

  2025-05-04 14:51:59 / .............................................. ~ 17s
  2025-05-04 14:51:59 .............................................. ~ 16s
  2025-05-04 14:53:24 / .............................................. ~ 2s
  2025-05-04 14:53:24 .............................................. ~ 8s
  2025-05-04 14:56:01 / .............................................. ~ 5s
  2025-05-04 14:56:07 .............................................. ~ 0.37ms

  INFO  Environment modified. Restarting server...

  INFO  Server running on [http://127.0.0.1:8000].

  Press Ctrl+C to stop the server

  2025-05-04 14:57:25 / .............................................. ~ 1s
  2025-05-04 14:57:25 /favicon.ico .............................................. ~ 1s
```
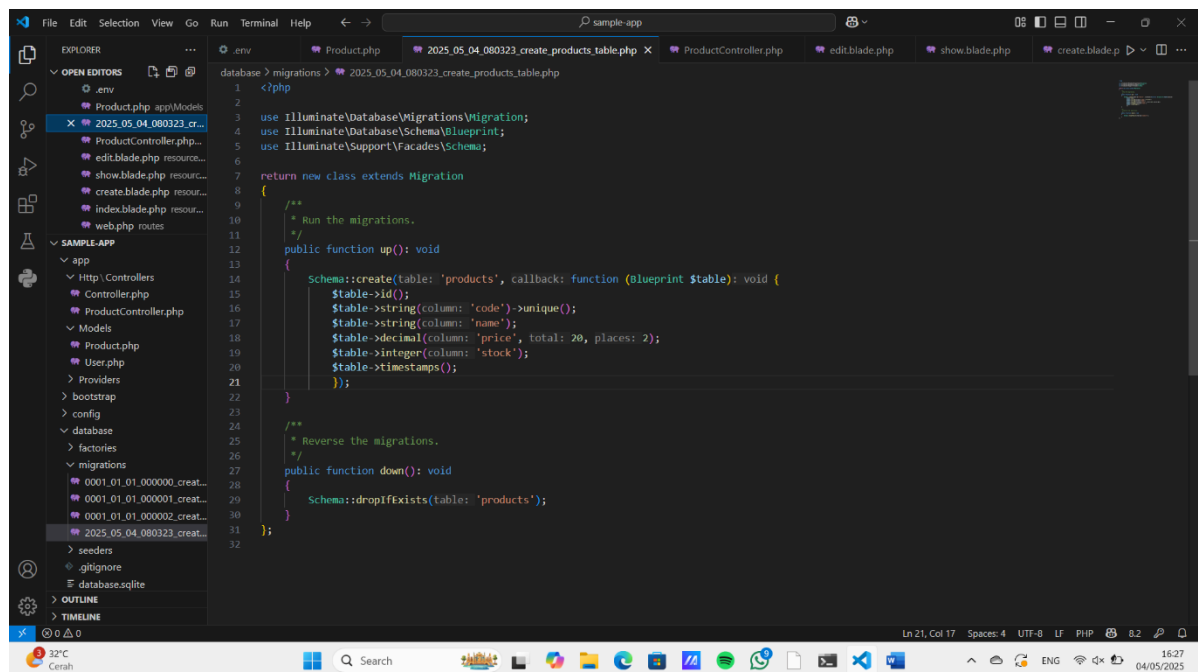
Terminal (middle):
```
  2025-05-04 15:00:51 .............................................. ~ 3s
PS C:\xampp\htdocs\sample-app> php artisan make:model Product -m

  INFO  Model [C:\xampp\htdocs\sample-app\app\Models\Product.php] created successfully.

  INFO  Migration [C:\xampp\htdocs\sample-app\database\migrations/2025_05_04_080323_create_products_table.php] created successfully.

PS C:\xampp\htdocs\sample-app> php artisan migrate

  WARN  The SQLite database configured for this application does not exist: laravel.

  Would you like to create it? (yes/no) [yes]
❯ yes

  INFO  Preparing database.

  Creating migration table .............................................. 84.15ms DONE

  INFO  Running migrations.

  0001_01_01_000000_create_users_table .............................................. 85.68ms DONE
  0001_01_01_000001_create_cache_table .............................................. 25.91ms DONE
  0001_01_01_000002_create_jobs_table .............................................. 63.41ms DONE
  2025_05_04_080323_create_products_table .............................................. 19.16ms DONE

PS C:\xampp\htdocs\sample-app> php artisan make:controller ProductController --model=Product --resource

  INFO  Controller [C:\xampp\htdocs\sample-app\app\Http\Controllers\ProductController.php] created successfully.

PS C:\xampp\htdocs\sample-app> php artisan route:list

  GET|HEAD    / ..............................................
  GET|HEAD    product .............................................. product.index › ProductController@index
  POST        product .............................................. product.store › ProductController@store
  GET|HEAD    product/create .............................................. product.create › ProductController@create
  GET|HEAD    product/{product} .............................................. product.show › ProductController@show
  PUT|PATCH   product/{product} .............................................. product.update › ProductController@update
  DELETE      product/{product} .............................................. product.destroy › ProductController@destroy
  GET|HEAD    product/{product}/edit .............................................. product.edit › ProductController@edit
  GET|HEAD    storage/{path} .............................................. storage.local
  GET|HEAD    up
```
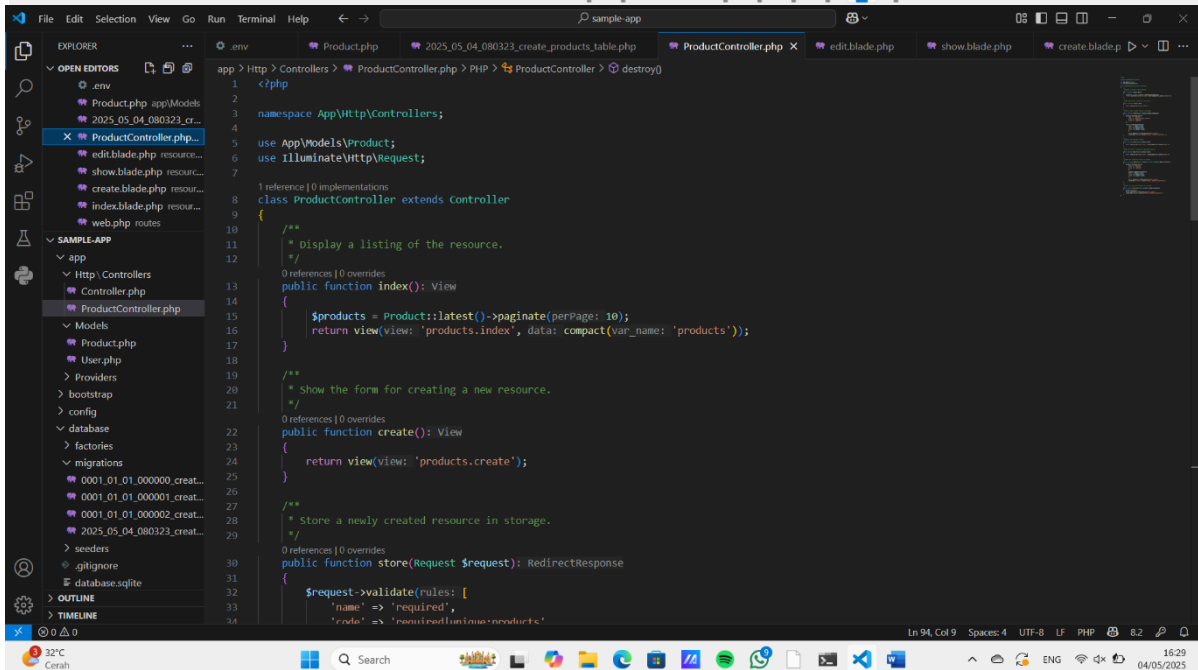
Editor (bottom) — .env:
```
12  # APP_MAINTENANCE_STORE=database
13
14  PHP_CLI_SERVER_WORKERS=4
15
16  BCRYPT_ROUNDS=12
17
18  LOG_CHANNEL=stack
19  LOG_STACK=single
20  LOG_DEPRECATIONS_CHANNEL=null
21  LOG_LEVEL=debug
22
23  DB_CONNECTION=sqlite
24  DB_HOST=127.0.0.1
25  DB_PORT=3306
26  DB_DATABASE=laravel
27  DB_USERNAME=root
28  DB_PASSWORD=
29
30  SESSION_DRIVER=database
31  SESSION_LIFETIME=120
32  SESSION_ENCRYPT=false
33  SESSION_PATH=/
34  SESSION_DOMAIN=null
35
36  BROADCAST_CONNECTION=log
37  FILESYSTEM_DISK=local
38  QUEUE_CONNECTION=database
39
40  CACHE_STORE=database
41  # CACHE_PREFIX=
42
43  MEMCACHED_HOST=127.0.0.1
44
45  REDIS_CLIENT=phpredis
46  REDIS_HOST=127.0.0.1
47  REDIS_PASSWORD=null
48  REDIS_PORT=6379
```

Screenshot 1 — `Product.php` (app\Models)

```php
<?php

namespace App\Models;

use Illuminate\Database\Eloquent\Model;

class Product extends Model
{
    protected $fillable = [
        'code',
        'name',
        'price',
        'stock',
    ];
}
```

Screenshot 2 — `2025_05_04_080323_create_products_table.php` (database\migrations)

```php
<?php

use Illuminate\Database\Migrations\Migration;
use Illuminate\Database\Schema\Blueprint;
use Illuminate\Support\Facades\Schema;

return new class extends Migration
{
    /**
     * Run the migrations.
     */
    public function up(): void
    {
        Schema::create(table: 'products', callback: function (Blueprint $table): void {
            $table->id();
            $table->string(column: 'code')->unique();
            $table->string(column: 'name');
            $table->decimal(column: 'price', total: 20, places: 2);
            $table->integer(column: 'stock');
            $table->timestamps();
        });
    }

    /**
     * Reverse the migrations.
     */
    public function down(): void
    {
        Schema::dropIfExists(table: 'products');
    }
};
```

Screenshot 3 — `ProductController.php` (app\Http\Controllers)

```php
<?php

namespace App\Http\Controllers;

use App\Models\Product;
use Illuminate\Http\Request;

class ProductController extends Controller
{
    /**
     * Display a listing of the resource.
     */
    public function index(): View
    {
        $products = Product::latest()->paginate(perPage: 10);
        return view(view: 'products.index', data: compact(var_name: 'products'));
    }

    /**
     * Show the form for creating a new resource.
     */
    public function create(): View
    {
        return view(view: 'products.create');
    }

    /**
     * Store a newly created resource in storage.
     */
    public function store(Request $request): RedirectResponse
    {
        $request->validate(rules: [
            'name' => 'required',
            'code' => 'required|unique:products'
        ]);
    }
}
```

sample-app
File Edit Selection View Go Run Terminal Help
.env   Product.php   2025_05_04_080323_create_products_table.php   ProductController.php ✕   edit.blade.php   show.blade.php   create.blade.p
app > Http > Controllers > ProductController.php > PHP > ProductController > destroy()

```php
 8      class ProductController extends Controller
30          public function store(Request $request): RedirectResponse
34                  'code' => 'required|unique:products',
35                  'price' => 'required',
36                  'stock' => 'required',
37              ]);
38
39              Product::create(attributes: [
40                  'name' => $request->name,
41                  'code' => $request->code,
42                  'price' => $request->price,
43                  'stock' => $request->stock,
44              ]);
45
46              return redirect()->route(route: 'product.index')
47                  ->with(key: 'success',value: 'Product created successfully.');
48          }
49
50          /**
51           * Display the specified resource.
52           */
            0 references | 0 overrides
53          public function show(Product $product): View
54          {
55              return view(view: 'products.show', data: compact(var_name: 'product'));
56          }
57
58          /**
59           * Show the form for editing the specified resource.
60           */
            0 references | 0 overrides
61          public function edit(Product $product): View
62          {
63              return view(view: 'products.edit', data: compact(var_name: 'product'));
64          }
65
66          /**
```

---

sample-app
File Edit Selection View Go Run Terminal Help
.env   Product.php   2025_05_04_080323_create_products_table.php   ProductController.php ✕   edit.blade.php   show.blade.php   create.blade.p
app > Http > Controllers > ProductController.php > PHP > ProductController > destroy()

```php
 8      class ProductController extends Controller
65
66          /**
67           * Update the specified resource in storage.
68           */
            0 references | 0 overrides
69          public function update(Request $request, Product $product): RedirectResponse
70          {
71              $request->validate(rules: [
72                  'name' => 'required',
73                  'price' => 'required',
74                  'stock' => 'required',
75              ]);
76
77              $product->update(attributes: [
78                  'name' => $request->name,
79                  'price' => $request->price,
80                  'stock' => $request->stock,
81              ]);
82
83              return redirect()->route(route: 'product.index')
84                  ->with(key: 'success',value: 'Product updated successfully');
85          }
86
87          /**
88           * Remove the specified resource from storage.
89           */
            0 references | 0 overrides
90          public function destroy(Product $product): RedirectResponse
91          {
92              $product->delete();
93              return redirect()->route(route: 'product.index')
94                  ->with(key: 'success',value: 'Product deleted successfully');
95          }
96      }
97
```

---

sample-app
File Edit Selection View Go Run Terminal Help
.env   Product.php   2025_05_04_080323_create_products_table.php   ProductController.php   edit.blade.php ✕   show.blade.php   create.blade.p
resources > views > products > edit.blade.php

```php
 1      <!DOCTYPE html>
 2      <html lang="en">
 3      <head>
 4      <meta charset="UTF-8">
 5      <meta name="viewport" content="width=device-width, initial-scale=1.0">
 6      <meta http-equiv="X-UA-Compatible" content="ie=edge">
 7      <meta name="csrf-token" content="{{ csrf_token() }}">
 8      <title>EDIT Product - Tutorial CRUD Laravel 12 @ qadrlabs.com</title>
 9      <script src="https://unpkg.com/@tailwindcss/browser@4"></script>
10      </head>
11      <body>
12      <div class="container mx-auto mt-10 mb-10 px-10">
13      <div class="grid grid-cols-8 gap-4 p-5">
14      <div class="col-span-4 mt-2">
15      <h1 class="text-3xl font-bold">
16      EDIT PRODUCT
17      </h1>
18      </div>
19      <div class="col-span-4">
20      </div>
21      </div>
22      <div class="bg-white p-5 rounded shadow-sm">
23      <form action="{{ route(name: 'product.update', parameters: $product) }}" method="POST">
24      @csrf
25      @method('PUT')
26      <div class="mb-5">
27      <label for="name">Name</label>
28      <input type="text" class="
29      form-control
30      block
31      w-full
32              px-3
33              py-1.5
34              text-base
35              font-normal
36              text-gray-700
37              bg-white bg-clip-padding
```

show.blade.php — resources > views > products > show.blade.php

```php
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4  <meta charset="UTF-8">
5  <meta name="viewport" content="width=device-width, initial-scale=1.0">
6  <meta http-equiv="X-UA-Compatible" content="ie=edge">
7  <meta name="csrf-token" content="{{ csrf_token() }}">
8  <title>Product Detail {{ $product->name }} - Tutorial CRUD Laravel 12 @
9  qadrlabs.com</title>
10 <script src="https://unpkg.com/@tailwindcss/browser@4"></script>
11 </head>
12 <body>
13 <div class="container mx-auto mt-10 mb-10 px-10">
14 <div class="grid grid-cols-8 gap-4 mb-4 p-5">
15 <div class="col-span-4 mt-2">
16 <h1 class="text-3xl font-bold">
17 Product Detail {{ $product->name }}
18 </h1>
19 </div>
20 </div>
21 <div class="bg-white p-5 rounded shadow-sm">
22 <div class="relative overflow-x-auto">
23 <table class="w-full text-sm text-left rtl:text-right text-gray-500 dark:text-gray-400">
24 <tbody>
25 <tr class="bg-white border-b dark:bg-gray-800 dark:border-gray-700 border-gray
26 200">
27 <th scope="row" class="px-6 py-4 font-medium text-gray-900 whitespace
28 nowrap dark:text-white">
29 Product Name
30 </th>
31 <td class="px-6 py-4">
32 {{ $product->name}}
33 </td>
34 </tr>
35 <tr class="bg-white border-b dark:bg-gray-800 dark:border-gray-700 border-gray
36 200">
37 <th scope="row" class="px-6 py-4 font-medium text-gray-900 whitespace
```
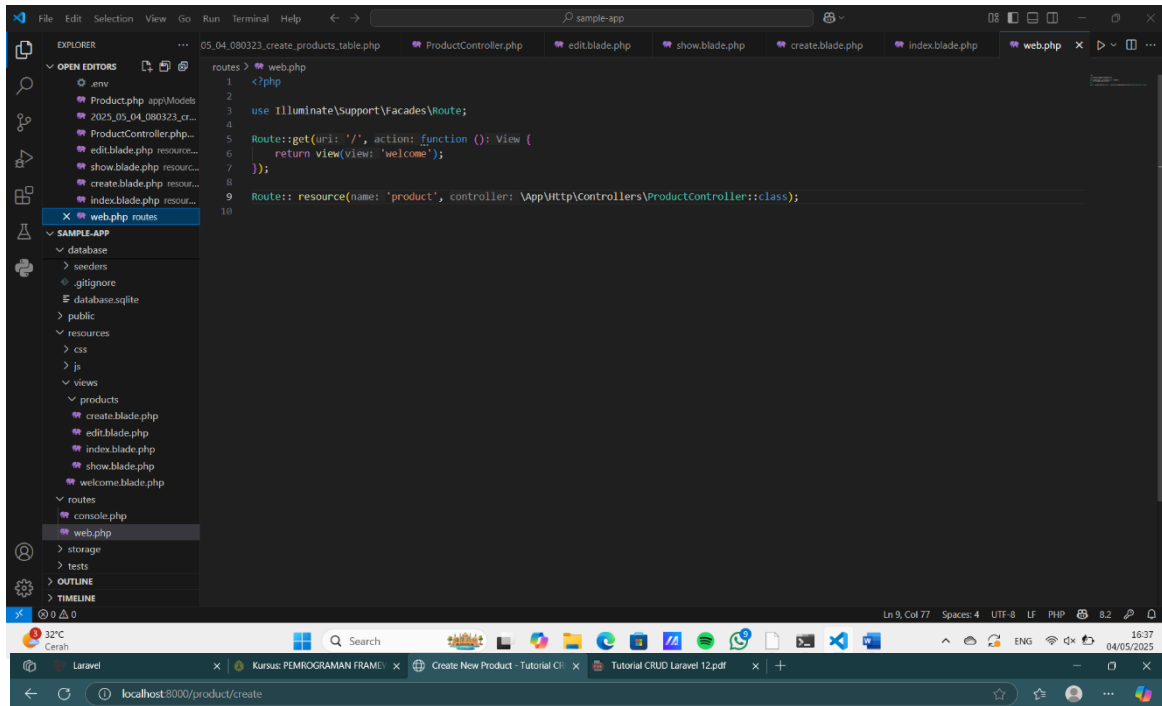
Ln 78, Col 9 — Spaces: 4 — UTF-8 — CRLF — PHP

create.blade.php — resources > views > products > create.blade.php

```php
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4  <meta charset="UTF-8">
5  <meta name="viewport" content="width=device-width, initial-scale=1.0">
6  <meta http-equiv="X-UA-Compatible" content="ie=edge">
7  <meta name="csrf-token" content="{{ csrf_token() }}">
8  <title>Create New Product - Tutorial CRUD Laravel 12 @ qadrlabs.com</title>
9  <script src="https://unpkg.com/@tailwindcss/browser@4"></script>
10 </head>
11
12 <body>
13
14 <div class="container mx-auto mt-10 mb-10 px-10">
15 <div class="grid grid-cols-8 gap-4 p-5">
16 <div class="col-span-4 mt-2">
17 <h1 class="text-3xl font-bold">
18 CREATE NEW PRODUCT
19 </h1>
20 </div>
21 <div class="col-span-4">
22
23 </div>
24 </div>
25 <div class="bg-white p-5 rounded shadow-sm">
26 <form action="{{ route(name: 'product.store') }}" method="POST">
27 @csrf
28
29 <div class="mb-5">
30 <label for="name">Name</label>
31 <input type="text" class="
32 form-control
33 block
34 w-full
35 px-3
36 py-1.5
37 text-base
```

Ln 160, Col 9 — Spaces: 4 — UTF-8 — CRLF — PHP

index.blade.php — resources > views > products > index.blade.php

```php
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4  <meta charset="UTF-8">
5  <meta name="viewport" content="width=device-width, initial-scale=1.0">
6  <meta http-equiv="X-UA-Compatible" content="ie=edge">
7  <meta name="csrf-token" content="{{ csrf_token() }}">
8  <title>Product List - Tutorial CRUD Laravel 12 @ qadrlabs.com</title>
9  <script src="https://unpkg.com/@tailwindcss/browser@4"></script>
10 </head>
11 <body>
12 <div class="container mx-auto mt-10 mb-10 px-10">
13 <div class="grid grid-cols-8 gap-4 mb-4 p-5">
14 <div class="col-span-4 mt-2">
15 <h1 class="text-3xl font-bold">
16 DAFTAR PRODUCT
17 </h1>
18 </div>
19 <div class="col-span-4">
20 <div class="flex justify-end">
21 <a href="{{ route(name: 'product.create') }}"
22 class="inline-block px-6 py-2.5 bg-blue-600 text-white font-medium text-xs
23 leading-tight uppercase rounded-full shadow-md hover:bg-blue-700 hover:shadow-lg
24 focus:bg-blue-700 focus:shadow-lg focus:outline-none focus:ring-0 active:bg-blue-800
25 active:shadow-lg transition duration-150 ease-in-out"
26 id="add-product-btn">Add Product</a>
27 </div>
28 </div>
29 </div>
30 <div class="bg-white p-5 rounded shadow-sm">
31 <!-- Notifikasi menggunakan flash session data -->
32 @if (session(key: 'success'))
33 <div class="p-3 rounded bg-green-500 text-green-100 mb-4">
34 {{ session(key: 'success') }}
35 </div>
36 @endif
37 <div class="relative overflow-x-auto">
```
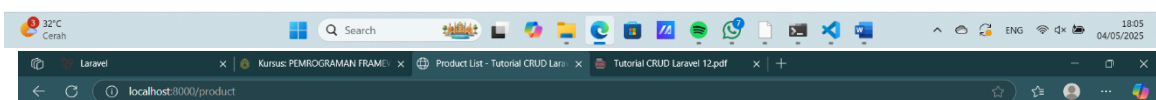
Ln 127, Col 8 — Spaces: 4 — UTF-8 — CRLF — PHP

```php
<?php

use Illuminate\Support\Facades\Route;

Route::get(uri: '/', action: function (): View {
    return view(view: 'welcome');
});

Route:: resource(name: 'product', controller: \App\Http\Controllers\ProductController::class);
```

CREATE NEW PRODUCT

Name

Iphone 16 Pro Max

Code

IP256

Price

28900000

Stock

14

SAVE   BACK

DAFTAR PRODUCT

ADD PRODUCT

Product created successfully.

NO	PRODUCT NAME	CODE	STOCK	PRICE	ACTION
1	Iphone 16 Pro Max	IP256	14	28900000	VIEW EDIT DELETE
2	Laptop ASUS ROG strix	LP001	8	16500000	VIEW EDIT DELETE

EDIT PRODUCT

Name

Iphone 16 Pro Max

Code

IP256

Price

28900000

Stock

10

SAVE CHANGES   BACK

DAFTAR PRODUCT

ADD PRODUCT

Product updated successfully

NO	PRODUCT NAME	CODE	STOCK	PRICE	ACTION
1	Iphone 16 Pro Max	IP256	10	28900000	VIEW EDIT DELETE
2	Laptop ASUS ROG strix	LP001	8	16500000	VIEW EDIT DELETE

Product Detail Iphone 16 Pro Max

Product Name	Iphone 16 Pro Max
Product Code	IP256
Stock	10
Price	28900000

BACK   **EDIT PRODUCT**

First window

localhost:8000 says

Apakah Anda Yakin ?

OK   Cancel

DAFTAR PRODUCT

ADD PRODUCT

Product updated successfully

NO	PRODUCT NAME	CODE	STOCK	PRICE	ACTION
1	Iphone 16 Pro Max	IP256	10	28900000	VIEW EDIT DELETE
2	Laptop ASUS ROG strix	LP001	8	16500000	VIEW EDIT DELETE

Second window

NO	PRODUCT NAME	CODE	STOCK	PRICE	ACTION
1	Product 10	PR-10	6	347857	VIEW EDIT DELETE
2	Product 9	PR-09	23	390602	VIEW EDIT DELETE
3	Product 8	PR-908	36	148562	VIEW EDIT DELETE
4	Product 99	PR-99	2	581093	VIEW EDIT DELETE
5	Product 18	PR-18	27	295636	VIEW EDIT DELETE
6	Product 17	PR-17	12	290713	VIEW EDIT DELETE
7	Product 16	PR-16	18	462917	VIEW EDIT DELETE
8	Product 15	PR-15	42	573513	VIEW EDIT DELETE
9	Product 14	PR-14	78	69601	VIEW EDIT DELETE
10	Product 13	PR-13	23	843632	VIEW EDIT DELETE