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Check version laravel

```
C:\xampp\htdocs\laravel>php artisan --version
Laravel Framework 10.0.3
```

Install Laravel 10 For CRUD Operation

```
C:\>composer create-project --prefer-dist laravel/laravel laravel_10_crud
Creating a "laravel/laravel" project at "./laravel_10_crud"
Installing laravel/laravel (v10.2.0)
```

Setup Database Configuration

```
DB_CONNECTION=mysql
DB_HOST=127.0.0.1
DB_PORT=3306
DB_DATABASE=laravel_10_crud
DB_USERNAME=root
DB_PASSWORD=root
```

Create Migration

```
C:\xampp\htdocs\laravel>php artisan make:migration create_products_table --create=products

 INFO  Migration [C:\xampp\htdocs\laravel\database\migrations\2023_05_11_103602_create_products_table.php]
cessfully.
```

Migration

```php
<?php

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

class CreateProductsTable extends Migration {

/**
* Run the migrations.
*
* @return void */

public function up()
{
    Schema::create('products', function (Blueprint $table) {
        $table->bigIncrements('id');
        $table->string('name')->nullable();
        $table->longText('detail')->nullable();
        $table->timestamps();
    });
}


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

run the migration

```
C:\xampp\htdocs\laravel>php artisan migrate

   Illuminate\Database\QueryException
```

Add Resource Route

```php
<?php

use Illuminate\Support\Facades\Route;

use App\Http\Controllers\ProductController;

/*
|--------------------------------------------------------------------------
| Web Routes
|--------------------------------------------------------------------------
|
| Here is where you can register web routes for your application. These
| routes are loaded by the RouteServiceProvider within a group that
| contains the "web" middleware group. Now create something great!
|
*/

Route::resource('products', ProductController::class);
```

Add Controller and Model

```
C:\xampp\htdocs\laravel>php artisan make:controller ProductController --resource --model=Product

   A App\Models\Product model does not exist. Do you want to generate it? (yes/no) [yes]
 yes

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

   INFO  Controller [C:\xampp\htdocs\laravel\app/Http/Controllers/ProductController.php] created successfully.
```

changes to the Product Model. add the column name to the model

```php
<?php

namespace App\Models;

use Illuminate\Database\Eloquent\Factories\HasFactory;
use Illuminate\Database\Eloquent\Model;

class Product extends Model
{
    use HasFactory;

    protected $fillable = [
        'id', 'name', 'detail'
    ];
}
```

we need to add code in the ProductController.php

```php
<?php

namespace App\Http\Controllers;

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

class ProductController extends Controller
{
    /**
     * Display a listing of the resource.
     *
     * @return \Illuminate\Http\Response
     */
    public function index()
    {
        $products = Product::latest()->paginate(5);
        return view('products.index',compact('products'))->with('i', (request()->input('page', 1) - 1) * 5);
    }

    /**
     * Show the form for creating a new resource.
     *
     * @return \Illuminate\Http\Response
     */
    public function create()
    {
        return view('products.create');
    }

    /**
     * Store a newly created resource in storage.
     *
     * @param  \Illuminate\Http\Request  $request
     * @return \Illuminate\Http\Response
     */
    public function store(Request $request)
    {
        $request->validate([
            'name' => 'required',
            'detail' => 'required',
        ]);

        Product::create($request->all());

        return redirect()->route('products.index')->with('success','Product created successfully.');
    }

    /**
     * Display the specified resource.
     *
     * @param  \App\Models\Product  $product
     * @return \Illuminate\Http\Response
     */
    public function show(Product $product)
    {
        return view('products.show',compact('product'));
    }

    /**
     * Show the form for editing the specified resource.
     *
     * @param  \App\Models\Product  $product
     * @return \Illuminate\Http\Response
     */
    public function edit(Product $product)
    {
        return view('products.edit',compact('product'));
    }

    /**
     * Update the specified resource in storage.
     *
     * @param  \Illuminate\Http\Request  $request
     * @param  \App\Models\Product  $product
     * @return \Illuminate\Http\Response
     */
    public function update(Request $request, Product $product)
    {
        $request->validate([
            'name' => 'required',
            'detail' => 'required',
        ]);

        $product->update($request->all());

        return redirect()->route('products.index')->with('success','Product updated successfully');
```

Add Blade Files

layout.blade.php

```
<!DOCTYPE html>
<html>
<head>
    <title>How To Create CRUD Operation In Laravel 10 - Techsolutionstuff</title>
    <link href="https://cdnjs.cloudflare.com/ajax/libs/twitter-bootstrap/4.0.0-alpha/css/bootstrap.css" rel="stylesheet">
</head>
<body>

<div class="container" style="margin-top: 15px;">
    @yield('content')
</div>

</body>
</html>
```

index.blade.php

```blade
@extends('products.layout')

@section('content')
    <div class="row">
        <div class="col-lg-12 margin-tb">
            <div class="pull-left">
                <h2>How To Create CRUD Operation In Laravel 10 - Techsolutionstuff</h2>
            </div>
            <div class="pull-right">
                <a class="btn btn-success" href="{{ route('products.create') }}"> Create New Product</a>
            </div>
        </div>
    </div>

    @if ($message = Session::get('success'))
        <div class="alert alert-success">
            <p>{{ $message }}</p>
        </div>
    @endif

    <table class="table table-bordered">
        <tr>
            <th>No</th>
            <th>Name</th>
            <th>Details</th>
            <th width="280px">Action</th>
        </tr>
        @foreach ($products as $product)
        <tr>
            <td>{{ ++$i }}</td>
            <td>{{ $product->name }}</td>
            <td>{{ $product->detail }}</td>
            <td>
                <form action="{{ route('products.destroy',$product->id) }}" method="POST">

                    <a class="btn btn-info" href="{{ route('products.show',$product->id) }}">Show</a>

                    <a class="btn btn-primary" href="{{ route('products.edit',$product->id) }}">Edit</a>

                    @csrf
                    @method('DELETE')

                    <button type="submit" class="btn btn-danger">Delete</button>
                </form>
            </td>
        </tr>
        @endforeach
    </table>

    {!! $products->links() !!}

@endsection
```

create.blade.php

```blade
@extends('products.layout')

@section('content')
<div class="row">
    <div class="col-lg-12 margin-tb">
        <div class="pull-left">
            <h2>Add New Product</h2>
        </div>
        <div class="pull-right">
            <a class="btn btn-primary" href="{{ route('products.index') }}"> Back</a>
        </div>
    </div>
</div>

@if ($errors->any())
    <div class="alert alert-danger">
        <strong>Error!</strong> <br>
        <ul>
            @foreach ($errors->all() as $error)
                <li>{{ $error }}</li>
            @endforeach
        </ul>
    </div>
@endif

<form action="{{ route('products.store') }}" method="POST">
    @csrf

     <div class="row">
        <div class="col-xs-12 col-sm-12 col-md-12">
            <div class="form-group">
                <strong>Name:</strong>
                <input type="text" name="name" class="form-control" placeholder="Name">
            </div>
        </div>
        <div class="col-xs-12 col-sm-12 col-md-12">
            <div class="form-group">
            <div class="form-group">
                <strong>Detail:</strong>
                <textarea class="form-control" style="height:150px" name="detail" placeholder="Detail"></textarea>
            </div>
        </div>
        <div class="col-xs-12 col-sm-12 col-md-12 text-center">
            <button type="submit" class="btn btn-primary">Submit</button>
        </div>
    </div>

</form>
@endsection
```

edit.blade.php

```blade
@extends('products.layout')

@section('content')
    <div class="row">
        <div class="col-lg-12 margin-tb">
            <div class="pull-left">
                <h2>Edit Product</h2>
            </div>
            <div class="pull-right">
                <a class="btn btn-primary" href="{{ route('products.index') }}"> Back</a>
            </div>
        </div>
    </div>

    @if ($errors->any())
        <div class="alert alert-danger">
            <strong>Error!</strong> <br>
            <ul>
                @foreach ($errors->all() as $error)
                    <li>{{ $error }}</li>
                @endforeach
            </ul>
        </div>
    @endif

    <form action="{{ route('products.update',$product->id) }}" method="POST">
        @csrf
        @method('PUT')

        <div class="row">
            <div class="col-xs-12 col-sm-12 col-md-12">
                <div class="form-group">
                    <strong>Name:</strong>
                    <input type="text" name="name" value="{{ $product->name }}" class="form-control" placeholder="Name">
                </div>
            </div>
            <div class="col-xs-12 col-sm-12 col-md-12">
                <div class="form-group">
                    <strong>Detail:</strong>
                    <textarea class="form-control" style="height:150px" name="detail" placeholder="Detail">{{ $product->detail }}
                </div>
            </div>
            <div class="col-xs-12 col-sm-12 col-md-12 text-center">
                <button type="submit" class="btn btn-primary">Submit</button>
            </div>
        </div>

    </form>
@endsection
```

show.blade.php

```
@extends('products.layout')
@section('content')
    <div class="row">
        <div class="col-lg-12 margin-tb">
            <div class="pull-left">
                <h2> Show Product</h2>
            </div>
            <div class="pull-right">
                <a class="btn btn-primary" href="{{ route('products.index') }}"> Back</a>
            </div>
        </div>
    </div>

    <div class="row">
        <div class="col-xs-12 col-sm-12 col-md-12">
            <div class="form-group">
                <strong>Name:</strong>
                {{ $product->name }}
            </div>
        </div>
        <div class="col-xs-12 col-sm-12 col-md-12">
            <div class="form-group">
                <strong>Details:</strong>
                {{ $product->detail }}
            </div>
        </div>
    </div>
@endsection
```

Run Laravel 10 CRUD Operation

```
C:\xampp\htdocs\laravel>php artisan serve

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

output

Add New Product   Back

Name:

```
Name
```

Detail:

```
Detail
```

Submit