**composer require maatwebsite/excel**

Exportation

**php artisan make:export ProductExport --model=Product**

**sur app/exports/ProductExport.php**

<?php

namespace App\Exports;

use App\Models\Product;

use Maatwebsite\Excel\Concerns\FromCollection;

use Maatwebsite\Excel\Concerns\WithHeadings;

use Illuminate\Support\Facades\DB;

use Maatwebsite\Excel\Concerns\WithCustomStartCell;

class ProductExport implements FromCollection, WithCustomStartCell,WithHeadings

{

    /\*\*

    \* @return \Illuminate\Support\Collection

    \*/

    public function collection()

    {

        return Product::join('categories', 'category\_id','=' ,'categories.id')

        ->join('suppliers', 'supplier\_id','=' ,'suppliers.id')

        ->select('products.id', 'products.name','products.description',  'price', DB::raw("CONCAT(suppliers.first\_name, ' ', suppliers.last\_name) as supplier") , 'categories.name as category')

        ->get();

    }

     /\*\*

     \* Write code on Method

     \*

     \* @return response()

     \*/

    public function headings(): array

    {

        return ['id',

        'name',

        'description',

        'price',

        'category',

        'supplier'];

    }

    public function startCell(): string

    {

        return 'C5';

    }

}

**sur ProductController**

use Maatwebsite\Excel\Facades\Excel;

use App\Exports\ProductExport;

….

  /\*\*

    \* @return \Illuminate\Support\Collection

    \*/

    public function export()

    {

        return Excel::download(new ProductExport, 'products.xlsx');

    }

**Sur routes/web.php**

Route::get('products-export', [ProductController::class, 'export'])->name('products.export');

**Sur views/products/index.blade.php**

…

    <a class="btn btn-warning float-end" href="{{ route('products.export') }}"><i class="fa fa-download"></i> Export Products Data</a>

…

Tester l’exportation

**Php artisan serve**

Importation  
  
**php artisan make:import ProductImport --model=Product**

**sur app/imports/ProductImport.php**

<?php

namespace App\Imports;

use App\Models\Product;

use App\Models\Category;

use App\Models\Supplier;

use Maatwebsite\Excel\Concerns\ToModel;

use Maatwebsite\Excel\Concerns\WithHeadingRow;

use Maatwebsite\Excel\Concerns\WithValidation;

use Illuminate\Support\Facades\DB;

class ProductImport implements ToModel, WithHeadingRow, WithValidation

{

    /\*\*

    \* @param array $row

    \*

    \* @return \Illuminate\Database\Eloquent\Model|null

    \*/

    public function model(array $row)

    {

        $product = Product::where('id','=',$row['id'])->first();

        if ($product)

        {

            return;

        }

        $category = Category::where('name','=',$row['category'])->first();

        if(!$category)

        {

            $category = Category::create(['name'=>$row['category']]);

        }

        $supplier = Supplier::where(DB::Raw("Concat(first\_name, ' ', last\_name)"),'=',$row['supplier'])->first();

        if(!$supplier)

        {

            $fullName = $row['supplier'];

            $parts = explode(' ', trim($fullName), 2);

            $firstName = $parts[0] ?? '';

            $lastName = $parts[1] ?? $parts[0]; // Si pas de nom de famille, utiliser le même que prénom

            $supplier = Supplier::create([

                'first\_name' => $firstName,

                'last\_name' => $lastName,

                'phone'=>' ',

            ]);

        }

        return new Product([

            'id' => $row['id'],

            'name' => $row['name'],

            'description'  => $row['description'],

            'price' =>$row['price'],

            'category\_id'=>$category->id,

            'supplier\_id'=>$supplier->id

        ]);

    }

     /\*\*

     \* Write code on Method

     \*

     \* @return response()

     \*/

    public function rules(): array

    {

        return [

            // 'name' => 'required|min:5|max:255',

            // 'description' => 'required|min:5',

            // 'price' => 'required',

            // 'supplier'=> 'required',

            // 'category'=> 'required'

        ];

    }

    public function headingRow(): int

    {

        return 5;

    }

}

**Sur ProductController**

use App\Imports\ProductImport;

….

  /\*\*

    \* @return \Illuminate\Support\Collection

    \*/

    public function import(Request $request)

    {

        Excel::import(new ProductImport, $request->file('file'));

        return back()->with('success', 'Products imported successfully.');

    }

**dans le modèle Products.php ajouter id au fillables**

…  
  protected $fillable = [

        'id',

        'name',

        'description',

        'price',

        'picture',

        'category\_id',

        'supplier\_id'

    ];   
…

**Sur routes/web.php**

Route::post('products-import', [ProductController::class, 'import'])->name('products.import');

**créer une vue pour la fenetre modale d’imporation dans views/products/partials/import-modal.blade.php**

<!-- Import Products Modal -->

<div class="modal fade" id="importProductModal" tabindex="-1" aria-labelledby="importProductModalLabel" aria-hidden="true">

    <div class="modal-dialog">

        <div class="modal-content">

            <div class="modal-header">

                <h5 class="modal-title" id="importProductModalLabel">Import Products</h5>

                <button type="button" class="btn-close" data-bs-dismiss="modal" aria-label="Close"></button>

            </div>

            <form action="{{ route('products.import') }}" method="POST" enctype="multipart/form-data" id="importProductForm">

                @csrf

                <div class="modal-body">

                    <div class="mb-3">

                        <label for="file" class="form-label">Select Excel File <span class="text-danger">\*</span></label>

                        <input type="file" name="file" id="file" class="form-control" required>

                        <div class="invalid-feedback"></div>

                    </div>

                    <div class="form-text">Please upload an Excel file with the correct product format.</div>

                </div>

                <div class="modal-footer">

                    <button type="button" class="btn btn-secondary" data-bs-dismiss="modal">Cancel</button>

                    <button type="submit" class="btn btn-success"><i class="fa fa-file"></i> Import</button>

                </div>

            </form>

        </div>

    </div>

</div>

@push('scripts')

<script>

$(document).ready(function() {

    $('#importProductForm').on('submit', function(e) {

        e.preventDefault();

        let form = $(this);

        let formData = new FormData(this);

        $.ajax({

            url: form.attr('action'),

            type: 'POST',

            data: formData,

            processData: false,

            contentType: false,

            success: function(response) {

                $('#importProductModal').modal('hide');

                window.location.reload();

            },

            error: function(xhr) {

                if (xhr.responseJSON && xhr.responseJSON.errors) {

                    let errors = xhr.responseJSON.errors;

                    Object.keys(errors).forEach(function(field) {

                        let input = form.find(`[name=${field}]`);

                        input.addClass('is-invalid');

                        input.siblings('.invalid-feedback').text(errors[field][0]);

                    });

                } else {

                    alert('An error occurred during import. Please try again.');

                }

            }

        });

    });

    $('#importProductModal').on('hidden.bs.modal', function() {

        let form = $('#importProductForm');

        form.trigger('reset');

        form.find('.is-invalid').removeClass('is-invalid');

        form.find('.invalid-feedback').empty();

    });

});

</script>

@endpush

**Sur views/products/index.blade.php**

…  <button type="button" class="btn btn-success" data-bs-toggle="modal"

                    data-bs-target="#importProductModal">

                    <i class="fa fa-file"></i> Import

                </button>…  
  
@include('products.partials.import-modal')

**tester l’importation en ajoutant de nouveaux produits dans le fichier exporté**

**php artisan serve**