



Mata Kuliah : Pemrograman Web Lanjut (PWL)  
Program Studi : D4 – Teknik Informatika / D4 – Sistem Informasi Bisnis  
Semester : 4 (empat) / 5 (lima)  
Pertemuan ke- : 8 (delapan)

## JOBSHEET 08

### File Import dan Export ke PDF dan Excel pada Laravel

Sesuai dengan **Studi Kasus PWL.pdf**.

Jadi project Laravel 10 kita masih sama dengan menggunakan repositori **PWL\_POS**.

*Project PWL\_POS* akan kita gunakan sampai pertemuan 12 nanti, sebagai project yang akan kita pelajari

#### A. File Upload (import data) pada Laravel

Mengunggah file merupakan salah satu fitur esensial yang sering kali dijumpai di berbagai proyek website. Fitur ini memberikan kemampuan bagi pengguna untuk memindahkan file dari perangkat komputer lokal mereka ke dalam lingkungan server aplikasi web. Proses ini melibatkan pengguna dalam memilih file dari sistem lokal mereka, seperti gambar, dokumen, atau media lainnya, yang kemudian diunggah melalui formulir yang disediakan di website. Setelah file tersebut berhasil diunggah, server akan menyimpan file tersebut di direktori tertentu yang telah ditentukan sebelumnya oleh pengembang. Penyimpanan ini dapat berada di server lokal, penyimpanan awan (*cloud storage*), atau bahkan dalam jaringan distribusi konten (CDN) untuk memastikan kinerja dan ketersediaan yang optimal. Dengan fitur unggah file ini, pengguna dapat memperkaya konten website secara dinamis, sementara pengembang dapat memastikan bahwa file yang diunggah dikelola dengan baik, aman, dan sesuai dengan kebijakan aplikasi.

Mengunggah file bukan hanya digunakan untuk menambahkan media atau dokumen ke sebuah website, tetapi juga memiliki peran penting dalam proses pengelolaan data, khususnya untuk *import* data ke database dalam aplikasi berbasis Laravel. Fitur ini memungkinkan



pengguna untuk mengunggah file berisi data dalam format seperti CSV atau Excel, yang kemudian diproses oleh aplikasi untuk dimasukkan ke dalam database.

Proses ini biasanya dimulai dengan pengguna memilih file yang berisi data dari komputer lokal mereka dan mengunggahnya ke server melalui formulir yang disediakan di aplikasi web. Setelah file berhasil diunggah, Laravel akan memproses file tersebut menggunakan paket seperti Maatwebsite Excel, yang dirancang khusus untuk menangani impor data dari file Excel atau CSV. Dalam jobsheet ini, kita akan mempelajari bagaimana cara mengunggah file yang digunakan untuk proses input data ke dalam database (import) menggunakan Laravel.

### Praktikum 1 – Implementasi Upload File untuk import data:

1. Kita buka database yang sudah kita buat sebelumnya, dan kita cek tabel `m_kategori` dan `m_barang`

| kategori_id | kategori_kode | kategori_nama   | created_at          | updated_at |
|-------------|---------------|-----------------|---------------------|------------|
| 1           | SBK           | Sembako         | 2024-08-16 02:57:53 | NULL       |
| 2           | SNK           | Makanan Ringan  | 2024-08-16 02:57:53 | NULL       |
| 3           | MND           | Peralatan Mandi | 2024-08-16 02:57:53 | NULL       |
| 4           | BAY           | Keperluan Bayi  | 2024-08-16 02:57:53 | NULL       |
| 5           | MNM           | Minuman         | 2024-08-16 02:57:53 | NULL       |

| barang_id | kategori_id | barang_kode | barang_nama           | harga_beli | harga_jual | created_at          | updated_at |
|-----------|-------------|-------------|-----------------------|------------|------------|---------------------|------------|
| 1         | 1           | SBK-001     | Beras Cap Jago (5kg)  | 65000      | 68000      | 2024-08-19 20:07:06 | NULL       |
| 2         | 1           | SBK-002     | Beras Bramo Cap Lele  | 80000      | 83000      | 2024-08-19 20:07:06 | NULL       |
| 3         | 2           | SNK-001     | Happy Toss            | 10500      | 11000      | 2024-08-19 20:07:06 | NULL       |
| 4         | 2           | SNK-002     | Oreo                  | 7200       | 7800       | 2024-08-19 20:07:06 | NULL       |
| 5         | 3           | MND-001     | Sabun Lifebouy        | 4250       | 5000       | 2024-08-19 20:07:06 | NULL       |
| 6         | 3           | MND-002     | Pasta Gigi Pepsoden   | 6750       | 7500       | 2024-08-19 20:07:06 | NULL       |
| 7         | 4           | BAY-001     | Susu SGM Coklat 900gr | 92500      | 95000      | 2024-08-19 20:07:06 | NULL       |
| 8         | 4           | BAY-002     | Popok Mamy Poko       | 56000      | 58000      | 2024-08-19 20:07:06 | NULL       |
| 9         | 5           | MNM-001     | Aqua 600ml            | 3700       | 4500       | 2024-08-19 20:07:06 | NULL       |
| 10        | 5           | MNM-002     | Le Mineral            | 3500       | 4000       | 2024-08-19 20:07:06 | NULL       |

|                          |  | kategori_id | kategori_kode | kategori_nama | created_at | updated_at |
|--------------------------|--|-------------|---------------|---------------|------------|------------|
| <input type="checkbox"/> |  | 1           | MKN           | Makanan       | NULL       | NULL       |
| <input type="checkbox"/> |  | 2           | MNM           | Minuman       | NULL       | NULL       |
| <input type="checkbox"/> |  | 3           | PKN           | Pakaian       | NULL       | NULL       |
| <input type="checkbox"/> |  | 4           | ATK           | Alat Tulis    | NULL       | NULL       |
| <input type="checkbox"/> |  | 5           | MIN           | Mainan        | NULL       | NULL       |



|                          |                      | barang_id | kategori_id | barang_kode | barang_nama | harga_beli | harga_jual | created_at | updated_at |
|--------------------------|----------------------|-----------|-------------|-------------|-------------|------------|------------|------------|------------|
| <input type="checkbox"/> | <a href="#">Edit</a> | 1         | 1           | MKN001      | Nasi Goreng | 10000      | 15000      | NULL       | NULL       |
| <input type="checkbox"/> | <a href="#">Edit</a> | 2         | 1           | MKN002      | Mie Goreng  | 5000       | 10000      | NULL       | NULL       |
| <input type="checkbox"/> | <a href="#">Edit</a> | 3         | 2           | MNM001      | Teh Botol   | 2000       | 4000       | NULL       | NULL       |
| <input type="checkbox"/> | <a href="#">Edit</a> | 4         | 2           | MNM002      | Aqua        | 1000       | 2000       | NULL       | NULL       |
| <input type="checkbox"/> | <a href="#">Edit</a> | 5         | 3           | PKN001      | Kemeja      | 50000      | 70000      | NULL       | NULL       |
| <input type="checkbox"/> | <a href="#">Edit</a> | 6         | 3           | PKN002      | Celana      | 70000      | 100000     | NULL       | NULL       |
| <input type="checkbox"/> | <a href="#">Edit</a> | 7         | 4           | ATK001      | Pensil      | 1000       | 2000       | NULL       | NULL       |
| <input type="checkbox"/> | <a href="#">Edit</a> | 8         | 4           | ATK002      | Buku Tulis  | 5000       | 10000      | NULL       | NULL       |
| <input type="checkbox"/> | <a href="#">Edit</a> | 9         | 5           | MIN001      | Lego        | 20000      | 25000      | NULL       | NULL       |
| <input type="checkbox"/> | <a href="#">Edit</a> | 10        | 5           | MIN002      | Boneka      | 30000      | 40000      | NULL       | NULL       |

2. Disini kita akan mencoba untuk memasukkan data ke dalam sistem kita secara banyak. Kita bisa menggunakan file excel untuk mencoba memasukkan data barang ke dalam sistem kita. Kita buat template file excel yang akan kita gunakan untuk import data barang.

| 1 | kategori_id | barang_kode | barang_nama            | harga_beli | harga_jual |
|---|-------------|-------------|------------------------|------------|------------|
| 2 | 1           | SBK-003     | Telur Omega (10 butir) | 22000      | 25000      |
| 3 | 2           | SNK-003     | Sari Roti              | 11500      | 12500      |
| 4 | 3           | MND-003     | Shampo Pantene         | 17500      | 18500      |
| 5 | 4           | BAY-003     | Baju Bayi 2th          | 89000      | 92500      |
| 6 | 5           | MNM-003     | Cleo 600ml             | 3750       | 4300       |
| 7 |             |             |                        |            |            |

Contoh kita ingin mengimport 5 data barang sekaligus. Kita simpan ke file excel dengan nama **template\_barang.xlsx**, dan kita simpan pada folder **public** di project web kita.

3. Selanjutnya kita modifikasi view pada **barang/index.blade.php** untuk bisa menambahkan tombol menambah form untuk upload untuk import data barang



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

@section('content')


### Daftar barang



Import Barang
Tambah Data
Tambah Data \(Ajax\)



Filter



@foreach($kategori as $l)
    <option value="{{ $l->kategori_id }}>{{ $l->kategori_nama }}
@endforeach



Kategori Barang



@if(session('success'))


{{ session('success') }}


@endif
@if(session('error'))


{{ session('error') }}


@endif


```



```
<table class="table table-bordered table-sm table-striped table-hover"
id="table-barang">
    <thead>
        <tr><th>No</th><th>Kode Barang</th><th>Kode Barang</th><th>Harga
Beli</th><th>Harga Jual</th><th>Kategori</th><th>Aksi</th></tr>
    </thead>
    <tbody></tbody>
</table>
</div>
<div id="myModal" class="modal fade animate shake" tabindex="-1" data-backdrop="static"
data-keyboard="false" data-width="75%"></div>

@endsection

@push('js')
<script>
    function modalAction(url = ''){
        $('#myModal').load(url, function(){
            $('#myModal').modal('show');
        });
    }

var tableBarang;
$(document).ready(function(){
    tableBarang = $('#table-barang').DataTable({
        processing: true,
        serverSide: true,
        ajax: {
            "url": "{{ url('barang/list') }}",
            "dataType": "json",
            "type": "POST",
            "data": function (d) {
                d.filter_kategori = $('.filter_kategori').val();
            }
        },
        columns: [
            {data: "No_Urut",
            className: "text-center",
            width: "5%",
            orderable: false,
            searchable: false
            },{data: "barang_kode",
            className: "",
            width: "10%",
            orderable: true,
            searchable: true
            },{data: "barang_nama",
            className: "",
            width: "37%",
            orderable: true,
            searchable: true
            },{data: "harga_beli",
            className: "",
            width: "10%",
            orderable: true,
            searchable: false,
            render: function(data, type, row){
                return new Intl.NumberFormat('id-ID').format(data);
            }
            },{data: "harga_jual",
            className: "",
            width: "10%",
            orderable: true,
            searchable: false
            }
        ]
    });
});
```



```
orderable: true,
searchable: false,
render: function(data, type, row){
    return new Intl.NumberFormat('id-ID').format(data);
}
},{
    data: "kategori.kategori_nama",
    className: "",
    width: "14%",
    orderable: true,
    searchable: false
},{
    data: "aksi",
    className: "text-center",
    width: "14%",
    orderable: false,
    searchable: false
}
]
});

$('#table-barang_filter input').unbind().bind().on('keyup', function(e){
    if(e.keyCode == 13){ // enter key
        tableBarang.search(this.value).draw();
    }
});

$('.filter_kategori').change(function(){
    tableBarang.draw();
});
});
</script>
@endpush
```

4. Selanjutnya kita buat view untuk form upload/import file excel dan download file

`template_barang.xlsx`. Kita beri nama file dengan nama `barang/import.blade.php`

```
<form action="{{ url('/barang/import_ajax') }}" method="POST" id="form-import"
enctype="multipart/form-data">
    @csrf
    <div id="modal-master" class="modal-dialog modal-lg" role="document">
        <div class="modal-content">
            <div class="modal-header">
                <h5 class="modal-title" id="exampleModalLabel">Import Data Barang</h5>
                <button type="button" class="close" data-dismiss="modal" aria-
label="Close"><span aria-hidden="true">&times;</span></button>
            </div>
            <div class="modal-body">
                <div class="form-group">
                    <label>Download Template</label>
                    <a href="{{ asset('template_barang.xlsx') }}" class="btn btn-info btn-
sm" download><i class="fa fa-file-excel"></i>Download</a>
                    <small id="error-kategori_id" class="error-text form-text text-
danger"></small>
                </div>
                <div class="form-group">
                    <label>Pilih File</label>
                    <input type="file" name="file_barang" id="file_barang" class="form-
control" required>
                    <small id="error-file_barang" class="error-text form-text text-
danger"></small>
                </div>
            </div>
            <div class="modal-footer">
```



```
        <button type="button" data-dismiss="modal" class="btn btn-warning">Batal</button>
        <button type="submit" class="btn btn-primary">Upload</button>
    </div>
</div>
</div>
</form>
<script>
$(document).ready(function() {
    $("#form-import").validate({
        rules: {
            file_barang: {required: true, extension: "xlsx"},
        },
        submitHandler: function(form) {
            var formData = new FormData(form); // Jadikan form ke FormData untuk
menghandle file

            $.ajax({
                url: form.action,
                type: form.method,
                data: formData, // Data yang dikirim berupa FormData
                processData: false, // setting processData dan contentType ke false,
untuk menghandle file
                contentType: false,
                success: function(response) {
                    if(response.status){ // jika sukses
                        $('#myModal').modal('hide');
                        Swal.fire({
                            icon: 'success',
                            title: 'Berhasil',
                            text: response.message
                        });
                        tableBarang.ajax.reload(); // reload datatable
                    }else{ // jika error
                        $('.error-text').text('');
                        $.each(response.msgField, function(prefix, val) {
                            $('#error-'+prefix).text(val[0]);
                        });
                        Swal.fire({
                            icon: 'error',
                            title: 'Terjadi Kesalahan',
                            text: response.message
                        });
                    }
                }
            });
            return false;
        },
        errorElement: 'span',
        errorPlacement: function (error, element) {
            error.addClass('invalid-feedback');
            element.closest('.form-group').append(error);
        },
        highlight: function (element, errorClass, validClass) {
            $(element).addClass('is-invalid');
        },
        unhighlight: function (element, errorClass, validClass) {
            $(element).removeClass('is-invalid');
        }
    });
});
</script>
```

5. Kemudian kita modifikasi `route/web.php` untuk mengakomodir proses upload file pada menu barang



```
Route::get('/barang',[BarangController::class,'index']);  
Route::post('/barang/list',[BarangController::class,'list']);  
Route::get('/barang/create_ajax',[BarangController::class,'create_ajax']); // ajax form create  
Route::post('/barang_ajax',[BarangController::class,'store_ajax']); // ajax store  
Route::get('/barang/{id}/edit_ajax',[BarangController::class,'edit_ajax']); // ajax form edit  
Route::put('/barang/{id}/update_ajax',[BarangController::class,'update_ajax']); // ajax update  
Route::get('/barang/{id}/delete_ajax',[BarangController::class,'confirm_ajax']); // ajax form confirm  
Route::delete('/barang/{id}/delete_ajax',[BarangController::class,'delete_ajax']); // ajax delete  
Route::get('/barang/import',[BarangController::class,'import']); // ajax form upload excel  
Route::post('/barang/import_ajax',[BarangController::class,'import_ajax']); // ajax import excel
```

6. Untuk bisa membaca/menulis file excel, maka kita butuhkan library untuk membaca/menulis file excel. Jadi kita bisa memakai library [phoffice/phpspreadsheet](#). Kita ketikkan perintah di terminal/CMD

```
composer require phoffice/phpspreadsheet
```

```
PS C:\laragon\www\PML_2025\Winggu8\PML_POS> composer require phoffice/phpspreadsheet  
.composer.json has been updated  
Running composer update phoffice/phpspreadsheet  
Loading composer repositories with package information  
Updating dependencies  
Lock file operations: 5 installs, 0 updates, 0 removals  
- Locking composer/pcre (3.3.2)  
- Locking maennchen/zipstream-php (3.1.1)  
- Locking markbaker/complex (3.0.2)  
- Locking markbaker/matrix (3.0.1)  
- Locking phoffice/phpspreadsheet (4.1.0)  
Writing lock file  
Installing dependencies from lock file (including require-dev)  
Package operations: 5 installs, 0 updates, 0 removals  
- Downloading markbaker/matrix (3.0.1)  
- Downloading markbaker/complex (3.0.2)  
- Downloading maennchen/zipstream-php (3.1.1)  
- Downloading composer/pcre (3.3.2)  
- Downloading phoffice/phpspreadsheet (4.1.0)  
- Installing markbaker/matrix (3.0.1): Extracting archive  
- Installing markbaker/complex (3.0.2): Extracting archive  
- Installing maennchen/zipstream-php (3.1.1): Extracting archive  
- Installing composer/pcre (3.3.2): Extracting archive  
- Installing phoffice/phpspreadsheet (4.1.0): Extracting archive  
4 package suggestions were added by new dependencies, use 'composer suggest' to see details.  
Generating optimized autoload files  
> Illuminate\Foundation\ComposerScripts::postAutoloadDump  
> @php artisan package:discover --ansi  
INFO Discovering packages.  
laravel/sail ..... DONE  
laravel/sanctum ..... DONE  
laravel/tinker ..... DONE  
nesbot/carbon ..... DONE  
nunomaduro/collision ..... DONE  
nunomaduro/termwind ..... DONE  
spatie/laravel-ignition ..... DONE  
yajra/laravel-datatables-oracle ..... DONE  
  
84 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].  
  
Found 1 security vulnerability advisory affecting 1 package.  
Run "composer audit" for a full list of advisories.  
Using version <4.1 for phoffice/phpspreadsheet.
```

7. Selanjutnya kita modifikasi file [BarangController.php](#) untuk memproses data



```
<?php
namespace App\Http\Controllers;

use App\Models\LevelModel;
use App\Models\BarangModel;
use App\Models\KategoriModel;
use Illuminate\Http\Request;
use Illuminate\Support\Facades\Hash;
use Illuminate\Support\Facades\Validator;
use PhpOffice\PhpSpreadsheet\IOFactory;
use Yajra\DataTables\Facades\DataTables;

class BarangController extends Controller
{

    public function index (){
        $activeMenu = 'barang';
        $breadcrumb = (object) [
            'title' => 'Data Barang',
            'list' => ['Home', 'Barang']
        ];
        $kategori = KategoriModel::select('kategori_id', 'kategori_nama')->get();
        return view('barang.index', [
            'activeMenu' => $activeMenu,
            'breadcrumb' => $breadcrumb,
            'kategori' => $kategori
        ]);
    }

    public function list(Request $request)
    {
        $barang = BarangModel::select('barang_id', 'barang_kode', 'barang_nama',
        'harga_beli', 'harga_jual', 'kategori_id')->with('kategori');

        $kategori_id = $request->input('filter_kategori');
        if(!empty($kategori_id)){
            $barang->where('kategori_id', $kategori_id);
        }

        return DataTables::of($barang)
            ->addIndexColumn()
            ->addColumn('aksi', function ($barang) { // menambahkan kolom aksi
                return 'Edit Delete';
            });
    }
}
```



```
/*$btn = '<a href="'.url('/barang/' . $barang->barang_id).'" class="btn btn-
info btn-sm">Detail</a> ';
    $btn .= '<a href="'.url('/barang/' . $barang->barang_id .
'/edit').'" class="btn btn-warning btn-sm">Edit</a> ';
    $btn .= '<form class="d-inline-block" method="POST" action="'.
url('/barang/' . $barang->barang_id).'">
        . csrf_field() . method_field('DELETE') .
        '<button type="submit" class="btn btn-danger btn-sm" onclick="return
confirm(\\'Apakah Kita yakin menghapus data ini?\')";>Hapus</button></form>';
$btn = '<button onclick="modalAction('.url('/barang/' . $barang->barang_id
. '/show_ajax').'\\')" class="btn btn-info btn-sm">Detail</button> ';
    $btn .= '<button onclick="modalAction('.url('/barang/' . $barang-
>barang_id . '/edit_ajax').'\\')" class="btn btn-warning btn-sm">Edit</button> ';
    $btn .= '<button onclick="modalAction('.url('/barang/' . $barang-
>barang_id . '/delete_ajax').'\\')" class="btn btn-danger btn-sm">Hapus</button> ';
    return $btn;
}
->rawColumns(['aksi']) // ada teks html
->make(true);
}

public function create_ajax()
{
    $kategori = KategoriModel::select('kategori_id', 'kategori_nama')->get();
    return view('barang.create_ajax')->with('kategori', $kategori);
}

public function store_ajax(Request $request)
{
    if($request->ajax() || $request->wantsJson()){
        $rules = [
            'kategori_id' => ['required', 'integer', 'exists:m_kategori,kategori_id'],
            'barang_kode' => ['required', 'min:3', 'max:20',
'unique:m_barang,barang_kode'],
            'barang_nama' => ['required', 'string', 'max:100'],
            'harga_beli' => ['required', 'numeric'],
            'harga_jual' => ['required', 'numeric'],
        ];
        $validator = Validator::make($request->all(), $rules);
        if($validator->fails()){
            return response()->json([
                'status' => false,
                'message' => 'Validasi Gagal',
                'msgField' => $validator->errors()
            ]);
        }
        BarangModel::create($request->all());
        return response()->json([
            'status' => true,
            'message' => 'Data berhasil disimpan'
        ]);
    }
    redirect('/');
}

public function edit_ajax($id)
{
    $barang = BarangModel::find($id);
    $level = LevelModel::select('level_id', 'level_nama')->get();
    return view('barang.edit_ajax', ['barang' => $barang, 'level' => $level]);
}

public function update_ajax(Request $request, $id)
{
    // cek apakah request dari ajax
}
```



```
if ($request->ajax() || $request->wantsJson()) {
    $rules = [
        'kategori_id' => ['required', 'integer', 'exists:m_kategori,kategori_id'],
        'barang_kode' => ['required', 'min:3', 'max:20'],
        'unique:m_barang,barang_kode, . . $id .,barang_id'],
        'barang_nama' => ['required', 'string', 'max:100'],
        'harga_beli' => ['required', 'numeric'],
        'harga_jual' => ['required', 'numeric'],
    ];
}

// use Illuminate\Support\Facades\Validator;
$validator = Validator::make($request->all(), $rules);
if ($validator->fails()) {
    return response()->json([
        'status' => false, // respon json, true: berhasil, false: gagal
        'message' => 'Validasi gagal.',
        'msgField' => $validator->errors() // menunjukkan field mana yang error
    ]);
}

$check = BarangModel::find($id);
if ($check) {
    $check->update($request->all());
    return response()->json([
        'status' => true,
        'message' => 'Data berhasil diupdate'
    ]);
} else{
    return response()->json([
        'status' => false,
        'message' => 'Data tidak ditemukan'
    ]);
}
return redirect('/');
}

public function confirm_ajax($id)
{
    $barang = BarangModel::find($id);
    return view('barang.confirm_ajax', ['barang' => $barang]);
}

public function delete_ajax(Request $request, $id)
{
    if($request->ajax() || $request->wantsJson()){
        $barang = BarangModel::find($id);
        if($barang){ // jika sudah ditemukan
            $barang->delete(); // barang di hapus
            return response()->json([
                'status' => true,
                'message' => 'Data berhasil dihapus'
            ]);
        }else{
            return response()->json([
                'status' => false,
                'message' => 'Data tidak ditemukan'
            ]);
        }
    }
    return redirect('/');
}

public function import()
{
    return view('barang.import');
}
```



```
public function import_ajax(Request $request)
{
    if($request->ajax() || $request->wantsJson()){
        $rules = [
            // validasi file harus xls atauxlsx, max 1MB
            'file_barang' => ['required', 'mimes:xlsx', 'max:1024']
        ];

        $validator = Validator::make($request->all(), $rules);
        if($validator->fails()){
            return response()->json([
                'status' => false,
                'message' => 'Validasi Gagal',
                'msgField' => $validator->errors()
            ]);
        }

        $file = $request->file('file_barang'); // ambil file dari request

        $reader = IOFactory::createReader('Xlsx'); // load reader file excel
        $reader->setReadDataOnly(true); // hanya membaca data
        $spreadsheet = $reader->load($file->getRealPath()); // load file excel
        $sheet = $spreadsheet->getActiveSheet(); // ambil sheet yang aktif

        $data = $sheet->toArray(null, false, true, true); // ambil data excel

        $insert = [];
        if(count($data) > 1){ // jika data lebih dari 1 baris
            foreach ($data as $baris => $value) {
                if($baris > 1){ // baris ke 1 adalah header, maka lewati
                    $insert[] = [
                        'kategori_id' => $value['A'],
                        'barang_kode' => $value['B'],
                        'barang_nama' => $value['C'],
                        'harga_beli' => $value['D'],
                        'harga_jual' => $value['E'],
                        'created_at' => now(),
                    ];
                }
            }

            if(count($insert) > 0){
                // insert data ke database, jika data sudah ada, maka diabaikan
                BarangModel::insertOrIgnore($insert);
            }

            return response()->json([
                'status' => true,
                'message' => 'Data berhasil diimport'
            ]);
        }else{
            return response()->json([
                'status' => false,
                'message' => 'Tidak ada data yang diimport'
            ]);
        }
    }
    return redirect('/');
}
```

8. Sekarang kita coba jalankan browser dan klik tombol import pada menu Barang



Import Data Barang

Download Template [Download](#)

Pilih File

No file selected.

9. Kita upload template data yang sudah kita siapkan, dan amati apa yang terjadi.

### Tugas 1 – Implementasi File Upload untuk Import Data:

1. Silahkan implementasikan praktikum 1 pada project kalian masing-masing untuk semua menu
2. Amati dan jelaskan tiap tahapan yang kalian kerjakan, dan jabarkan dalam laporan
  - Data Barang

| No. | Kode Barang | Nama Barang | Harga Beli | Harga Jual | Kategori   | Aksi   |
|-----|-------------|-------------|------------|------------|------------|--|
| 1   | MKN001      | Nasi Goreng | 10.000     | 15.000     | Makanan    | <input type="button" value="Detail"/> <input type="button" value="Edit"/> <input type="button" value="Hapus"/> |
| 2   | MKN002      | Mie Goreng  | 5.000      | 10.000     | Makanan    | <input type="button" value="Detail"/> <input type="button" value="Edit"/> <input type="button" value="Hapus"/> |
| 3   | MNM001      | Teh Botol   | 2.000      | 4.000      | Minuman    | <input type="button" value="Detail"/> <input type="button" value="Edit"/> <input type="button" value="Hapus"/> |
| 4   | MNM002      | Aqua        | 1.000      | 2.000      | Minuman    | <input type="button" value="Detail"/> <input type="button" value="Edit"/> <input type="button" value="Hapus"/> |
| 5   | PKN001      | Kemeja      | 50.000     | 70.000     | Pakaian    | <input type="button" value="Detail"/> <input type="button" value="Edit"/> <input type="button" value="Hapus"/> |
| 6   | PKN002      | Celana      | 70.000     | 100.000    | Pakaian    | <input type="button" value="Detail"/> <input type="button" value="Edit"/> <input type="button" value="Hapus"/> |
| 7   | ATK001      | Pensil      | 1.000      | 2.000      | Alat Tulis | <input type="button" value="Detail"/> <input type="button" value="Edit"/> <input type="button" value="Hapus"/> |
| 8   | ATK002      | Buku Tulis  | 5.000      | 10.000     | Alat Tulis | <input type="button" value="Detail"/> <input type="button" value="Edit"/> <input type="button" value="Hapus"/> |
| 9   | MIN001      | Lego        | 20.000     | 25.000     | Mainan     | <input type="button" value="Detail"/> <input type="button" value="Edit"/> <input type="button" value="Hapus"/> |
| 10  | MIN002      | Boneka      | 30.000     | 40.000     | Mainan     | <input type="button" value="Detail"/> <input type="button" value="Edit"/> <input type="button" value="Hapus"/> |



The screenshots illustrate the process of importing product data into a database. The first two screenshots show the 'Import Data Barang' dialog box, where a user has selected a template file ('template\_barang.xlsx') and is about to upload it. The third screenshot shows a success message ('Berhasil') indicating that the data has been imported successfully.

**Import Data Barang**

Pilih File

Choose File No file chosen

Upload

**Data Barang**

| No. | Kode Barang | Nama Barang | Harga Beli | Harga Jual | Kategori   | Aksi                    |
|-----|-------------|-------------|------------|------------|------------|-------------------------|
| 1   | MKN001      | Nasi Goreng | 10.000     | 15.000     | Makanan    | [Detail] [Edit] [Hapus] |
| 2   | MKN002      | Mie Goreng  | 5.000      | 10.000     | Makanan    | [Detail] [Edit] [Hapus] |
| 3   | MNM001      | Teh Botol   | 2.000      | 4.000      | Minuman    | [Detail] [Edit] [Hapus] |
| 4   | MNM002      | Aqua        | 1.000      | 2.000      | Minuman    | [Detail] [Edit] [Hapus] |
| 5   | PKN001      | Kemeja      | 50.000     | 70.000     | Pakaian    | [Detail] [Edit] [Hapus] |
| 6   | PKN002      | Celana      | 70.000     | 100.000    | Pakaian    | [Detail] [Edit] [Hapus] |
| 7   | ATK001      | Pensil      | 1.000      | 2.000      | Alat Tulis | [Detail] [Edit] [Hapus] |
| 8   | ATK002      | Buku Tulis  | 5.000      | 10.000     | Alat Tulis | [Detail] [Edit] [Hapus] |
| 9   | MIN001      | Lego        | 20.000     | 25.000     | Mainan     | [Detail] [Edit] [Hapus] |
| 10  | MIN002      | Boneka      | 30.000     | 40.000     | Mainan     | [Detail] [Edit] [Hapus] |

**Import Data Barang**

Pilih File

Choose File template\_barang.xlsx

Upload

**Data Barang**

| No. | Kode Barang | Nama Barang | Harga Beli | Harga Jual | Kategori   | Aksi                    |
|-----|-------------|-------------|------------|------------|------------|-------------------------|
| 1   | MKN001      | Nasi Goreng | 10.000     | 15.000     | Makanan    | [Detail] [Edit] [Hapus] |
| 2   | MKN002      | Mie Goreng  | 5.000      | 10.000     | Makanan    | [Detail] [Edit] [Hapus] |
| 3   | MNM001      | Teh Botol   | 2.000      | 4.000      | Minuman    | [Detail] [Edit] [Hapus] |
| 4   | MNM002      | Aqua        | 1.000      | 2.000      | Minuman    | [Detail] [Edit] [Hapus] |
| 5   | PKN001      | Kemeja      | 50.000     | 70.000     | Pakaian    | [Detail] [Edit] [Hapus] |
| 6   | PKN002      | Celana      | 70.000     | 100.000    | Pakaian    | [Detail] [Edit] [Hapus] |
| 7   | ATK001      | Pensil      | 1.000      | 2.000      | Alat Tulis | [Detail] [Edit] [Hapus] |
| 8   | ATK002      | Buku Tulis  | 5.000      | 10.000     | Alat Tulis | [Detail] [Edit] [Hapus] |
| 9   | MIN001      | Lego        | 20.000     | 25.000     | Mainan     | [Detail] [Edit] [Hapus] |
| 10  | MIN002      | Boneka      | 30.000     | 40.000     | Mainan     | [Detail] [Edit] [Hapus] |

**Data Barang**

Daftar barang

Import Barang Tambah Data Tambah Data Ajax

Search:

Berhasil

Data berhasil diimport

OK

| No. | Kode Barang | Nama Barang | Harga Beli | Harga Jual | Kategori   | Aksi                    |
|-----|-------------|-------------|------------|------------|------------|-------------------------|
| 1   | MKN001      | Nasi Goreng | 10.000     | 15.000     | Makanan    | [Detail] [Edit] [Hapus] |
| 2   | MKN002      | Mie Goreng  | 5.000      | 10.000     | Makanan    | [Detail] [Edit] [Hapus] |
| 3   | MNM001      | Teh Botol   | 2.000      | 4.000      | Minuman    | [Detail] [Edit] [Hapus] |
| 4   | MNM002      | Aqua        | 1.000      | 2.000      | Minuman    | [Detail] [Edit] [Hapus] |
| 5   | PKN001      | Kemeja      | 50.000     | 70.000     | Pakaian    | [Detail] [Edit] [Hapus] |
| 6   | PKN002      | Celana      | 70.000     | 100.000    | Pakaian    | [Detail] [Edit] [Hapus] |
| 7   | ATK001      | Pensil      | 1.000      | 2.000      | Alat Tulis | [Detail] [Edit] [Hapus] |
| 8   | ATK002      | Buku Tulis  | 5.000      | 10.000     | Alat Tulis | [Detail] [Edit] [Hapus] |
| 9   | MIN001      | Lego        | 20.000     | 25.000     | Mainan     | [Detail] [Edit] [Hapus] |
| 10  | MIN002      | Boneka      | 30.000     | 40.000     | Mainan     | [Detail] [Edit] [Hapus] |



A screenshot of a web browser displaying a table of item data. The table has columns: No., Kode Barang, Nama Barang, Harga Beli, Harga Jual, Kategori, and Aksi. The data includes various items like Nasi Goreng, Mie Goreng, Teh Botol, etc., categorized into Makanan, Minuman, Pakaiian, Alat Tulis, Mainan, and Rendang.

| No. | Kode Barang | Nama Barang   | Harga Beli | Harga Jual | Kategori   | Aksi                    |
|-----|-------------|---------------|------------|------------|------------|-------------------------|
| 1   | MKN001      | Nasi Goreng   | 10.000     | 15.000     | Makanan    | [Detail] [Edit] [Hapus] |
| 2   | MKN002      | Mie Goreng    | 5.000      | 10.000     | Makanan    | [Detail] [Edit] [Hapus] |
| 3   | MNM001      | Teh Botol     | 2.000      | 4.000      | Minuman    | [Detail] [Edit] [Hapus] |
| 4   | MNM002      | Aqua          | 1.000      | 2.000      | Minuman    | [Detail] [Edit] [Hapus] |
| 5   | PKN001      | Kemeja        | 50.000     | 70.000     | Pakaian    | [Detail] [Edit] [Hapus] |
| 6   | PKN002      | Celana        | 70.000     | 100.000    | Pakaian    | [Detail] [Edit] [Hapus] |
| 7   | ATK001      | Pensil        | 1.000      | 2.000      | Alat Tulis | [Detail] [Edit] [Hapus] |
| 8   | ATK002      | Buku Tulis    | 5.000      | 10.000     | Alat Tulis | [Detail] [Edit] [Hapus] |
| 9   | MIN001      | Lego          | 20.000     | 25.000     | Mainan     | [Detail] [Edit] [Hapus] |
| 10  | MIN002      | Boneka        | 30.000     | 40.000     | Mainan     | [Detail] [Edit] [Hapus] |
| 11  | MKN003      | Rendang       | 5.000      | 7.000      | Makanan    | [Detail] [Edit] [Hapus] |
| 12  | MNM003      | Fanta 250ml   | 3.500      | 4.500      | Minuman    | [Detail] [Edit] [Hapus] |
| 13  | PKN003      | Kaos Polo     | 65.000     | 80.000     | Pakaian    | [Detail] [Edit] [Hapus] |
| 14  | ATK003      | Penghapus     | 500        | 1.000      | Alat Tulis | [Detail] [Edit] [Hapus] |
| 15  | MIN003      | Action Figure | 150.000    | 170.000    | Mainan     | [Detail] [Edit] [Hapus] |

## • Kategori Barang

A screenshot of a web browser displaying a table of category data. The table has columns: No., Kode Kategori, Nama Kategori, and Aksi. The data includes categories like Makanan, Minuman, Pakaiian, Alat Tulis, and Mainan.

| No. | Kode Kategori | Nama Kategori | Aksi                    |
|-----|---------------|---------------|-------------------------|
| 1   | MKN           | Makanan       | [Detail] [Edit] [Hapus] |
| 2   | MNM           | Minuman       | [Detail] [Edit] [Hapus] |
| 3   | PKN           | Pakaian       | [Detail] [Edit] [Hapus] |
| 4   | ATK           | Alat Tulis    | [Detail] [Edit] [Hapus] |
| 5   | MIN           | Mainan        | [Detail] [Edit] [Hapus] |

A screenshot of a web browser displaying a modal dialog titled "Import Data Kategori". It shows a file input field with the placeholder "Choose File" and a message "No file chosen". Below the dialog is a table of category data, identical to the one in the previous screenshot.



The screenshots illustrate the process of importing category data into a system. The first screenshot shows a modal dialog for 'Import Data Kategori' with a 'Choose File' input field containing 'template\_kategori.xlsx'. The second screenshot shows a success message: 'Berhasil' (Successful) with 'Data berhasil diimport' (Data imported successfully) and an 'OK' button. The third screenshot shows the 'Daftar Kategori' page with the imported data:

| No | Kode Kategori | Nama Kategori |
|----|---------------|---------------|
| 1  | MKN           | Makanan       |
| 2  | MNM           | Minuman       |
| 3  | PKN           | Pakaian       |
| 4  | ATK           | Alat Tulis    |
| 5  | MIN           | Mainan        |
| 6  | CML           | Camilan       |

- Data level



The screenshots illustrate the process of importing data into the system. The first screenshot shows the main 'Daftar Level' page with three entries: ADM (Administrator), MNG (Manager), and STF (Staff/Kasir). The second screenshot shows a modal dialog for 'Import Data Level' with a 'Choose File' button. The third screenshot shows the same dialog with the file 'template\_level.xlsx' selected.

| No | Kode Level | Nama Level    |
|----|------------|---------------|
| 1  | ADM        | Administrator |
| 2  | MNG        | Manager       |
| 3  | STF        | Staff/Kasir   |



The screenshot shows a list of levels imported successfully:

| No | Kode Level | Nama Level    |
|----|------------|---------------|
| 1  | ADM        | Administrator |
| 2  | MNG        | Manager       |
| 3  | STF        | Staff/Kasir   |
| 4  | CTM        | Customer      |

The screenshot shows the list of levels:

| No | Kode Level | Nama Level    |
|----|------------|---------------|
| 1  | ADM        | Administrator |
| 2  | MNG        | Manager       |
| 3  | STF        | Staff/Kasir   |
| 4  | CTM        | Customer      |

- Data User

The screenshot shows the list of users:

| No | 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  | admin2   | Admin2        | Administrator  | [Detail, Edit, Hapus] |
| 5  | staff2   | Kasir 2       | Staff/Kasir    | [Detail, Edit, Hapus] |



Screenshot of the PWL - Starter Code application showing the 'Import Data User' feature.

The application interface includes a sidebar with navigation links: Dashboard, Data Pengguna, Level User, Data User (highlighted in blue), Data Barang, Kategori Barang, Data Barang, Data Supplier, Data Suplier, Data Transaksi, Stok Barang, and Transaksi Penjualan.

The main content area displays a table titled 'Daftar User' with columns: No, Username, Nama, Level Pengguna, and Aksi. The data shows 5 entries:

| No | 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  | admin2   | Admin2        | Administrator  | [Detail, Edit, Hapus] |
| 5  | staff2   | Kasir 2       | Staff/Kasir    | [Detail, Edit, Hapus] |

An 'Import Data User' modal window is open, containing a 'Download Template' button, a 'Pilih File' input field with 'Choose File No file chosen', and 'Upload' and 'Batal' buttons.

Below the table, a message says 'Showing 1 to 5 of 5 entries'.

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Version 3.2.0

Three screenshots show the process of importing user data:

- Screenshot 1: The 'Pilih File' input field is empty, showing 'Choose File No file chosen'.
- Screenshot 2: The 'Pilih File' input field contains 'template\_user.xlsx'.
- Screenshot 3: A success message 'Berhasil' (Successful) is displayed with 'Data berhasil diimport' (Data imported successfully) and an 'OK' button.



| No | 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  | admin2    | Admin2        | Administrator  | [Detail] [Edit] [Hapus] |
| 5  | staff2    | Kasir 2       | Staff/Kasir    | [Detail] [Edit] [Hapus] |
| 6  | customer1 | Customer 1    | Customer       | [Detail] [Edit] [Hapus] |
| 7  | customer2 | Customer 2    | Customer       | [Detail] [Edit] [Hapus] |

- Data Supplier

| No | Kode Supplier | Nama Supplier | Aksi                    |
|----|---------------|---------------|-------------------------|
| 1  | S001          | PT. ABC       | [Detail] [Edit] [Hapus] |
| 2  | S002          | PT. DEF       | [Detail] [Edit] [Hapus] |
| 3  | S003          | PT. GHI       | [Detail] [Edit] [Hapus] |
| 4  | S004          | PT. JKL       | [Detail] [Edit] [Hapus] |
| 5  | S005          | PT. MNO       | [Detail] [Edit] [Hapus] |
| 6  | S006          | PT. PQR       | [Detail] [Edit] [Hapus] |
| 7  | S007          | PT. STU       | [Detail] [Edit] [Hapus] |
| 8  | S008          | PT. VWX       | [Detail] [Edit] [Hapus] |
| 9  | S009          | PT. YZA       | [Detail] [Edit] [Hapus] |
| 10 | S010          | PT. BCD       | [Detail] [Edit] [Hapus] |

Import Data Supplier

Download Template [Download](#)

Pilih File

Choose File No file chosen

[Batal] [Upload]



The screenshots show a web-based application interface for managing suppliers. The left sidebar includes links for Dashboard, Data Pengguna, Level User, Data User, Data Barang, Kategori Barang, Data Supplier, Data Transaksi, Stok Barang, and Transaksi Penjualan. The main area shows a table of existing suppliers and a modal dialog for importing new supplier data.

**Screenshot 1: Import Data Supplier**  
A modal window titled "Import Data Supplier" is open. It contains a "Download Template" button and a "Pilih File" input field where "template\_supplier.xlsx" is selected. Below the input field are "Batal" and "Upload" buttons.

**Screenshot 2: Confirmation Message**  
A modal window titled "Berhasil" displays the message "Data berhasil diimport". An "OK" button is at the bottom.

**Screenshot 3: Updated Supplier List**  
The main table now shows 12 entries, including the newly imported supplier (S011, PT. EFG). The table columns are No, Kode Supplier, Nama Supplier, and Aksi (Detail, Edit, Hapus).

3. Submit kode untuk implementasi prakktikum 1 pada repository github kalian.



## B. Export Excel di Laravel

Fitur export ke Excel pada Laravel merupakan alat yang sangat berguna dalam aplikasi web yang membutuhkan pengolahan dan penyajian data secara profesional. Fitur ini memungkinkan pengguna untuk mengekspor data dari database atau hasil pemrosesan lainnya ke dalam format file Excel (.xlsx atau .xls) yang bisa diunduh dan digunakan untuk berbagai tujuan, seperti pelaporan, analisis data, atau penyimpanan arsip.

Fitur export ke Excel di Laravel memungkinkan kita untuk menyediakan data dalam format yang lebih fleksibel dan mudah digunakan oleh pengguna akhir.

### Praktikum 2 – Export Data ke Excel

Kita akan menerapkan export data dari database ke file excel pada project Laravel dengan menggunakan library yang sama dengan praktikum 1. Langkah-langkah yang kita kerjakan sebagai berikut:

1. Kita modifikasi `barang/index.blade.php` dengan mengganti kode berikut

```
<a href="{{ url('/barang/create') }}" class="btn btn-primary">Tambah Data</a>
```

Kita ubah dengan

```
<a href="{{ url('/barang/export_excel') }}" class="btn btn-primary"><i class="fa fa-file-excel"></i> Export Barang</a>
```

Hal ini kita lakukan karena tombol **Tambah Data** sudah tidak kita gunakan karena kita sudah menggunakan tombol **Tambah Data (Ajax)**.

2. Kemudian kita tambahkan route pada `route/web.php` untuk bisa memproses export excel

```
Route::get('/barang/import',[BarangController::class,'import']); // ajax form upload excel
Route::post('/barang/import_ajax',[BarangController::class,'import_ajax']); // ajax import excel
Route::get('/barang/export_excel',[BarangController::class,'export_excel']); // export excel
```

3. Selanjutnya kita tambahkan fungsi `export_excel()` pada file `BarangController.php`
4. Kita ambil data barang yang akan kita export ke excel (tentu dengan menyertakan relasi kategori barang)

```
232     public function export_excel()
233     {
234         // ambil data barang yang akan di export
235         $barang = BarangModel::select('kategori_id','barang_kode','barang_nama','harga_beli','harga_jual')
236             ->orderBy('kategori_id')
237             ->with('kategori')
238             ->get();
```

5. Kemudian kita load library `Spreadsheet` dan kita tentukan header data pada baris pertama di excel



```
240 // load library excel
241 $spreadsheet = new \PhpOffice\PhpSpreadsheet\Spreadsheet();
242 $sheet = $spreadsheet->getActiveSheet(); // ambil sheet yang aktif
243
244 $sheet->setCellValue('A1', 'No');
245 $sheet->setCellValue('B1', 'Kode Barang');
246 $sheet->setCellValue('C1', 'Nama Barang');
247 $sheet->setCellValue('D1', 'Harga Beli');
248 $sheet->setCellValue('E1', 'Harga Jual');
249 $sheet->setCellValue('F1', 'Kategori');
250
251 $sheet->getStyle('A1:F1')->getFont()->setBold(true); // bold header
```

6. Selanjutnya, kita looping data yang telah kita dapatkan dari database, kemudian kita masukkan ke dalam cell excel

```
253 $no = 1; // nomor data dimulai dari 1
254 $baris = 2; // baris data dimulai dari baris ke 2
255 foreach ($barang as $key => $value) {
256     $sheet->setCellValue('A' . $baris, $no);
257     $sheet->setCellValue('B' . $baris, $value->barang_kode);
258     $sheet->setCellValue('C' . $baris, $value->barang_nama);
259     $sheet->setCellValue('D' . $baris, $value->harga_beli);
260     $sheet->setCellValue('E' . $baris, $value->harga_jual);
261     $sheet->setCellValue('F' . $baris, $value->kategori->kategori_nama); // ambil nama kategori
262     $baris++;
263     $no++;
264 }
```

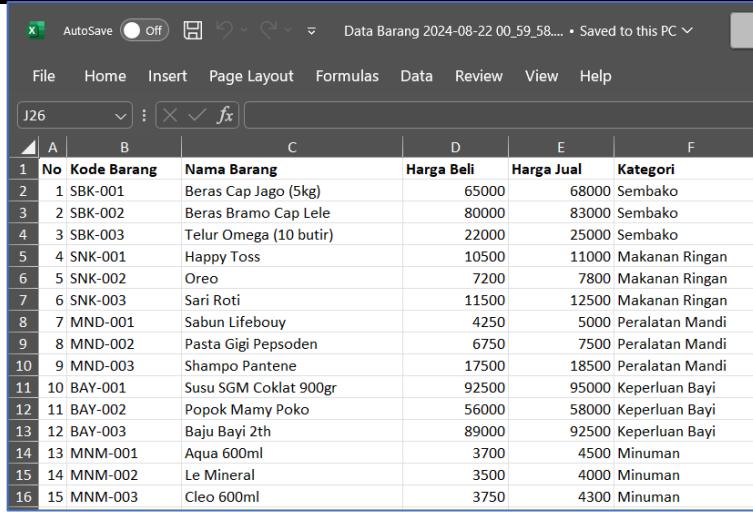
7. Kita set lebar tiap kolom di excel untuk menyesuaikan dengan panjang karakter pada masing-masing kolom

```
266 foreach(range('A', 'F') as $columnID) {
267     $sheet->getColumnDimension($columnID)->setAutoSize(true); // set auto size untuk kolom
268 }
```

8. Bagian akhir proses export excel adalah kita set nama sheet, dan proses untuk dapat di download oleh pengguna

```
270 $sheet->setTitle('Data Barang'); // set title sheet
271
272 $writer = IOFactory::createWriter($spreadsheet, 'Xlsx');
273 $filename = 'Data Barang '.date('Y-m-d H:i:s').'.xlsx';
274
275 header('Content-Type: application/vnd.openxmlformats-officedocument.spreadsheetml.sheet');
276 header('Content-Disposition: attachment;filename="'. $filename .'"]');
277 header('Cache-Control: max-age=0');
278 header('Cache-Control: max-age=1');
279 header('Expires: Mon, 26 Jul 1997 05:00:00 GMT');
280 header('Last-Modified: ' . gmdate('D, d M Y H:i:s') . ' GMT');
281 header('Cache-Control: cache, must-revalidate');
282 header('Pragma: public');
283
284 $writer->save('php://output');
285 exit;
286 } // end function export_excel
```

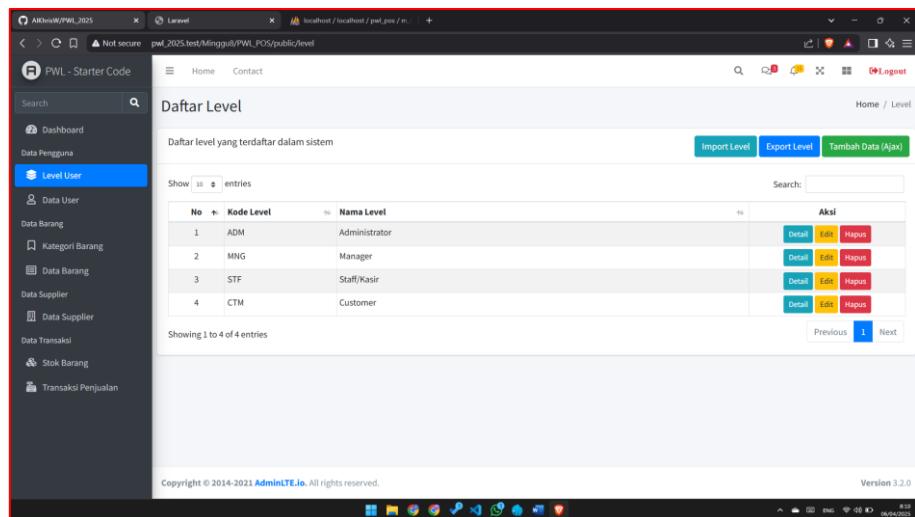
9. Jika sudah selesai diimplementasikan, kita coba untuk melakukan Download file Export tersebut.



| No | Kode Barang | Nama Barang            | Harga Beli | Harga Jual | Kategori        |
|----|-------------|------------------------|------------|------------|-----------------|
| 1  | SBK-001     | Beras Cap Jago (5kg)   | 65000      | 68000      | Sembako         |
| 2  | SBK-002     | Beras Bramo Cap Lele   | 80000      | 83000      | Sembako         |
| 3  | SBK-003     | Telur Omega (10 butir) | 22000      | 25000      | Sembako         |
| 4  | SNK-001     | Happy Toss             | 10500      | 11000      | Makanan Ringan  |
| 5  | SNK-002     | Oreo                   | 7200       | 7800       | Makanan Ringan  |
| 6  | SNK-003     | Sari Roti              | 11500      | 12500      | Makanan Ringan  |
| 7  | MND-001     | Sabun Lifebouy         | 4250       | 5000       | Peralatan Mandi |
| 8  | MND-002     | Pasta Gigi Pepsoden    | 6750       | 7500       | Peralatan Mandi |
| 9  | MND-003     | Shampo Pantene         | 17500      | 18500      | Peralatan Mandi |
| 10 | BAY-001     | Susu SGM Coklat 900gr  | 92500      | 95000      | Keperluan Bayi  |
| 11 | BAY-002     | Popok Mamypoko         | 56000      | 58000      | Keperluan Bayi  |
| 12 | BAY-003     | Baju Bayi 2th          | 89000      | 92500      | Keperluan Bayi  |
| 13 | MNM-001     | Aqua 600ml             | 3700       | 4500       | Minuman         |
| 14 | MNM-002     | Le Mineral             | 3500       | 4000       | Minuman         |
| 15 | MNM-003     | Cleo 600ml             | 3750       | 4300       | Minuman         |

## Tugas 2 – Implementasi File Export Excel:

1. Silahkan implementasikan praktikum 2 pada project kalian masing-masing untuk semua menu
2. Amati dan jelaskan tiap tahapan yang kalian kerjakan, dan jabarkan dalam laporan
  - Data Level



The screenshot shows a web-based application interface for managing user levels. On the left, there is a sidebar with navigation links: Dashboard, Data Pengguna, Level User (which is currently selected and highlighted in blue), Data User, Data Barang, Data Barang, Data Supplier, Data Supplier, Data Transaksi, Stok Barang, and Transaksi Penjualan. The main content area has a title "Daftar Level" and a sub-header "Daftar level yang terdaftar dalam sistem". It features a table with columns: No, Kode Level, Nama Level, and Aksi (with buttons for Detail, Edit, and Hapus). The table contains four entries: ADM (Administrator), MNG (Manager), STF (Staff/Kasir), and CTM (Customer). At the bottom of the table, it says "Showing 1 to 4 of 4 entries". There are also "Import Level", "Export Level", and "Tambah Data (Ajax)" buttons at the top right of the table area.



| No | Kode Level | Nama Level    |
|----|------------|---------------|
| 1  | ADM        | Administrator |
| 2  | MNG        | Manager       |
| 3  | STF        | Staff/Kasir   |
| 4  | CTM        | Customer      |
| 5  |            |               |
| 6  |            |               |
| 7  |            |               |
| 8  |            |               |
| 9  |            |               |
| 10 |            |               |
| 11 |            |               |
| 12 |            |               |
| 13 |            |               |
| 14 |            |               |
| 15 |            |               |
| 16 |            |               |

- Data User

The screenshot shows a web application interface for managing users. On the left is a sidebar with navigation links: Dashboard, Data Pengguna, Level User, Data User (which is highlighted in blue), Data Barang, Kategori Barang, Data Supplier, Data Transaksi, Stok Barang, and Transaksi Penjualan. The main content area has a title 'Daftar User' and a subtitle 'Daftar user yang terdaftar dalam sistem'. It includes a search bar, a filter dropdown set to 'Semua', and a table with 7 entries. The table columns are No, Username, Name, Level Pengguna, and Aksi (Actions). Each row contains a 'Detail' button, an 'Edit' button, and a 'Hapus' button. At the bottom of the table, it says 'Showing 1 to 7 of 7 entries'. There are also 'Previous' and 'Next' buttons.

| No | Username  | Nama          | Level         |
|----|-----------|---------------|---------------|
| 1  | admin     | Administrator | Administrator |
| 2  | manager   | Manager       | Manager       |
| 3  | staff     | Staff/Kasir   | Staff/Kasir   |
| 4  | admin2    | Admin2        | Administrator |
| 5  | staff2    | Kasir 2       | Staff/Kasir   |
| 6  | customer1 | Customer 1    | Customer      |
| 7  | customer2 | Customer 2    | Customer      |
| 8  |           |               |               |
| 9  |           |               |               |
| 10 |           |               |               |
| 11 |           |               |               |
| 12 |           |               |               |
| 13 |           |               |               |
| 14 |           |               |               |
| 15 |           |               |               |
| 16 |           |               |               |

- Data Kategori



| No | Kode Kategori | Nama Kategori | Aksi                    |
|----|---------------|---------------|-------------------------|
| 1  | MKN           | Makanan       | [Detail] [Edit] [Hapus] |
| 2  | MMN           | Minuman       | [Detail] [Edit] [Hapus] |
| 3  | PKN           | Pakaian       | [Detail] [Edit] [Hapus] |
| 4  | ATK           | Alat Tulis    | [Detail] [Edit] [Hapus] |
| 5  | MIN           | Mainan        | [Detail] [Edit] [Hapus] |
| 6  | CML           | Camilan       | [Detail] [Edit] [Hapus] |

| No | Kode Kategori | Nama Kategori |
|----|---------------|---------------|
| 1  | MKN           | Makanan       |
| 2  | MMN           | Minuman       |
| 3  | PKN           | Pakaian       |
| 4  | ATK           | Alat Tulis    |
| 5  | MIN           | Mainan        |
| 6  | CML           | Camilan       |

#### • Data Barang

| No. | Kode Barang | Nama Barang | Harga Beli | Harga Jual | Kategori   | Aksi                    |
|-----|-------------|-------------|------------|------------|------------|-------------------------|
| 1   | MKN001      | Nasi Goreng | 10.000     | 15.000     | Makanan    | [Detail] [Edit] [Hapus] |
| 2   | MKN002      | Mie Goreng  | 5.000      | 10.000     | Makanan    | [Detail] [Edit] [Hapus] |
| 3   | MNM001      | Teh Botol   | 2.000      | 4.000      | Minuman    | [Detail] [Edit] [Hapus] |
| 4   | MNH002      | Aqua        | 1.000      | 2.000      | Minuman    | [Detail] [Edit] [Hapus] |
| 5   | PKN001      | Kemeja      | 50.000     | 70.000     | Pakaian    | [Detail] [Edit] [Hapus] |
| 6   | PKN002      | Celana      | 70.000     | 100.000    | Pakaian    | [Detail] [Edit] [Hapus] |
| 7   | ATK001      | Pensil      | 1.000      | 2.000      | Alat Tulis | [Detail] [Edit] [Hapus] |
| 8   | ATK002      | Buku Tulis  | 5.000      | 10.000     | Alat Tulis | [Detail] [Edit] [Hapus] |
| 9   | MIN001      | Lego        | 20.000     | 25.000     | Mainan     | [Detail] [Edit] [Hapus] |
| 10  | MIN002      | Boneka      | 30.000     | 40.000     | Mainan     | [Detail] [Edit] [Hapus] |



| No | Kode Barang | Nama Barang   | Harga Beli | Harga Jual | Kategori   |
|----|-------------|---------------|------------|------------|------------|
| 1  | MKN001      | Nasi Goreng   | 10000      | 15000      | Makanan    |
| 2  | MKN002      | Mie Goreng    | 5000       | 10000      | Makanan    |
| 3  | MKN003      | Rendang       | 5000       | 7000       | Makanan    |
| 4  | MNN001      | Teh Botol     | 2000       | 4000       | Minuman    |
| 5  | MNN002      | Aqua          | 1000       | 2000       | Minuman    |
| 6  | MNN003      | Fanta 250ml   | 3500       | 4500       | Minuman    |
| 7  | PKN001      | Kemeja        | 50000      | 70000      | Pakaian    |
| 8  | PKN002      | Celana        | 70000      | 100000     | Pakaian    |
| 9  | PKN003      | Kaos Polo     | 65000      | 80000      | Pakaian    |
| 10 | ATK001      | Pensil        | 1000       | 2000       | Alat Tulis |
| 11 | ATK002      | Buku Tulis    | 5000       | 10000      | Alat Tulis |
| 12 | ATK003      | Penghapus     | 500        | 1000       | Alat Tulis |
| 13 | MIN001      | Lego          | 20000      | 25000      | Mainan     |
| 14 | MIN002      | Boneka        | 30000      | 40000      | Mainan     |
| 15 | MIN003      | Action Figure | 150000     | 170000     | Mainan     |
| 16 |             |               |            |            |            |

- Data Supplier

| No | Kode Supplier | Nama Supplier | Aksi                    |
|----|---------------|---------------|-------------------------|
| 1  | S001          | PT. ABC       | [Detail] [Edit] [Hapus] |
| 2  | S002          | PT. DEF       | [Detail] [Edit] [Hapus] |
| 3  | S003          | PT. GHI       | [Detail] [Edit] [Hapus] |
| 4  | S004          | PT. JKL       | [Detail] [Edit] [Hapus] |
| 5  | S005          | PT. MNO       | [Detail] [Edit] [Hapus] |
| 6  | S006          | PT. PQR       | [Detail] [Edit] [Hapus] |
| 7  | S007          | PT. STU       | [Detail] [Edit] [Hapus] |
| 8  | S008          | PT. VWX       | [Detail] [Edit] [Hapus] |
| 9  | S009          | PT. YZA       | [Detail] [Edit] [Hapus] |
| 10 | S010          | PT. BCD       | [Detail] [Edit] [Hapus] |
| 11 | S011          | PT. EFG       | [Detail] [Edit] [Hapus] |
| 12 | S012          | PT. HIJ       | [Detail] [Edit] [Hapus] |

| No | Kode Supplier | Nama Supplier | Alamat Supplier |
|----|---------------|---------------|-----------------|
| 2  | S001          | PT. ABC       | Jl. Raya No. 1  |
| 3  | S002          | PT. DEF       | Jl. Raya No. 2  |
| 4  | S003          | PT. GHI       | Jl. Raya No. 3  |
| 5  | S004          | PT. JKL       | Jl. Raya No. 4  |
| 6  | S005          | PT. MNO       | Jl. Raya No. 5  |
| 7  | S006          | PT. PQR       | Jl. Raya No. 6  |
| 8  | S007          | PT. STU       | Jl. Raya No. 7  |
| 9  | S008          | PT. VWX       | Jl. Raya No. 8  |
| 10 | S009          | PT. YZA       | Jl. Raya No. 9  |
| 11 | S010          | PT. BCD       | Jl. Raya No. 10 |
| 12 | S011          | PT. EFG       | Jl. Raya No. 11 |
| 13 | S012          | PT. HIJ       | Jl. Raya No. 12 |
| 14 |               |               |                 |
| 15 |               |               |                 |
| 16 |               |               |                 |

3. Submit kode untuk implementasi praktikum 2 pada repository github kalian.



## C. Export PDF di Laravel

Fitur **export ke PDF** pada Laravel sangat berguna dalam situasi di mana Kita perlu menghasilkan dokumen yang terstruktur, terformat dengan baik, dan mudah dibagikan. Dokumen PDF (Portable Document Format) adalah salah satu format yang paling sering digunakan untuk laporan, faktur, tiket, dan berbagai dokumen resmi lainnya karena stabilitasnya dan kemampuan untuk mempertahankan tata letak yang konsisten di berbagai perangkat.

Untuk mengimplementasikan export ke PDF di Laravel, salah satu paket yang paling populer adalah **dompdf**. Dengan menggunakan paket **dompdf**, Kita dapat dengan mudah mengubah tampilan HTML menjadi PDF yang dapat disesuaikan sesuai kebutuhan. Fitur ini sangat bermanfaat dalam berbagai konteks, seperti pembuatan faktur, laporan, sertifikat, dan dokumen-dokumen penting lainnya.

### Praktikum 3 – Implementasi Export PDF di Laravel dengan **dompdf**

Kita akan menerapkan export data ke file pdf pada project Laravel dengan menggunakan library **dompdf**. Langkah-langkah yang kita kerjakan sebagai berikut:

1. Kita lakukan proses instalasi library **dompdf** terlebih dahulu dengan mengetikkan perintah pada terminal/CMD

```
composer require barryvdh/laravel-dompdf
```

2. Setelah proses instalasi **dompdf** berhasil, selanjutnya Kita tambahkan kode berikut untuk menambahkan tombol export ke pdf pada **barang/index.blade.php**

```
<a href="{{ url('/barang/export_pdf') }}" class="btn btn-warning"><i class="fa fa-file-pdf"></i> Export Barang</a>
```

3. Setelah itu tinggal kita perbaiki route/web.php untuk proses export pdf

```
Route::get('/barang/import',[BarangController::class,'import']); // ajax form upload excel
Route::post('/barang/import_ajax',[BarangController::class,'import_ajax']); // ajax import excel
Route::get('/barang/export_excel',[BarangController::class,'export_excel']); // export excel
Route::get('/barang/export_pdf',[BarangController::class,'export_pdf']); // export pdf
```

4. Selanjutnya, kita buat fungsi **export\_pdf()** pada **BarangController.php**



```
public function export_pdf()
{
    $barang = BarangModel::select('kategori_id','barang_kode','barang_nama','harga_beli','harga_jual')
        ->orderBy('kategori_id')
        ->orderBy('barang_kode')
        ->with('kategori')
        ->get();

    // use Barryvdh\DomPDF\Facade\Pdf;
    $pdf = Pdf::loadView('barang.export_pdf', ['barang' => $barang]);
    $pdf->setPaper('a4', 'portrait'); // set ukuran kertas dan orientasi
    $pdf->setOption("isRemoteEnabled", true); // set true jika ada gambar dari url
    $pdf->render();

    return $pdf->stream('Data Barang '.date('Y-m-d H:i:s').'.pdf');
}
```

5. Selanjutnya, kita buat view untuk dijadikan pdf dari layout html. File bisa kita buat dengan nama [barang/export\\_pdf.blade.php](#)

#### INFO

Perlu diingat, pada export\_pdf, kita gunakan style CSS secara manual, dan tidak menggunakan framework CSS seperti bootstrap. Karena library dompdf tidak support semua fitur styling yang ada di framework CSS.

6. Selanjutnya kita buat view untuk me-generate html untuk tampilan pdf yang akan kita sajikan. View berada di [barang/export\\_pdf.blade.php](#)

```
<html>
<head>
    <meta http-equiv="Content-Type" content="text/html; charset=utf-8"/>
    <style>
        body{
            font-family: "Times New Roman", Times, serif;
            margin: 6px 20px 5px 20px;
            line-height: 15px;
        }
        table {
            width:100%;
            border-collapse: collapse;
        }
        td, th {
            padding: 4px 3px;
        }
        th{
            text-align: left;
        }
        .d-block{
            display: block;
        }
        img.image{
            width: auto;
            height: 80px;
            max-width: 150px;
            max-height: 150px;
        }
        .text-right {
            text-align: right;
        }
    </style>
</head>
<body>
```



```
.text-center {
    text-align: center;
}
.p-1{
    padding: 5px 1px 5px 1px;
}
.font-10{
    font-size: 10pt;
}
.font-11{
    font-size: 11pt;
}
.font-12{
    font-size: 12pt;
}
.font-13{
    font-size: 13pt;
}
.border-bottom-header{
    border-bottom: 1px solid;
}
.border-all, .border-all th, .border-all td{
    border: 1px solid;
}
</style>
</head>
<body>
    <table class="border-bottom-header">
        <tr>
            <td width="15%" class="text-center">
                <span class="text-center d-block font-11 font-bold mb-1">KEMENTERIAN
                PENDIDIKAN, KEBUDAYAAN, RISET, DAN TEKNOLOGI</span>
                <span class="text-center d-block font-13 font-bold mb-1">POLITEKNIK NEGERI
                MALANG</span>
                <span class="text-center d-block font-10">Jl. Soekarno-Hatta No. 9 Malang
                65141</span>
                <span class="text-center d-block font-10">Telepon (0341) 404424 Pes. 101-
                105, 0341-404420, Fax. (0341) 404420</span>
                <span class="text-center d-block font-10">Laman: www.polinema.ac.id</span>
            </td>
        </tr>
    </table>

    <h3 class="text-center">LAPORAN DATA BARANG</h4>
    <table class="border-all">
        <thead>
            <tr>
                <th class="text-center">No</th>
                <th>Kode Barang</th>
                <th>Nama Barang</th>
                <th class="text-right">Harga Beli</th>
                <th class="text-right">Harga Jual</th>
                <th>Kategori</th>
            </tr>
        </thead>
        <tbody>
            @foreach($barang as $b)
            <tr>
                <td class="text-center">{{ $loop->iteration }}</td>
                <td>{{ $b->barang_kode }}</td>
                <td>{{ $b->barang_nama }}</td>
                <td class="text-right">{{ number_format($b->harga_beli, 0, ',', '.') }}</td>
                <td class="text-right">{{ number_format($b->harga_jual, 0, ',', '.') }}</td>
                <td>{{ $b->kategori->kategori_nama }}</td>
            </tr>
        @endforeach
    </tbody>
</table>

```

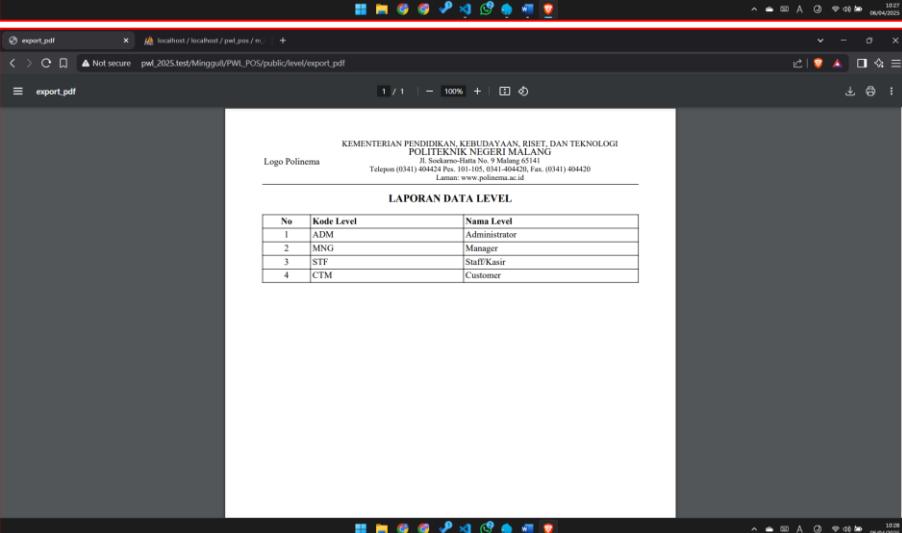
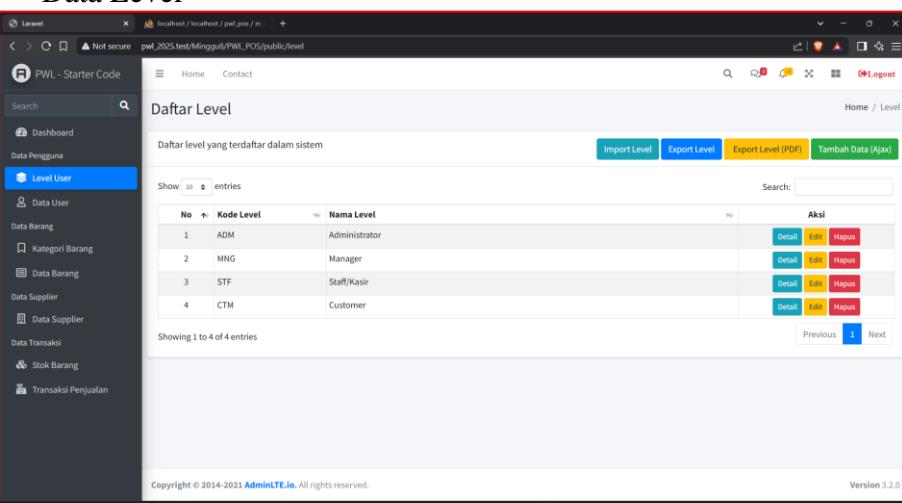


```
@endforeach
</tbody>
</table>
</body>
</html>
```

7. Selanjutnya, Kita coba untuk melakukan proses download export pdf. Amati dan pelajari...!!!

### Tugas 3 – Implementasi Export PDF pada Laravel :

1. Silahkan implementasikan export pdf pada project kalian masing-masing untuk semua menu
2. Amati dan jelaskan tiap tahapan yang kalian kerjakan, dan jabarkan dalam laporan
  - Data Level



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Version 3.2.0

- Data User



The screenshot shows the 'Daftar User' (User List) page. On the left sidebar, 'Data User' is selected. The main table lists users with columns: No, Username, Name, Level Pengguna (Level User), and Aksi (Actions). The data is as follows:

| No | Username  | Name          | 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  | admin2    | Admin2        | Administrator  | [Detail, Edit, Hapus] |
| 5  | staff2    | Kasir 2       | Staff/Kasir    | [Detail, Edit, Hapus] |
| 6  | customer1 | Customer 1    | Customer       | [Detail, Edit, Hapus] |
| 7  | customer2 | Customer 2    | Customer       | [Detail, Edit, Hapus] |

Below the table, it says 'Showing 1 to 7 of 7 entries'. At the top right, there are buttons for 'Import User', 'Export User', 'Export User (PDF)', and 'Tambah Data (Ajax)'. The bottom of the page includes copyright information and a version number.

The screenshot shows a PDF document titled 'LAPORAN DATA USER'. It contains the same user data as the previous screenshot, presented in a table format. The PDF is generated by the 'Export User (PDF)' button from the previous screen.

- Data Kategori

The screenshot shows the 'Daftar Kategori' (Category List) page. On the left sidebar, 'Kategori Barang' is selected. The main table lists categories with columns: No, Kode Kategori, and Nama Kategori. The data is as follows:

| No | Kode Kategori | Nama Kategori |
|----|---------------|---------------|
| 1  | MKN           | Makanan       |
| 2  | MNM           | Minuman       |
| 3  | PKN           | Pakaian       |
| 4  | ATK           | Alat Tulis    |
| 5  | MIN           | Mainan        |
| 6  | CML           | Camilan       |

Below the table, it says 'Showing 1 to 6 of 6 entries'. At the top right, there are buttons for 'Import Kategori', 'Export Kategori', 'Export Kategori (PDF)', and 'Tambah Data (Ajax)'. The bottom of the page includes copyright information and a version number.



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Laman: [www.polinema.ac.id](http://www.polinema.ac.id)

LAPORAN DATA KATEGORI

| No | Kode Kategori | Nama Kategori |
|----|---------------|---------------|
| 1  | MKN           | Makanan       |
| 2  | MNM           | Minuman       |
| 3  | PKN           | Pakaian       |
| 4  | ATK           | Alat Tulis    |
| 5  | MIN           | Mainan        |
| 6  | CML           | Camilan       |

### • Data Barang

Data Barang

| No. | Kode Barang | Nama Barang | Harga Beli | Harga Jual | Kategori   | Aksi                    |
|-----|-------------|-------------|------------|------------|------------|-------------------------|
| 1   | MKN001      | Nasi Goreng | 10.000     | 15.000     | Makanan    | [Detail] [Edit] [Hapus] |
| 2   | MKN002      | Mie Goreng  | 5.000      | 10.000     | Makanan    | [Detail] [Edit] [Hapus] |
| 3   | MNM001      | Teh Botol   | 2.000      | 4.000      | Minuman    | [Detail] [Edit] [Hapus] |
| 4   | MNM002      | Aqua        | 1.000      | 2.000      | Minuman    | [Detail] [Edit] [Hapus] |
| 5   | PKN001      | Kemeja      | 50.000     | 70.000     | Pakaian    | [Detail] [Edit] [Hapus] |
| 6   | PKN002      | Celana      | 70.000     | 100.000    | Pakaian    | [Detail] [Edit] [Hapus] |
| 7   | ATK001      | Pensil      | 1.000      | 2.000      | Alat Tulis | [Detail] [Edit] [Hapus] |
| 8   | ATK002      | Buku Tulis  | 5.000      | 10.000     | Alat Tulis | [Detail] [Edit] [Hapus] |
| 9   | MIN001      | Lego        | 20.000     | 25.000     | Mainan     | [Detail] [Edit] [Hapus] |
| 10  | MIN002      | Boneka      | 30.000     | 40.000     | Mainan     | [Detail] [Edit] [Hapus] |

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Laman: [www.polinema.ac.id](http://www.polinema.ac.id)

LAPORAN DATA BARANG

| No | Kode Barang | Nama Barang   | Harga Beli | Harga Jual | Kategori   |
|----|-------------|---------------|------------|------------|------------|
| 1  | MKN001      | Nasi Goreng   | 10.000     | 15.000     | Makanan    |
| 2  | MKN002      | Mie Goreng    | 5.000      | 10.000     | Makanan    |
| 3  | MKN003      | Rendang       | 5.000      | 7.000      | Makanan    |
| 4  | MNM001      | Teh Botol     | 2.000      | 4.000      | Minuman    |
| 5  | MNM002      | Aqua          | 1.000      | 2.000      | Minuman    |
| 6  | MNM003      | Fanta 250ml   | 3.500      | 4.500      | Minuman    |
| 7  | PKN001      | Kemeja        | 50.000     | 70.000     | Pakaian    |
| 8  | PKN002      | Celana        | 70.000     | 100.000    | Pakaian    |
| 9  | PKN003      | Kaos Polo     | 65.000     | 80.000     | Pakaian    |
| 10 | ATK001      | Pensil        | 1.000      | 2.000      | Alat Tulis |
| 11 | ATK002      | Buku Tulis    | 5.000      | 10.000     | Alat Tulis |
| 12 | ATK003      | Penghapus     | 500        | 1.000      | Alat Tulis |
| 13 | MIN001      | Lego          | 20.000     | 25.000     | Mainan     |
| 14 | MIN002      | Boneka        | 30.000     | 40.000     | Mainan     |
| 15 | MIN003      | Action Figure | 150.000    | 170.000    | Mainan     |

### • Data Supplier



The screenshot shows two browser windows. The top window is titled 'Daftar Supplier' and displays a table of 12 supplier entries. The bottom window is titled 'export.pdf' and shows a PDF document titled 'LAPORAN DATA SUPPLIER' containing the same supplier data.

| No | Kode Supplier | Nama Supplier | Alamat Supplier | Aksi                    |
|----|---------------|---------------|-----------------|-------------------------|
| 1  | S001          | PT.ABC        | Jl. Raya No. 1  | [Detail] [Edit] [Hapus] |
| 2  | S002          | PT.DEF        | Jl. Raya No. 2  | [Detail] [Edit] [Hapus] |
| 3  | S003          | PT.GHI        | Jl. Raya No. 3  | [Detail] [Edit] [Hapus] |
| 4  | S004          | PT.JKL        | Jl. Raya No. 4  | [Detail] [Edit] [Hapus] |
| 5  | S005          | PT.MNO        | Jl. Raya No. 5  | [Detail] [Edit] [Hapus] |
| 6  | S006          | PT.PQR        | Jl. Raya No. 6  | [Detail] [Edit] [Hapus] |
| 7  | S007          | PT.STU        | Jl. Raya No. 7  | [Detail] [Edit] [Hapus] |
| 8  | S008          | PT.VWX        | Jl. Raya No. 8  | [Detail] [Edit] [Hapus] |
| 9  | S009          | PT.YZA        | Jl. Raya No. 9  | [Detail] [Edit] [Hapus] |
| 10 | S010          | PT.BCD        | Jl. Raya No. 10 | [Detail] [Edit] [Hapus] |
| 11 | S011          | PT.EFG        | Jl. Raya No. 11 | [Detail] [Edit] [Hapus] |
| 12 | S012          | PT.HIJ        | Jl. Raya No. 12 | [Detail] [Edit] [Hapus] |

3. Submit kode untuk implementasi export pdf pada repository github kalian.

#### Tugas 4 – Implementasi Upload File Gambar :

1. Silahkan implementasikan fitur **upload file** untuk mengubah **foto profile** di project web kalian
2. Jelaskan tiap tahapan yang kalian kerjakan, dan jabarkan dalam laporan
  - Menambahkan kolom foto pada tabel m\_user

```
PS C:\Laragon\www\PWL_2025\Winggu8\PWL_POS> php artisan make:migration update_m_user_table
INFO Migration [C:\Laragon\www\PWL_2025\Winggu8\PWL_POS\database\migrations\2025_04_08_024539_update_m_user_table.php] created successfully.
```



```
 1 <?php
 2
 3 use Illuminate\Database\Migrations\Migration;
 4 use Illuminate\Database\Schema\Blueprint;
 5 use Illuminate\Support\Facades\Schema;
 6
 7 return new class extends Migration
 8 {
 9     /**
10      * Run the migrations.
11      */
12     public function up(): void
13     {
14         Schema::table('m_user', function (Blueprint $table) {
15             $table->string('user_profile_picture')->nullable()->after('password');
16         });
17     }
18
19     /**
20      * Reverse the migrations.
21      */
22     public function down(): void
23     {
24         Schema::table('m_user', function (Blueprint $table) {
25             $table->dropColumn('user_profile_picture');
26         });
27     }
28 };
29
```

- Menambahkan function profile\_page() dan update\_picture() pada UserController

```
 1 public function profile_page()
 2 {
 3     $user = auth()->user();
 4
 5     $breadcrumb = (object) [
 6         'title' => 'User Profile',
 7         'list' => ['Home', 'Profile']
 8     ];
 9
10    $page = (object) [
11        'title' => 'User Profile'
12    ];
13
14    $activeMenu = 'profile';
15
16    return view('user.profile', ['user' => $user, 'breadcrumb' => $breadcrumb, 'page' => $page, 'activeMenu' => $activeMenu]);
17 }
18 public function update_picture(Request $request)
{
    // Validasi file
    $request->>validate([
        'photo_profile' => 'required|image|mimes:jpeg,png,jpg|max:2048',
    ]);
    try {
        $user = auth()->user();
        if (!$user) {
            return redirect('/login')->with('error', 'Silahkan login terlebih dahulu');
        }
        $userId = $user->user_id;
        $userModel = UserModel::find($userId);
        if (!$userModel) {
            return redirect('/login')->with('error', 'User tidak ditemukan');
        }
        // Menghapus foto jika sudah ada
        if ($userModel->photo_profile && file_exists(storage_path('app/public/' . $userModel->photo_profile))) {
            Storage::disk('public')->delete($userModel->photo_profile);
        }
        $fileName = 'profile_' . $userId . '_' . time() . '.' . $request->photo_profile->extension();
        $path = $request->photo_profile->storeAs('profiles', $fileName, 'public');
        UserModel::where('user_id', $userId)->update([
            'photo_profile' => $path
        ]);
        return redirect()->back()->with('success', 'Foto profile berhasil diperbarui');
    } catch (\Exception $e) {
        return redirect()->back()->with('error', 'Gagal mengupload foto: ' . $e->getMessage());
    }
}
```



- Menambahkan user\_profile\_picture pada UserModel fillable

```
1 class UserModel extends Authenticatable
2 {
3     use HasFactory;
4
5     protected $table = 'm_user';
6     protected $primaryKey = 'user_id';
7     protected $fillable = ['level_id', 'username', 'nama', 'password', 'user_profile_picture'];
```

- Menambahkan route pada web

```
1 Route::group(['prefix' => 'user'], function () {
2     Route::get('/profile', [UserController::class, 'profile_page']);
3     Route::post('/update_picture', [UserController::class, 'update_picture']);
4 });
5
```

- Menambahkan menu baru pada sidebar

```
1 <li class="nav-item fixed-bottom mx-2">
2     <a href="{{ url('/user/profile') }}" class="nav-link {{ ($activeMenu == 'profile')? 'active' : '' }} ">
3         <i class="nav-icon fas fa-user-circle"></i>
4         <p> User Profile</p>
5     </a>
6 </li>
7
```

The screenshot shows a browser window displaying a Laravel application. The sidebar on the left has a 'Dashboard' item selected, which is highlighted in blue. Under 'Dashboard', there is a 'User Profile' item. The main content area displays a welcome message: 'Selamat Datang' and 'Halo, apakah!!!'. At the bottom of the page, there is a footer with copyright information: 'Copyright © 2014-2021 AdminLTE.io. All rights reserved.' and 'Version 3.2.0'.

- Membuat page baru dengan nama profile.blade.php pada views.user



```
1  @extends('layouts.template')
2
3  @section('content')
4  <div class="card">
5      <div class="card-header">
6          <h3 class="card-title">Profil Pengguna</h3>
7      </div>
8      <div class="card-body">
9          <div class="row">
10             <div class="col-md-4 text-center">
11                 
12                 class="img-circle elevation-2" alt="User Image" style="width: 200px; height: 200px; object-fit: cover;"/>
13
14             <form action="{{ url('/user/update_picture') }}" method="POST" enctype="multipart/form-data" class="mt-3">
15                 @csrf
16                 <div class="form-group">
17                     <div class="input-group">
18                         <div class="custom-file">
19                             <input type="file" class="custom-file-input" id="foto_profil" name="foto_profil" accept="image/*">
20                             <label class="custom-file-label" for="foto_profil">Pilih Foto</label>
21                         </div>
22                     </div>
23                     @error('foto_profil')
24                         <small class="text-danger">{{ $message }}Upload Foto</button>
28             </form>
29         </div>
30         <div class="col-md-8">
31             <h4>Data User</h4>
32             <table class="table">
33                 <tr>
34                     <th width="30%">Username</th>
35                     <td>{{ $user->username }}</td>
36                 </tr>
37                 <tr>
38                     <th>Nama</th>
39                     <td>{{ $user->nama }}</td>
40                 </tr>
41                 <tr>
42                     <th>Level</th>
43                     <td>{{ $user->level->level_nama ?? '-' }}</td>
44                 </tr>
45             </table>
46         </div>
47     </div>
48 </div>
49 </div>
50 </div>
51 </div>
52 <push('scripts')>
53 <script>
54     // Script untuk menampilkan nama file yang dipilih
55     $(document).ready(function() {
56         $('#foto_profil').on('change', function() {
57             // Dapatkan nama file
58             var fileName = $(this).val().split('\\').pop();
59             // Ganti label dengan nama file
60             $(this).next('.custom-file-label').html(fileName);
61
62             // Preview Image
63             if (this.files && this.files[0]) {
64                 var reader = new FileReader();
65                 reader.onload = function(e) {
66                     $('img.img-circle').attr('src', e.target.result);
67                 }
68                 reader.readAsDataURL(this.files[0]);
69             }
70         });
71     });
72 </script>
73 </endpush>
```

User Profile

Profil Pengguna

Data User

| User Image | Pilih Foto     | Browse |
|------------|----------------|--------|
|            | Upload Foto    |        |
| Username   | :admin         |        |
| Nama       | :Administrator |        |
| Level      | :Administrator |        |

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- Tes update picture



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\*\*\* Sekian, dan selamat belajar \*\*\*