Materi Pertemuan 10 - Checkout Process

Use Case

1. User bisa melanjutkan keranjang belanja menuju proses pembayaran

Database

1. Table orders
    - id
    - user_id
    - status
    - total_price
    - shipping_address
    - zip_code
    - created_at
    - updated_at
2. Table order_items
    - id
    - order_id
    - product_id
    - quantity
    - price
    - create_at
    - updated_at
3. Finish

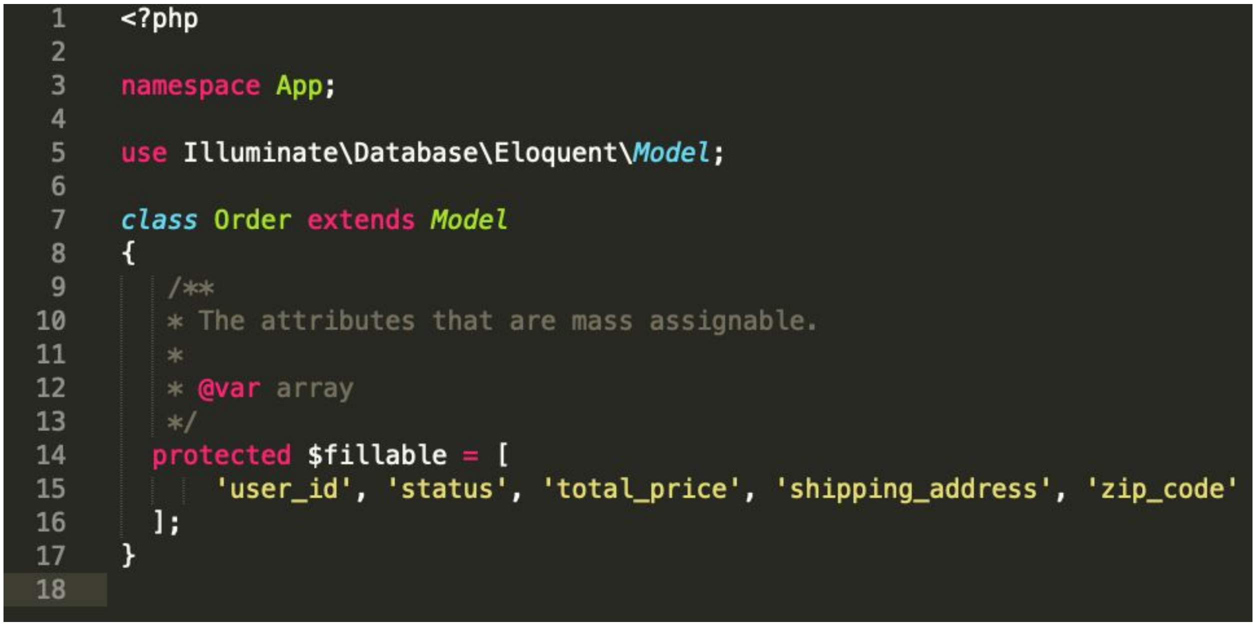
Prasarat

1. Laravel yang digunakan versi 5.8.4
2. Mengerjakan latihan dan tutorial pada ‘Materi Pertemuan 9 - 2 - Keranjang Belanja’

Membuat Table dan Model

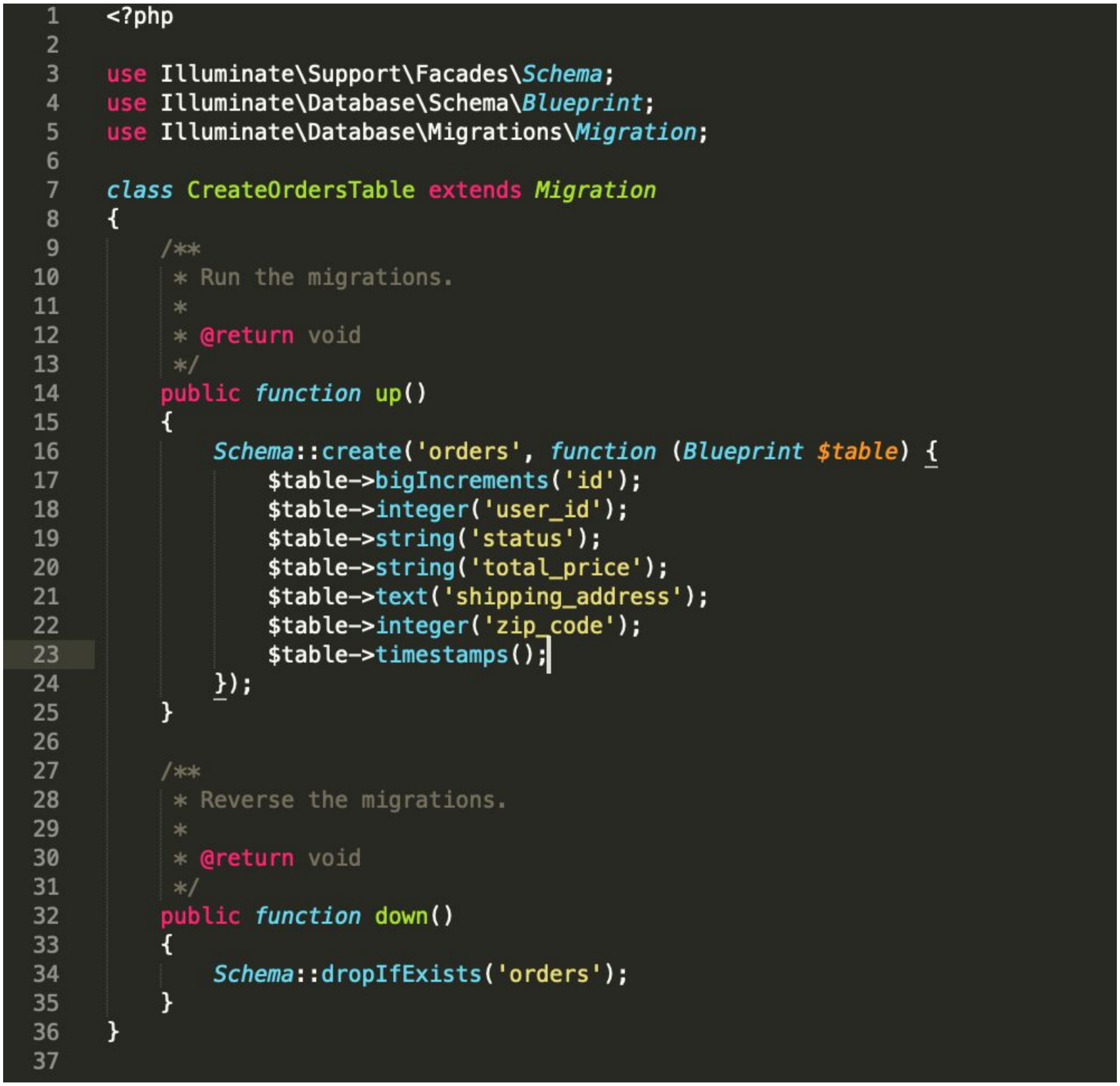
1. Kita akan membuat migration dan model Order
   php artisan make:model Order -m

2. Pindahkan file app/Order.php ke app/Models/Order.php. Kemudian edit file model Order.php menjadi seperti ini



```php
<?php

namespace App;

use Illuminate\Database\Eloquent\Model;

class Order extends Model
{
    /**
     * The attributes that are mass assignable.
     *
     * @var array
     */
    protected $fillable = [
        'user_id', 'status', 'total_price', 'shipping_address', 'zip_code'
    ];
}

```

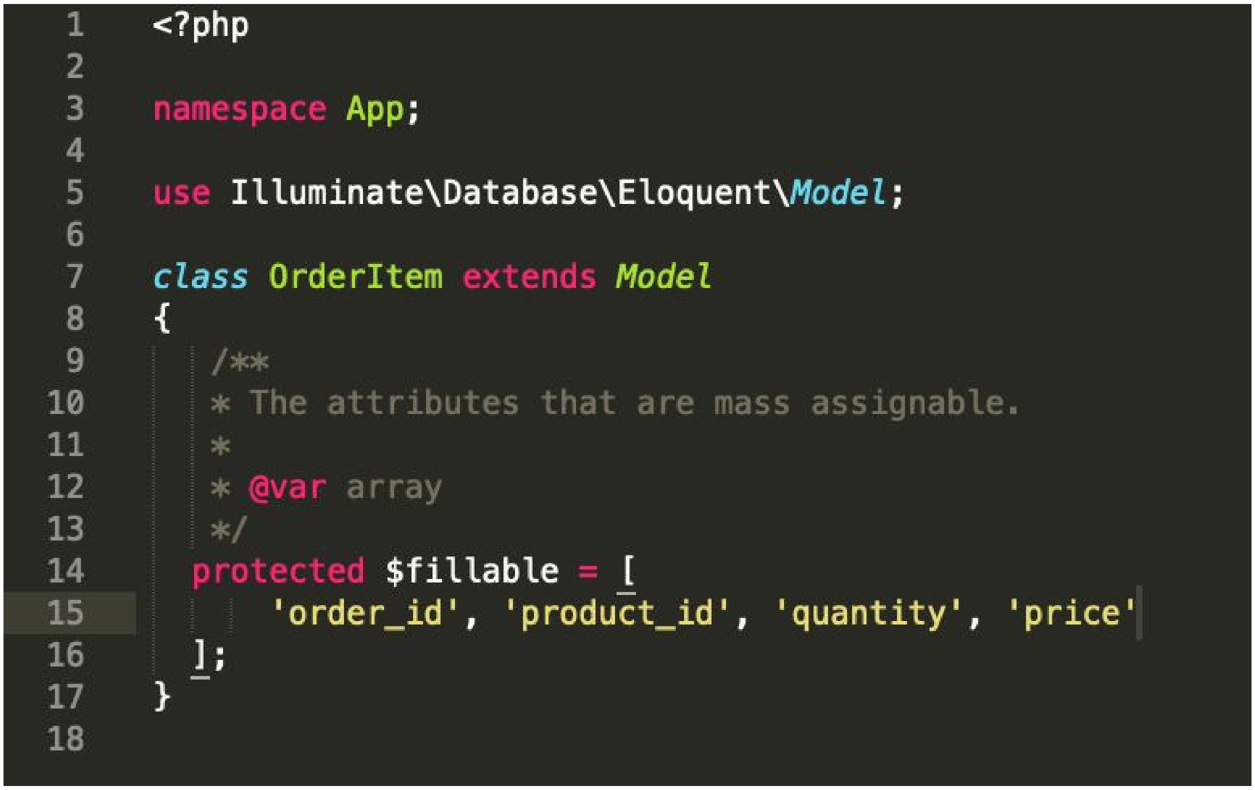
3. Kita buat scheme table databse dengan menambahkan code pada file database/migration/…._create_orders_table.php



```php
<?php

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

class CreateOrdersTable extends Migration
{
    /**
     * Run the migrations.
     *
     * @return void
     */
    public function up()
    {
        Schema::create('orders', function (Blueprint $table) {
            $table->bigIncrements('id');
            $table->integer('user_id');
            $table->string('status');
            $table->string('total_price');
            $table->text('shipping_address');
            $table->integer('zip_code');
            $table->timestamps();
        });
    }

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

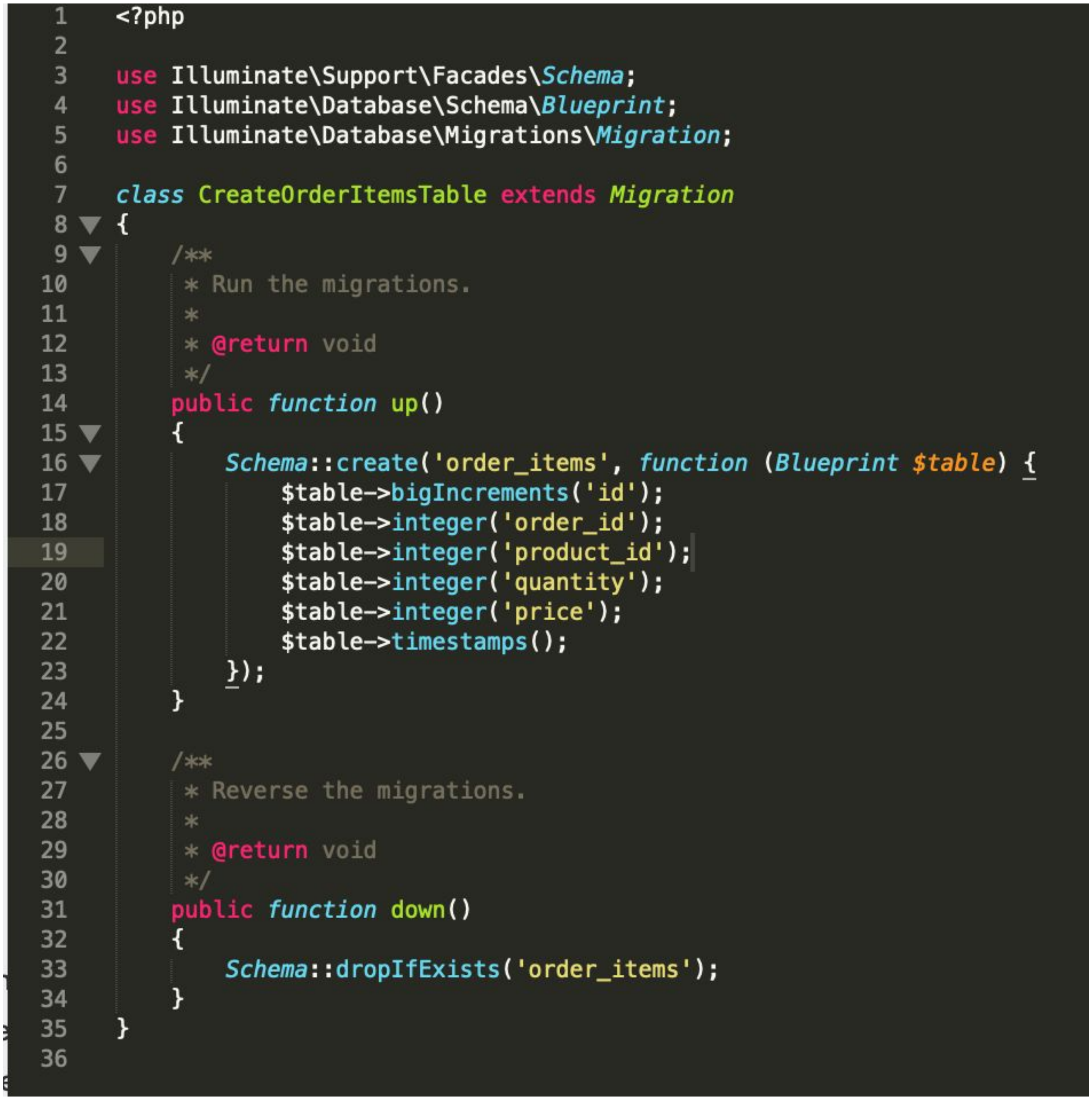
4. Jalankan
   php atisan migrate

5. Selanjutnya kita akan membuat migration dan model OrderItem
   php artisan make:model OrderItem -m
6. Pindahkan file app/OrderItem.php ke app/Models/OrderItem.php. Kemudian edit file model OrderItem.php menjadi seperti ini



```php
<?php

namespace App;

use Illuminate\Database\Eloquent\Model;

class OrderItem extends Model
{
    /**
    * The attributes that are mass assignable.
    *
    * @var array
    */
    protected $fillable = [
        'order_id', 'product_id', 'quantity', 'price'
    ];
}

```

7. Kita buat scheme table databse dengan menambahkan code pada file database/migration/…._create_order_items_table.php



```php
<?php

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

class CreateOrderItemsTable extends Migration
{
    /**
     * Run the migrations.
     *
     * @return void
     */
    public function up()
    {
        Schema::create('order_items', function (Blueprint $table) {
            $table->bigIncrements('id');
            $table->integer('order_id');
            $table->integer('product_id');
            $table->integer('quantity');
            $table->integer('price');
            $table->timestamps();
        });
    }

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

```

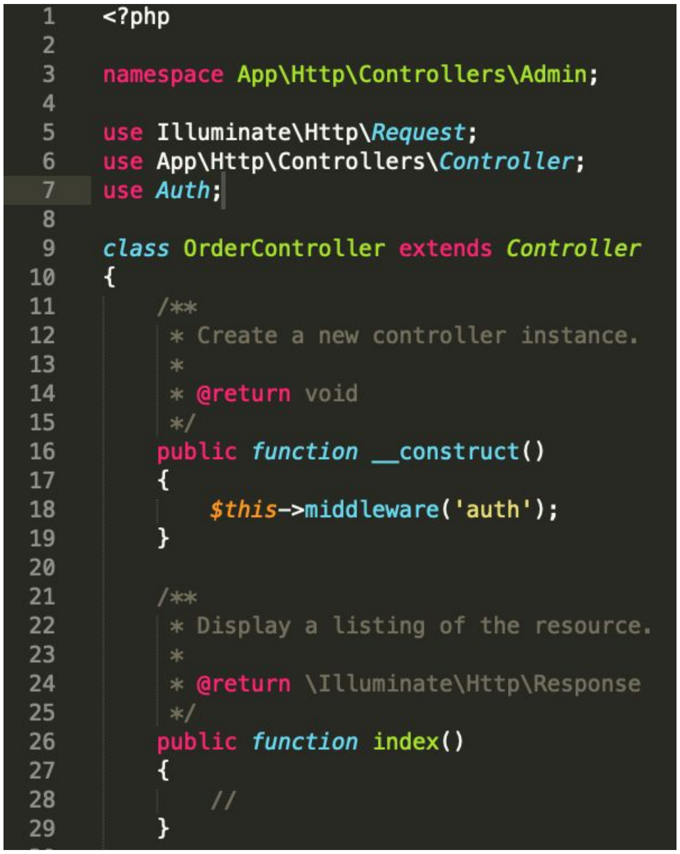
8. Jalankan
   php atisan migrate
9. Finish

Membuat Controller Order

1. Generate controller order dengan menjalankan command dibawh ini
   php artisan make:controller Admin/OrderController --resource

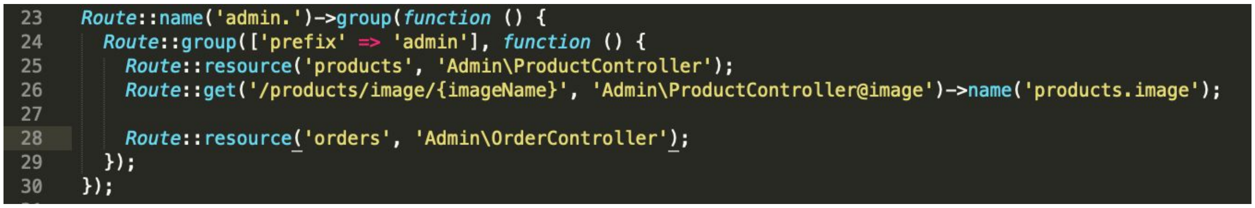
2. Command diatas akan men-generate file app/Http/Controllers/Admin/OrderController.php dengan 7 method yang sudah tersedia:
   - index() → untuk menampilkan list order
   - create() → untuk menambah order baru (form view)
   - store() → untuk menambah order baru (form action)
   - show() → untuk melihat detail order
   - edit() → untuk meng-edit order (form view)
   - update() → untuk meng-edit order (form action)
   - destroy() → untuk menghapus order (FUNGSI INI TIDAK AKAN KITA PAKAI)

3. Tambahkan code dibawah ini, untuk membatasi guest user (line 7 dan line 16-19)



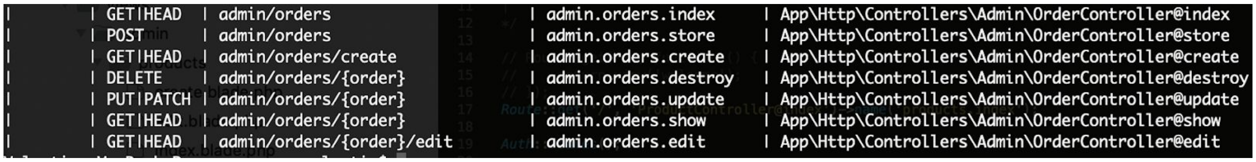
```
1   <?php
2   
3   namespace App\Http\Controllers\Admin;
4   
5   use Illuminate\Http\Request;
6   use App\Http\Controllers\Controller;
7   use Auth;
8   
9   class OrderController extends Controller
10  {
11      /**
12       * Create a new controller instance.
13       *
14       * @return void
15       */
16      public function __construct()
17      {
18          $this->middleware('auth');
19      }
20  
21      /**
22       * Display a listing of the resource.
23       *
24       * @return \Illuminate\Http\Response
25       */
26      public function index()
27      {
28          //
29      }
```

4. Pada file routes/web.php, tambahkan code dibawah ini (line 28)



```
23  Route::name('admin.')->group(function () {
24    Route::group(['prefix' => 'admin'], function () {
25      Route::resource('products', 'Admin\ProductController');
26      Route::get('/products/image/{imageName}', 'Admin\ProductController@image')->name('products.image');
27
28      Route::resource('orders', 'Admin\OrderController');
29    });
30  });
```

5. Untuk melihat hasil dari settingan routes diatas, jalankan command dibawah ini
   php artisan route:list | grep order

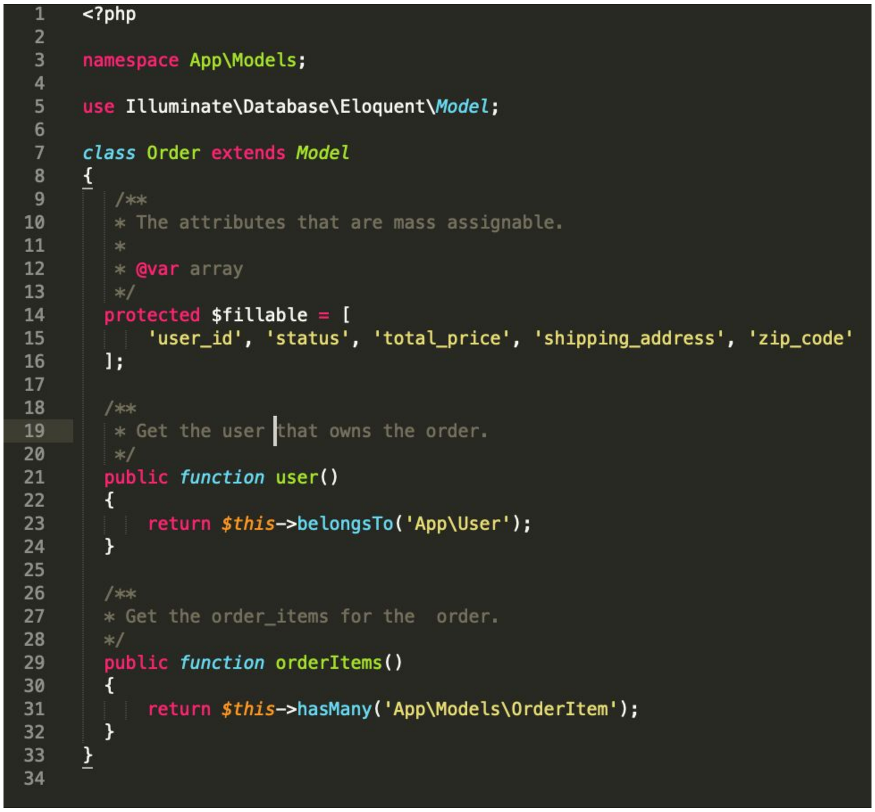


```
|        | GET|HEAD  | admin/orders              | admin.orders.index    | App\Http\Controllers\Admin\OrderController@index
|        | POST      | admin/orders              | admin.orders.store    | App\Http\Controllers\Admin\OrderController@store
|        | GET|HEAD  | admin/orders/create       | admin.orders.create   | App\Http\Controllers\Admin\OrderController@create
|        | DELETE    | admin/orders/{order}      | admin.orders.destroy  | App\Http\Controllers\Admin\OrderController@destroy
|        | PUT|PATCH | admin/orders/{order}      | admin.orders.update   | App\Http\Controllers\Admin\OrderController@update
|        | GET|HEAD  | admin/orders/{order}      | admin.orders.show     | App\Http\Controllers\Admin\OrderController@show
|        | GET|HEAD  | admin/orders/{order}/edit | admin.orders.edit     | App\Http\Controllers\Admin\OrderController@edit
```

6. Finish

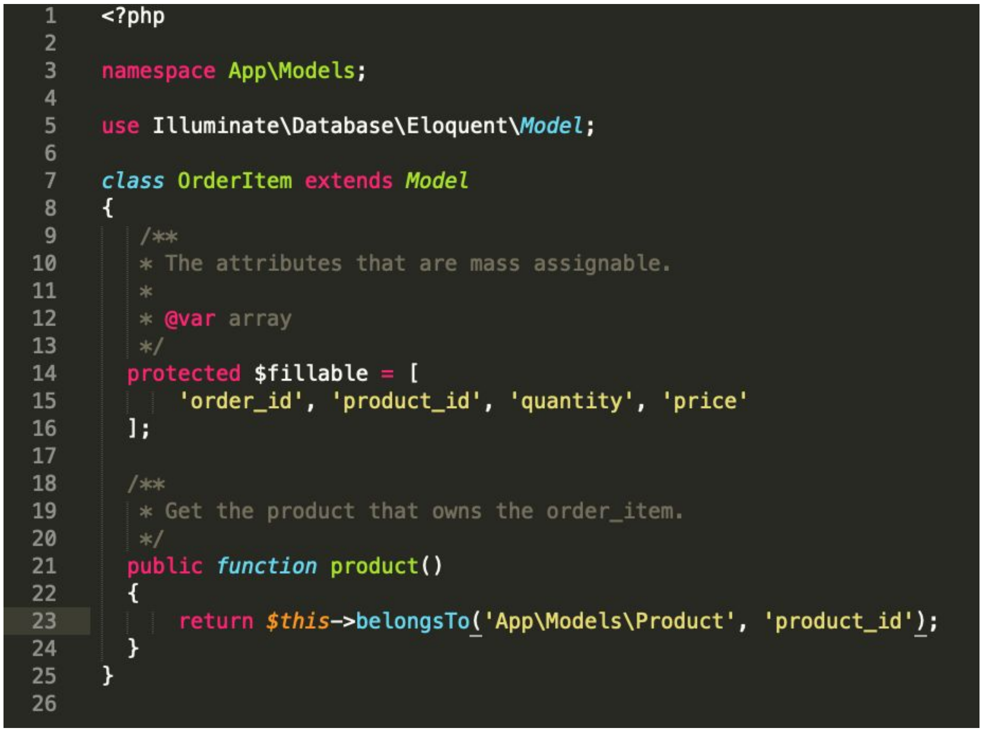
Membuat Function Untuk Membuat Order Baru

1. Edit file app/Models/Order.php, tambahkan code dibawah ini (line 18-32)



```
1   <?php
2
3   namespace App\Models;
4
5   use Illuminate\Database\Eloquent\Model;
6
7   class Order extends Model
8   {
9       /**
10       * The attributes that are mass assignable.
11       *
12       * @var array
13       */
14      protected $fillable = [
15          'user_id', 'status', 'total_price', 'shipping_address', 'zip_code'
16      ];
17
18      /**
19       * Get the user that owns the order.
20       */
21      public function user()
22      {
23          return $this->belongsTo('App\User');
24      }
25
26      /**
27      * Get the order_items for the  order.
28      */
29      public function orderItems()
30      {
31          return $this->hasMany('App\Models\OrderItem');
32      }
33  }
34
```

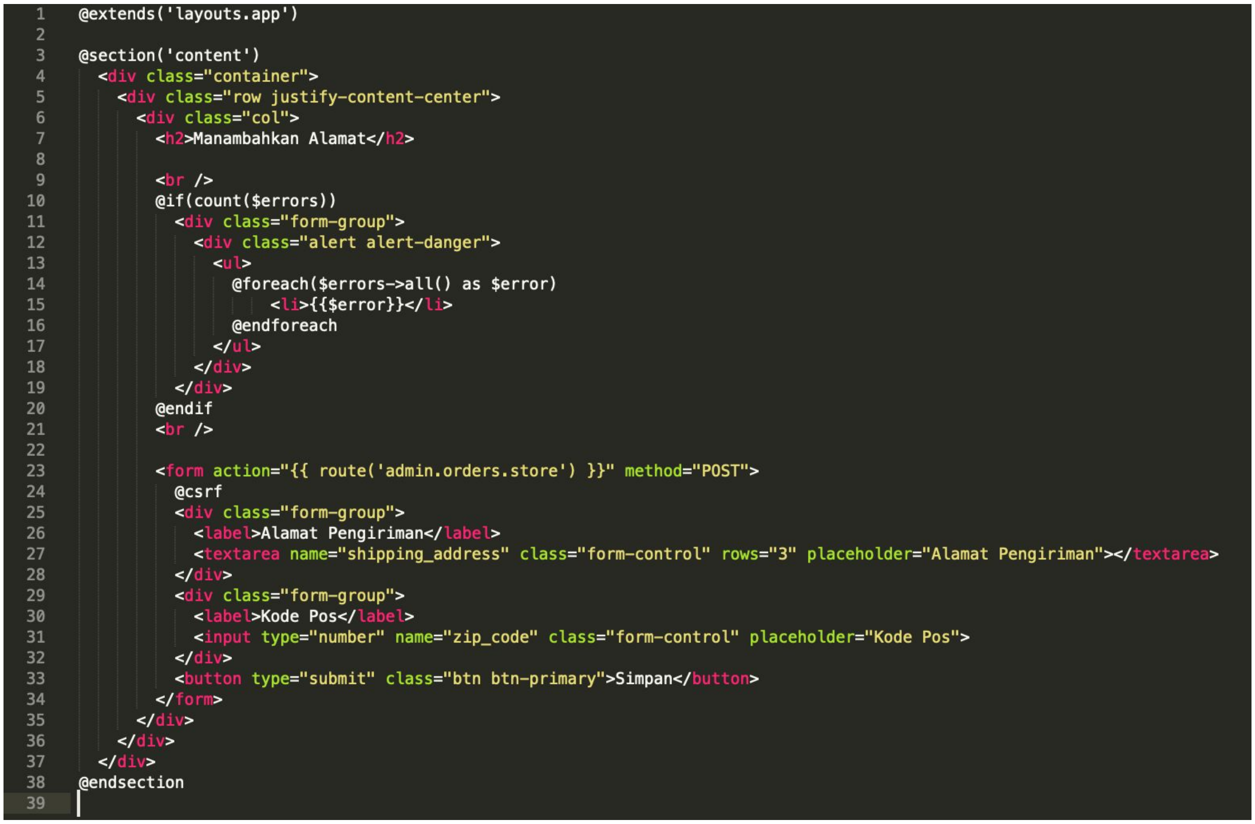
2. Edit file app/Models/OrderItem.php, tambahkan code dibawah ini (line 18-24)



```
 1  <?php
 2  
 3  namespace App\Models;
 4  
 5  use Illuminate\Database\Eloquent\Model;
 6  
 7  class OrderItem extends Model
 8  {
 9      /**
10       * The attributes that are mass assignable.
11       *
12       * @var array
13       */
14      protected $fillable = [
15          'order_id', 'product_id', 'quantity', 'price'
16      ];
17  
18      /**
19       * Get the product that owns the order_item.
20       */
21      public function product()
22      {
23          return $this->belongsTo('App\Models\Product', 'product_id');
24      }
25  }
26  
```

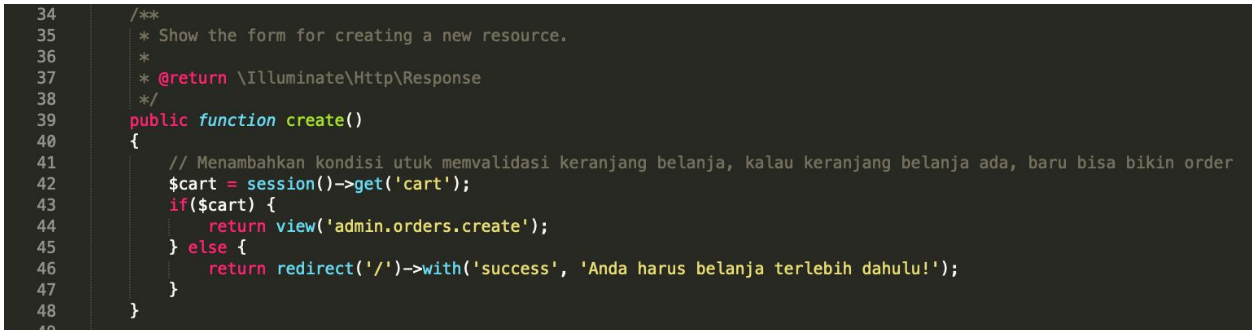
3. Edit file app/Http/Controllers/Admin/OrderController.php tambahkan use method di atas class.
   use App\Models\Order;
   use App\Models\OrderItem;

4. Buat file view baru dengan nama resources/views/admin/orders/create.blade.php, code nya seperti dibawah ini



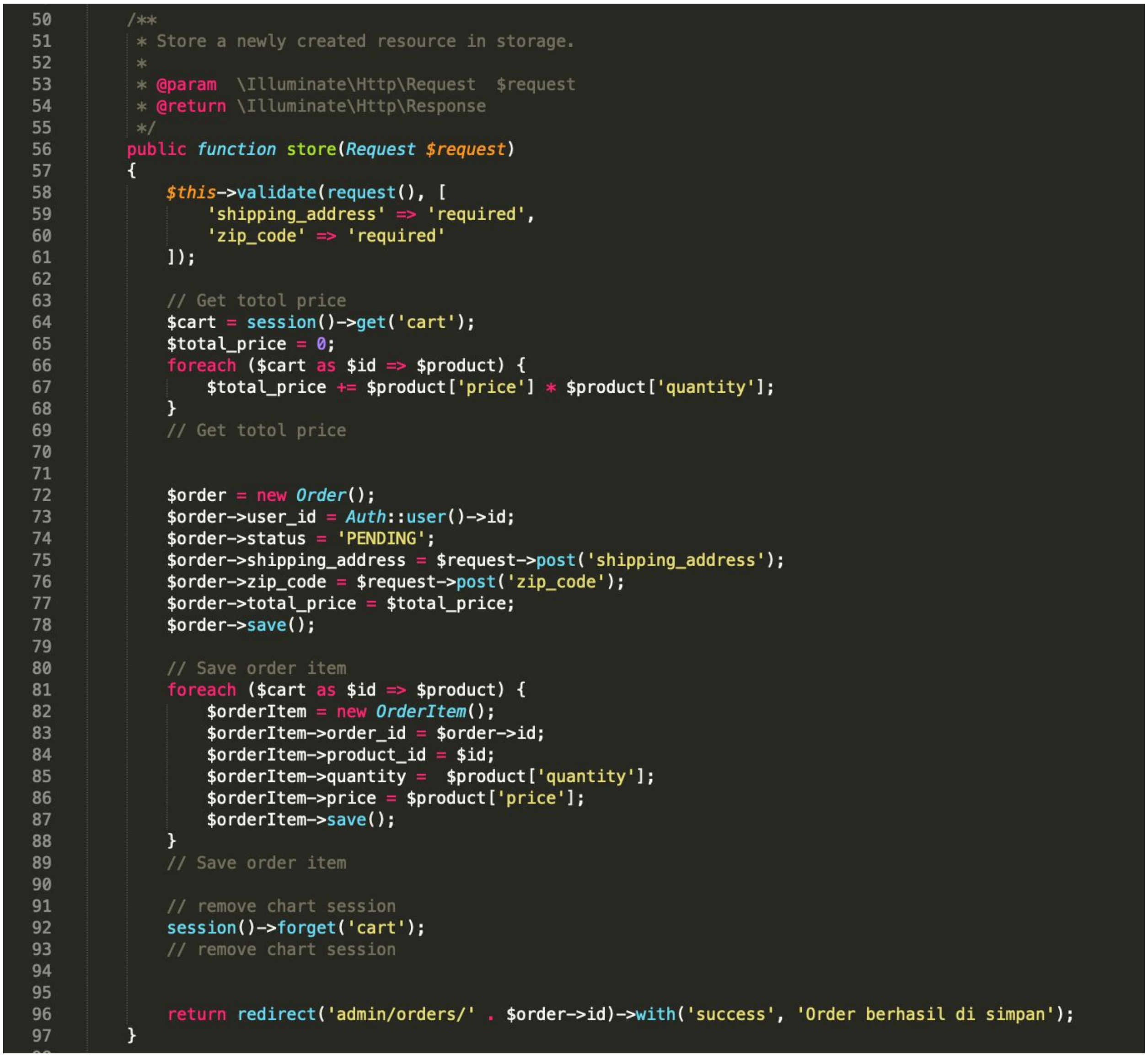
```
@extends('layouts.app')

@section('content')
  <div class="container">
    <div class="row justify-content-center">
      <div class="col">
        <h2>Manambahkan Alamat</h2>

        <br />
        @if(count($errors))
          <div class="form-group">
            <div class="alert alert-danger">
              <ul>
                @foreach($errors->all() as $error)
                    <li>{{$error}}</li>
                @endforeach
              </ul>
            </div>
          </div>
        @endif
        <br />

        <form action="{{ route('admin.orders.store') }}" method="POST">
          @csrf
          <div class="form-group">
            <label>Alamat Pengiriman</label>
            <textarea name="shipping_address" class="form-control" rows="3" placeholder="Alamat Pengiriman"></textarea>
          </div>
          <div class="form-group">
            <label>Kode Pos</label>
            <input type="number" name="zip_code" class="form-control" placeholder="Kode Pos">
          </div>
          <button type="submit" class="btn btn-primary">Simpan</button>
        </form>
      </div>
    </div>
  </div>
@endsection
```

5. Edit file app/Http/Controllers/Admin/OrderController.php method create(), menjadi seperti ini



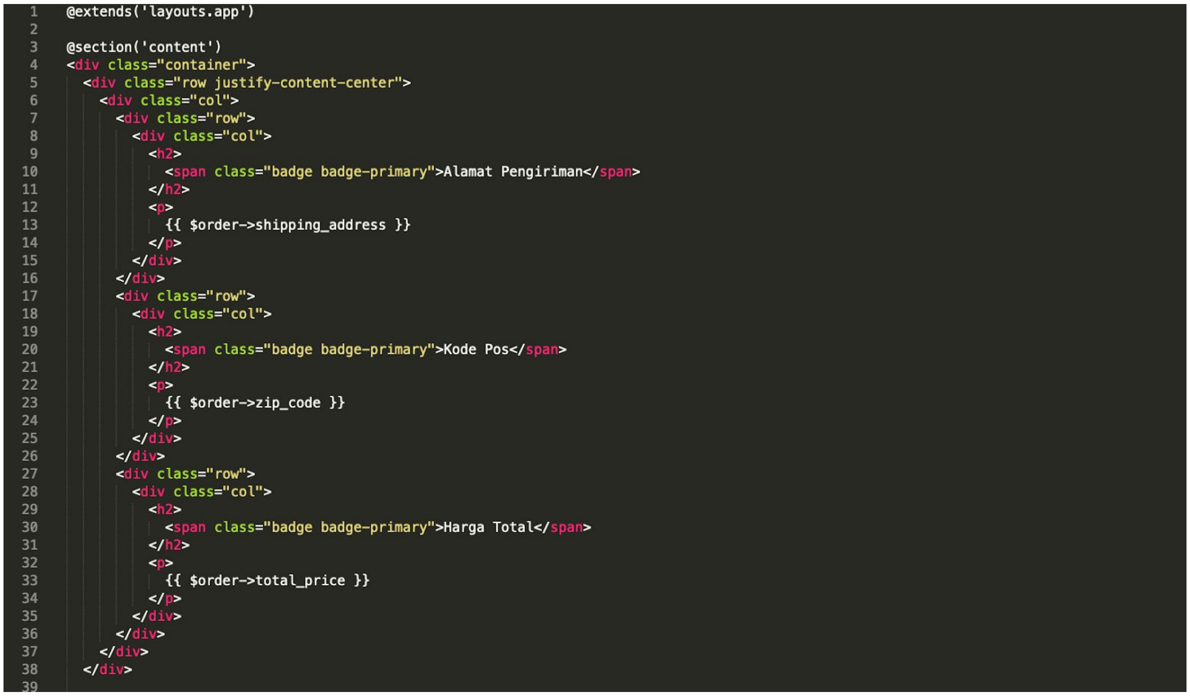
```
    /**
     * Show the form for creating a new resource.
     *
     * @return \Illuminate\Http\Response
     */
    public function create()
    {
        // Menambahkan kondisi utuk memvalidasi keranjang belanja, kalau keranjang belanja ada, baru bisa bikin order
        $cart = session()->get('cart');
        if($cart) {
            return view('admin.orders.create');
        } else {
            return redirect('/')->with('success', 'Anda harus belanja terlebih dahulu!');
        }
    }
```

6. Edit file app/Http/Controllers/Admin/OrderController.php method store(), menjadi seperti ini

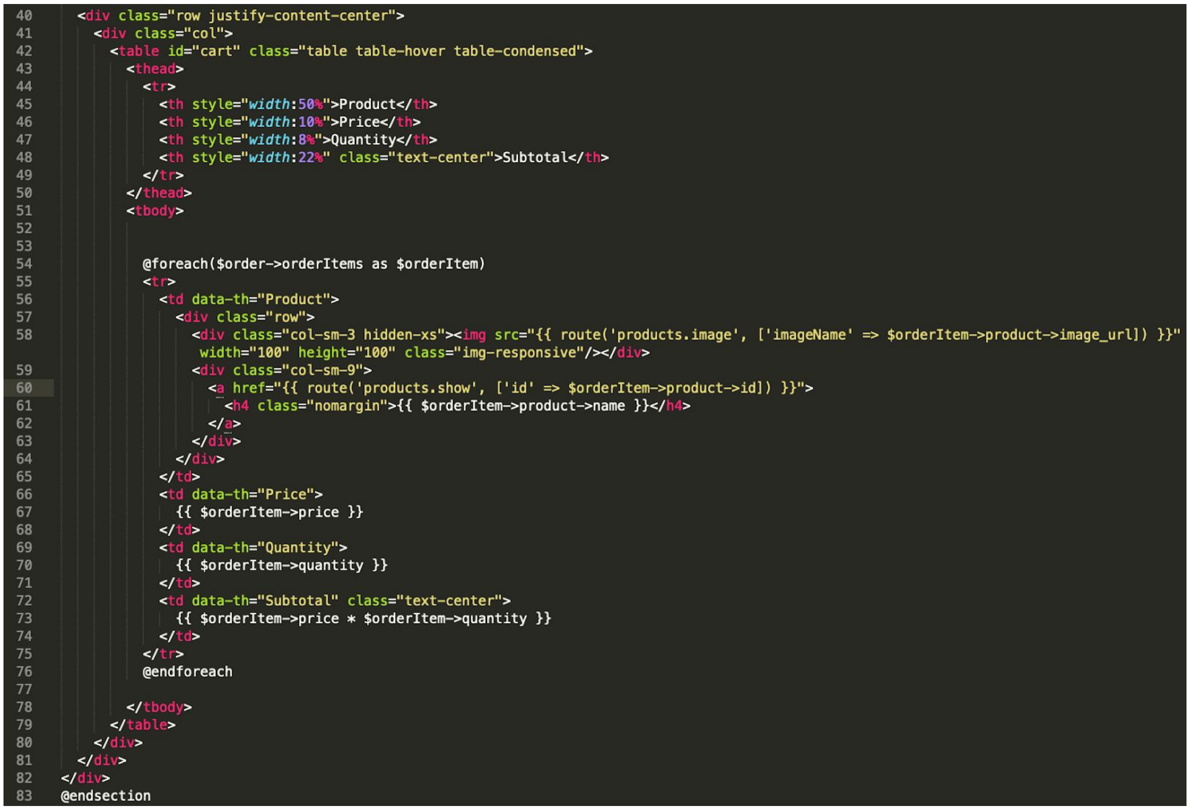


```php
    /**
     * Store a newly created resource in storage.
     *
     * @param  \Illuminate\Http\Request  $request
     * @return \Illuminate\Http\Response
     */
    public function store(Request $request)
    {
        $this->validate(request(), [
            'shipping_address' => 'required',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

        // Get totol price
        $cart = session()->get('cart');
        $total_price = 0;
        foreach ($cart as $id => $product) {
            $total_price += $product['price'] * $product['quantity'];
        }
        // Get totol price


        $order = new Order();
        $order->user_id = Auth::user()->id;
        $order->status = 'PENDING';
        $order->shipping_address = $request->post('shipping_address');
        $order->zip_code = $request->post('zip_code');
        $order->total_price = $total_price;
        $order->save();

        // Save order item
        foreach ($cart as $id => $product) {
            $orderItem = new OrderItem();
            $orderItem->order_id = $order->id;
            $orderItem->product_id = $id;
            $orderItem->quantity =  $product['quantity'];
            $orderItem->price = $product['price'];
            $orderItem->save();
        }
        // Save order item

        // remove chart session
        session()->forget('cart');
        // remove chart session


        return redirect('admin/orders/' . $order->id)->with('success', 'Order berhasil di simpan');
    }
```

7. Buat file view baru dengan nama resources/views/admin/orders/show.blade.php, code nya seperti dibawah ini

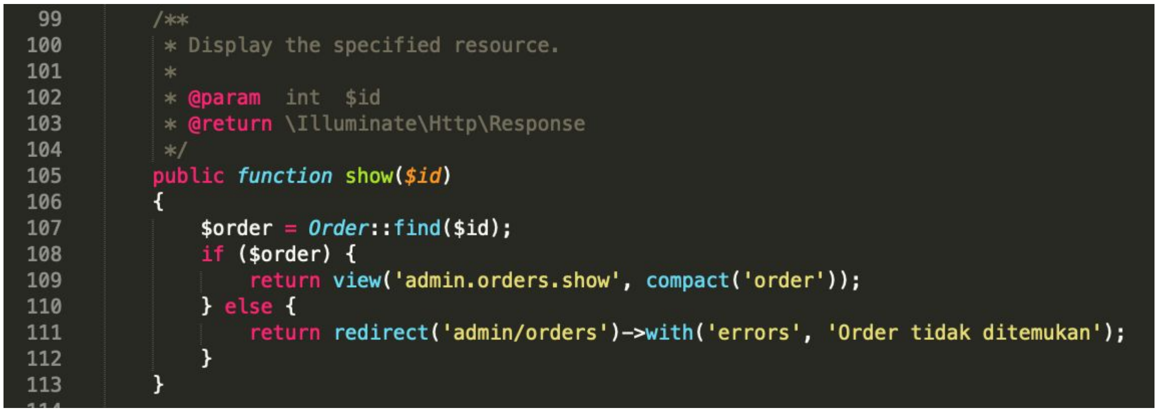


```
@extends('layouts.app')

@section('content')
<div class="container">
  <div class="row justify-content-center">
    <div class="col">
      <div class="row">
        <div class="col">
          <h2>
            <span class="badge badge-primary">Alamat Pengiriman</span>
          </h2>
          <p>
            {{ $order->shipping_address }}
          </p>
        </div>
      </div>
      <div class="row">
        <div class="col">
          <h2>
            <span class="badge badge-primary">Kode Pos</span>
          </h2>
          <p>
            {{ $order->zip_code }}
          </p>
        </div>
      </div>
      <div class="row">
        <div class="col">
          <h2>
            <span class="badge badge-primary">Harga Total</span>
          </h2>
          <p>
            {{ $order->total_price }}
          </p>
        </div>
      </div>
    </div>
  </div>

```



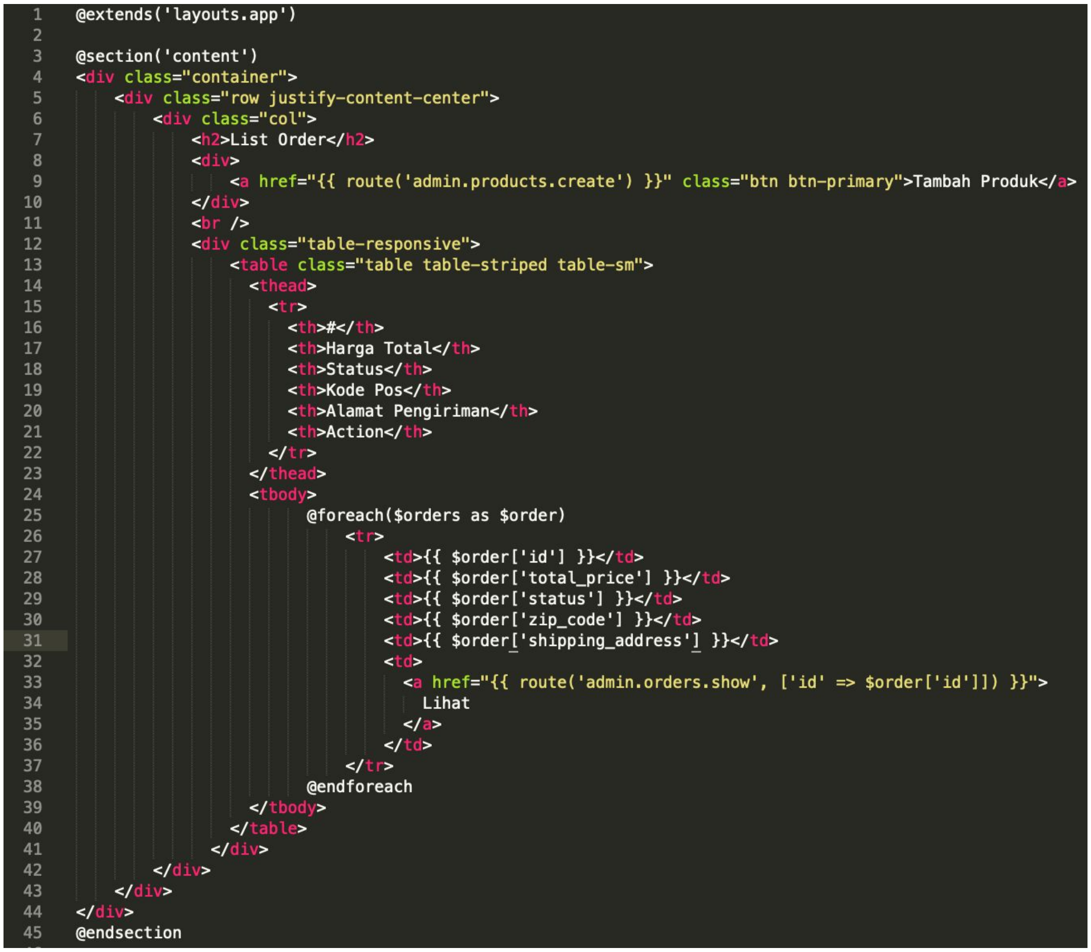
```
  <div class="row justify-content-center">
    <div class="col">
      <table id="cart" class="table table-hover table-condensed">
        <thead>
          <tr>
            <th style="width:50%">Product</th>
            <th style="width:10%">Price</th>
            <th style="width:8%">Quantity</th>
            <th style="width:22%" class="text-center">Subtotal</th>
          </tr>
        </thead>
        <tbody>


          @foreach($order->orderItems as $orderItem)
          <tr>
            <td data-th="Product">
              <div class="row">
                <div class="col-sm-3 hidden-xs"><img src="{{ route('products.image', ['imageName' => $orderItem->product->image_url]) }}"
                 width="100" height="100" class="img-responsive"/></div>
                <div class="col-sm-9">
                  <a href="{{ route('products.show', ['id' => $orderItem->product->id]) }}">
                    <h4 class="nomargin">{{ $orderItem->product->name }}</h4>
                  </a>
                </div>
              </div>
            </td>
            <td data-th="Price">
              {{ $orderItem->price }}
            </td>
            <td data-th="Quantity">
              {{ $orderItem->quantity }}
            </td>
            <td data-th="Subtotal" class="text-center">
              {{ $orderItem->price * $orderItem->quantity }}
            </td>
          </tr>
          @endforeach

        </tbody>
      </table>
    </div>
  </div>
</div>
@endsection
```

8. Edit file app/Http/Controllers/Admin/OrderController.php method show(), menjadi seperti ini



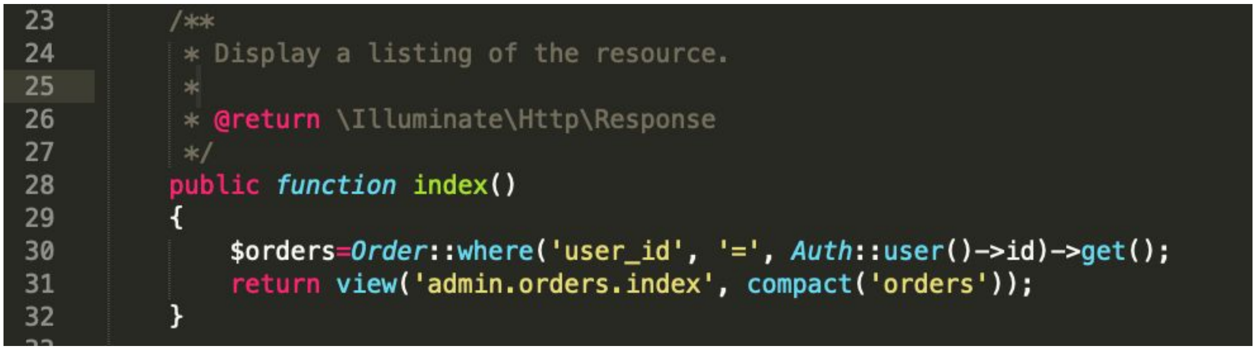
```php
    /**
     * Display the specified resource.
     *
     * @param  int  $id
     * @return \Illuminate\Http\Response
     */
    public function show($id)
    {
        $order = Order::find($id);
        if ($order) {
            return view('admin.orders.show', compact('order'));
        } else {
            return redirect('admin/orders')->with('errors', 'Order tidak ditemukan');
        }
    }
```

9. Buat file view baru dengan nama resources/views/admin/orders/index.blade.php, code nya seperti dibawah ini



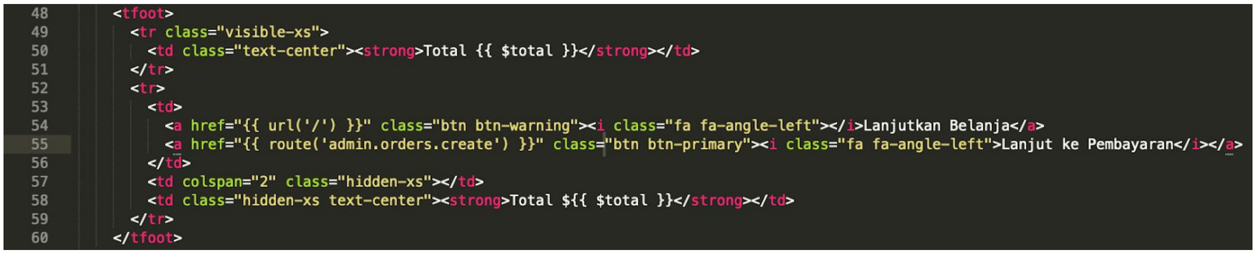
```html
@extends('layouts.app')

@section('content')
<div class="container">
    <div class="row justify-content-center">
        <div class="col">
            <h2>List Order</h2>
            <div>
                <a href="{{ route('admin.products.create') }}" class="btn btn-primary">Tambah Produk</a>
            </div>
            <br />
            <div class="table-responsive">
                <table class="table table-striped table-sm">
                    <thead>
                        <tr>
                            <th>#</th>
                            <th>Harga Total</th>
                            <th>Status</th>
                            <th>Kode Pos</th>
                            <th>Alamat Pengiriman</th>
                            <th>Action</th>
                        </tr>
                    </thead>
                    <tbody>
                        @foreach($orders as $order)
                            <tr>
                                <td>{{ $order['id'] }}</td>
                                <td>{{ $order['total_price'] }}</td>
                                <td>{{ $order['status'] }}</td>
                                <td>{{ $order['zip_code'] }}</td>
                                <td>{{ $order['shipping_address'] }}</td>
                                <td>
                                    <a href="{{ route('admin.orders.show', ['id' => $order['id']]) }}">
                                        Lihat
                                    </a>
                                </td>
                            </tr>
                        @endforeach
                    </tbody>
                </table>
            </div>
        </div>
    </div>
</div>
@endsection
```

10. Edit file app/Http/Controllers/Admin/OrderController.php method index(), menjadi seperti ini



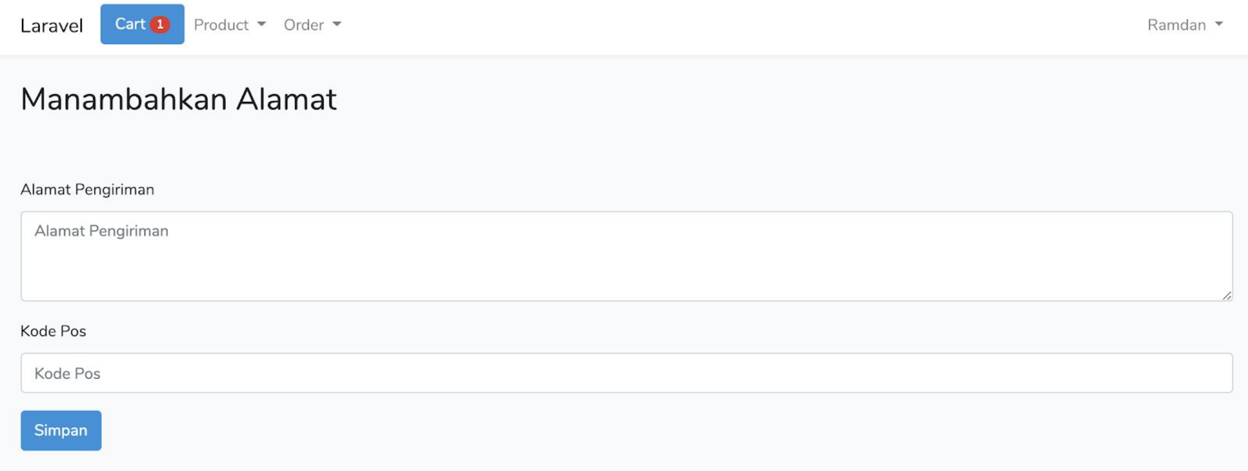
```php
    /**
     * Display a listing of the resource.
     *
     * @return \Illuminate\Http\Response
     */
    public function index()
    {
        $orders=Order::where('user_id', '=', Auth::user()->id)->get();
        return view('admin.orders.index', compact('orders'));
    }
```

11. Edit file viewresources/views/carts/index.blade.php, tambahkan code nya seperti dibawah ini (line 55)



```html
48    <tfoot>
49      <tr class="visible-xs">
50        <td class="text-center"><strong>Total {{ $total }}</strong></td>
51      </tr>
52      <tr>
53        <td>
54          <a href="{{ url('/') }}" class="btn btn-warning"><i class="fa fa-angle-left"></i>Lanjutkan Belanja</a>
55          <a href="{{ route('admin.orders.create') }}" class="btn btn-primary"><i class="fa fa-angle-left">Lanjut ke Pembayaran</i></a>
56        </td>
57        <td colspan="2" class="hidden-xs"></td>
58        <td class="hidden-xs text-center"><strong>Total ${{ $total }}</strong></td>
59      </tr>
60    </tfoot>
```

12. Sample halaman tambah order baru



Manambahkan Alamat

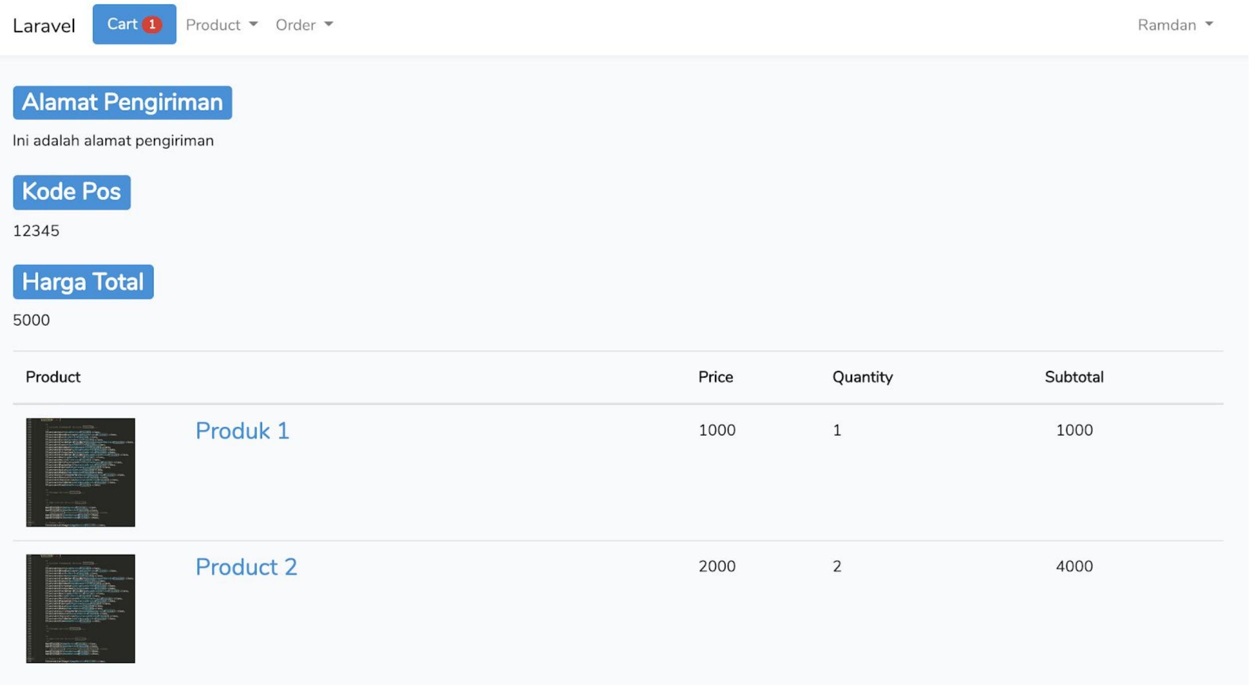
Alamat Pengiriman

Alamat Pengiriman

Kode Pos

Kode Pos

13. Sample halaman show detail order



Alamat Pengiriman

Ini adalah alamat pengiriman

Kode Pos

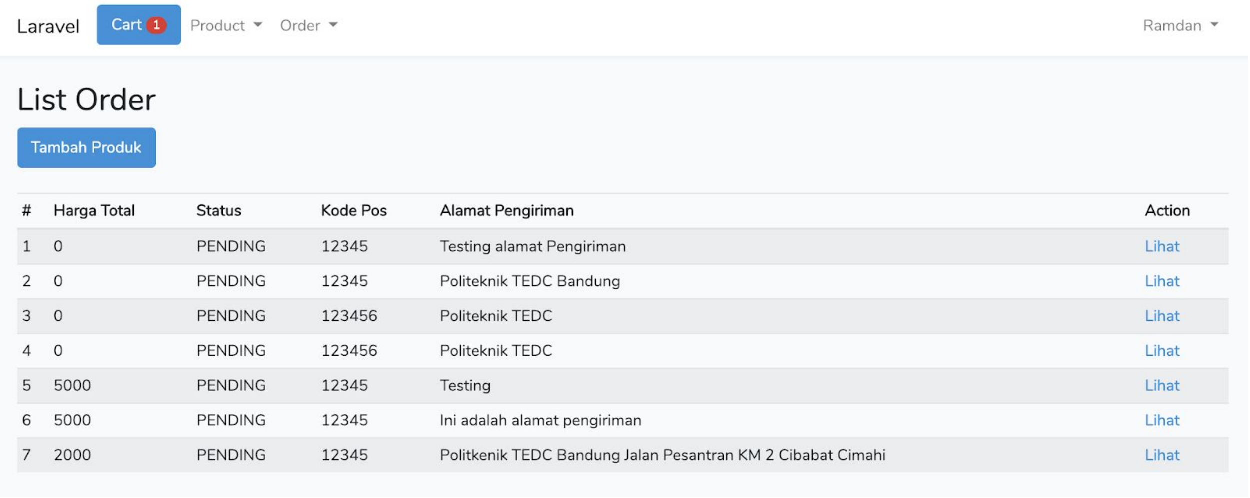
12345

Harga Total

5000

Product		Price	Quantity	Subtotal
	Produk 1	1000	1	1000
	Product 2	2000	2	4000

14. Sample halaman list order



List Order

#	Harga Total	Status	Kode Pos	Alamat Pengiriman	Action
1	0	PENDING	12345	Testing alamat Pengiriman	Lihat
2	0	PENDING	12345	Politeknik TEDC Bandung	Lihat
3	0	PENDING	123456	Politeknik TEDC	Lihat
4	0	PENDING	123456	Politeknik TEDC	Lihat
5	5000	PENDING	12345	Testing	Lihat
6	5000	PENDING	12345	Ini adalah alamat pengiriman	Lihat
7	2000	PENDING	12345	Politkenik TEDC Bandung Jalan Pesantran KM 2 Cibabat Cimahi	Lihat

15. Finish

Tantangan

1. Silahkan ubah halaman list order, new order dan detail order sesuai dengan selera anda.
2. Pisahkan input alamat (di page new order) menjadi beberapa field:
    - adddress (bisa untuk dusun, RT RW, nama jalan)
    - address_line2 (bisa untuk desa atau kelurahan)
    - district (bisa untuk kecamatan)
    - city (bisa untuk kota/kab)
    - province (bisa untuk provinsi)
    - zip_code (bisa untuk kode pos)
    - phone_number (bisa untuk nomor telephone)
3. Finish

Reference

1. https://laravel.com/docs/5.8/controllers
2. https://laravel.com/docs/5.8/views
3. https://laravel.com/docs/5.8/routing
4. https://laravel.com/docs/5.8/eloquent-relationships