

Câu 08. Xây dựng chức năng **giỏ hàng** cho ứng dụng Laravel. Một số giao diện ứng dụng như sau:

a. Trang home

The screenshot shows the homepage of a Laravel application. At the top, there's a header with a logo, the title "My Laptop Shop", and a shopping cart icon indicating 2 items. Below the header is a menu with "Home" selected. The main content area has two sections: "Menu" on the left and "Danh Sách Sản Phẩm" (Product List) on the right. The product list table has columns: STT, Mã SP, Tên Sản Phẩm, Giá SP, and Hành Động (Action). Each row contains a product (e.g., Dell 01, Dell 02, etc.) with a "Thêm giỏ hàng" (Add to Cart) button in the Hành Động column.

STT	Mã SP	Tên Sản Phẩm	Giá SP	Hành Động
1	sp001	Dell 01	1000.00	+ Thêm giỏ hàng
2	sp002	Dell 02	800.00	+ Thêm giỏ hàng
3	sp003	Dell 03	900.00	+ Thêm giỎ hàng
4	sp004	Hp 01	1100.00	+ Thêm giỎ hàng
5	sp005	Hp 02	950.00	+ Thêm giỎ hàng
6	sp006	Asus 01	770.00	+ Thêm giỎ hàng

© My Laptop Shop

b. Trang giỏ hàng

The screenshot shows the cart page of the application. At the top, there's a header with a logo, the title "My Laptop Shop", and a shopping cart icon. Below the header is a menu with "Home" selected. The main content area has two sections: "Menu" on the left and "Your Cart" on the right. The cart table has columns: Item, Item Cost, Quantity, and Item Total. It lists two items: "Dell 03" and "Hp 02", each with a quantity input field (set to 1) and a total value. At the bottom, there's a "Subtotal \$ 1,850.00" and a "Update Cart" button.

Item	Item Cost	Quantity	Item Total
Dell 03	900.00	1	900.00
Hp 02	950.00	1	950.00

Click "Update Cart" to update quantities in your cart. Enter a quantity of 0 to remove an item.

© My Laptop Shop

Gợi ý:

- **B1.** Định nghĩa lớp `app\Http\Controllers\CartController.php` xử lý các nghiệp vụ thêm sản phẩm vào giỏ hàng, cập nhật số lượng sản phẩm trên giỏ hàng, tính tổng thành tiền các sản phẩm.

Code mẫu:

```
<?php
namespace App\Http\Controllers;
use Illuminate\Http\Request;
use Illuminate\Support\Facades\DB;
```

```

use Illuminate\Support\Facades\Session;
class CartController extends Controller
{
    public function addcart($key){
        if(!empty($key)){
            $this->additemcart($key,1);
            return redirect()->route('homepage');
        }
    }

    public function updatecart(Request $request){
        $new_qty_list = $request->newqty;
        $cart = Session::get('cart');
        foreach($new_qty_list as $key => $qty):
            if($cart[$key]['qty'] != $qty):
                $this->updateitemcart($key, $qty);
            endif;
        endforeach;
        return redirect()->route('listcart');
    }

    public function additemcart($key, $quantity){
        // Create a table of products
        $cart = Session::get('cart');
        $products = [];
        $dssp = DB::table('sanphams')->get();
        if(empty($dssp)):
            foreach($dssp as $sp):
                $products[$sp->masp] = array('name' => $sp->tensp, 'cost' => $sp->gia);
            endforeach;
        endif;

        if ($quantity < 1) return redirect()->route('homepage');

        if (isset($cart[$key])) {
            $quantity += $cart[$key]['qty'];
            $this->updateitemcart($key, $quantity);
            return redirect()->route('homepage');
        }

        // Add item
        $cost = $products[$key]['cost'];
        $total = $cost * $quantity;
        $item = array(
            'name' => $products[$key]['name'],
            'cost' => $cost,
            'qty' => $quantity,
            'total' => $total
        );
        $cart[$key] = $item;
        Session::put('cart',$cart);
    }
}

```

```

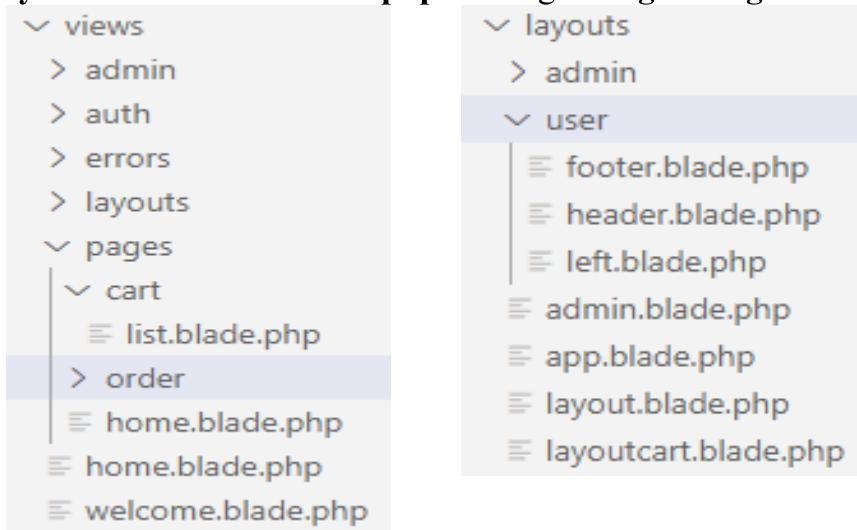
public function listcart(){
    return view('pages.cart.list',['subtotal'=>$this->getsubtotalcart()]);
}

// Update an item in the cart
public function updateitemcart($key, $quantity) {
    $quantity = (int) $quantity;
    $cart = Session::get('cart');
    if (isset($cart[$key])) {
        if ($quantity <= 0) {
            unset($cart[$key]);
            Session::put('cart',$cart);
        } else {
            $cart[$key]['qty'] = $quantity;
            $total = $cart[$key]['cost'] * $cart[$key]['qty'];
            $cart[$key]['total'] = $total;
            Session::put('cart',$cart);
        }
    }
}

// Get cart subtotal
public function getsubtotalcart () {
    $subtotal = 0;
    $cart = Session::get('cart');
    foreach ($cart as $item) {
        $subtotal += $item['total'];
    }
    $subtotal_f = number_format($subtotal, 2);
    return $subtotal_f;
}
}

```

- B2. Mở file **pages\home.blade.php** bổ sung thêm nút **Thêm giỏ hàng** và file **layouts\user\header.blade.php** bổ sung **Icon giỏ hàng** cho trang **Home** của ứng dụng.



+ File **pages\home.blade.php**

```
<style>
  table{
    margin:5px;
  }
  table, th, td{
    border:0.5px solid black;
    padding:0.5em 1em;
    border-collapse: collapse;
  }
</style>
@extends('layouts.layout')
@section('main')
<h5 class="text-primary">Danh Sách Sản Phẩm</h5>





```

+ File **layouts\user\header.blade.php**

```
<div class="container">
  <div class="row">
```

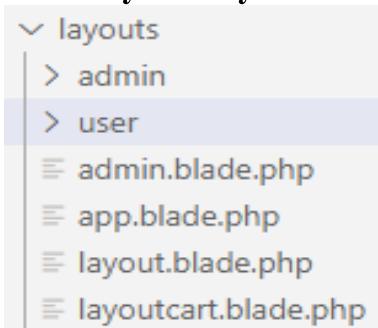
```

<div class="col-sm-4">
    <header><h4 class="text-primary">My Laptop Shop</h4></header>
</div>
<div class="col-sm-4">

</div>
<div class="col-sm-4" style="text-align: right">
    {{-- Cart --}}
    <span>
        <a href="{{ route('listcart') }}">
            <i class="fas fa-shopping-cart"></i>
        @php
            $qty = 0;
            $cart = Session::get('cart');
        @endphp
        @if(!empty($cart))
            @foreach( $cart as $key => $item )
                @php
                    $qty += $item['qty'];
                @endphp
            @endforeach
            Số lượng:{{ $qty }}
        @endif
        </a>
    </span>
    <!-- Authentication Links -->
</div>
</div>
</div>
<hr>

```

- B3. Tạo file **layouts\layoutcart.blade.php** hiển thị phần **header** riêng cho trang giỏ hàng và file **pages\cart\list.blade.php** hiển thị thông tin sản phẩm trên giỏ hàng.
- + File **layouts\layoutcart.blade.php**



```

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <meta http-equiv="X-UA-Compatible" content="ie=edge">
    <title>Trang Home</title>

```

```

<!-- Use CDN -->
<link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.4.1/css/bootstrap.min.css">
<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/5.15.2/css/all.min.css">
<link href="https://cdn.jsdelivr.net/npm/summernote@0.8.18/dist/summernote-bs4.min.css" rel="stylesheet">
<link rel="stylesheet" href="{{ asset('public/user/css/bootstrap.min.css') }}>
<link rel="stylesheet" href="{{ asset('public/user/css/style.css') }}>
</head>
<body>
<div class="container mt-5 mb-5">
<div class="row">
<div class="col-sm-12">
<div class="container">
<div class="row">
<div class="col-sm-12">
<header><h4 class="text-primary">My Laptop Shop</h4></header>
</div>
</div>
<hr>
</div>
</div>
<div class="row">
<div class="col-sm-3">
@include('layouts.user.left')
</div>
<div class="col-sm-9">
@yield('main')
</div>
</div>
<div class="row">
<div class="col-sm-12">
@include('layouts.user.footer')
</div>
</div>
</div>
</body>
</html>
<!-- Use CDN -->
<script src="https://code.jquery.com/jquery-3.5.1.min.js" crossorigin="anonymous"></script>
<script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.0/dist/umd/popper.min.js"></script>
<script src="https://stackpath.bootstrapcdn.com/bootstrap/4.4.1/js/bootstrap.min.js"></script>

```

+ File pages\cart\list.blade.php

```

@extends('layouts.layoutcart')
@section('main')
<h4 class="text-primary">Your Cart</h4>
@if((empty(session('cart')) || count(session('cart')) == 0))
<p>There are no items in your cart.</p>
@else

```

```

@php
$cart = Session::get('cart');
@endphp
<form action="{!! route('updatecart') !!}" method="post" class="d-inline">
@csrf
<table class="table">
<tr>
<th>Item</th>
<th>Item Cost</th>
<th>Quantity</th>
<th>Item Total</th>
</tr>
@if(!empty($cart))
@foreach($cart as $key => $item)
@php
$cost = number_format($item['cost'], 2);
$total = number_format($item['total'], 2);
@endphp
<tr>
<td>
{{ $item['name'] }}
</td>
<td>
{{ $cost }}
</td>
<td>
<input type="text"
name="newqty[{{ $key }}]"
value="{{ $item['qty'] }}"
</td>
<td>
{{ $total }}
</td>
</tr>
@endforeach @endif
<tr>
<td colspan="3" style="text-align: right;"><b>Subtotal</b></td>
<td colspan="1">$ {{ $subtotal }}</td>
</tr>
<tr>
<td colspan="4" style="text-align: right;">
<input type="submit" value="Update Cart">
</td>
</tr>
</table>
</form>
<p>Click "Update Cart" to update quantities in your cart. Enter a quantity of 0 to remove an item.
</p>
@endif
@endsection

```

- **B4.** Định nghĩa một số định tuyến (**route**) đến các chức năng của giỏ hàng.

//Home page

```
Route::get('/', function () {
    $dssp = DB::table('sanphams')->get();
    return view('pages.home',[ 'dssp'=>$dssp]);
})->name('homepage');
```

//Cart page

```
Route::post('/addcart/{id}', 'CartController@addcart')->name('addcart');
Route::post('/updatecart', 'CartController@updatecart')->name('updatecart');
Route::get('/listcart', 'CartController@listcart')->name('listcart');
```