E-Commerce Platform (Single Vendor) – Laravel Project Documentation

Developer Info:

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Role: Junior Backend Developer
Project Type: Graduation project from Laravel course

Project Overview:

This is a simple e-commerce platform built using **Laravel 12** and the **Breeze** package. The system supports both user and admin roles and includes main features such as product management, shopping cart, favorites, checkout, and payment integration.

Technologies Used:

- Laravel 12
- PHP 8+
- MySQL (via XAMPP)
- Node.js
- Composer
- Postman (for API testing)
- Kashier Payment Gateway
- HTML / Blade / CSS
- JavaScript

Project Setup:

1. Installed Laravel 12 with Breeze auth scaffolding.
2. Created database schema using **ERD**, then implemented it using Laravel **migrations**.
3. Customized Breeze Blade templates to match the project UI.
4. Integrated template files (HTML/CSS) into Laravel views.

Admin Panel:

The admin dashboard allows full management of:

- Users
- Products
- Inventory
- Customer Orders

Admin can view and update order status.

User Features:

- **Home Page**: Display all products with discount badges if available.
- **Category Pages**: Filter products by category.
- **Favorites**: Logged-in users can add/remove products.
- **Cart**: Add items without login, update quantity or remove items.
- **Checkout**: Requires login to complete order.
  - Enter shipping info
  - Choose payment method (cash or card)
  - If card is selected, user is redirected to **Kashier**
- **Order History**: View all previous orders and their details.

Authentication:

- One login/register form.
- After login:
  - Admin users go to dashboard
  - Normal users go to main website

Payment Integration:

Payment is done using **Kashier**:

- If user selects **cash**, order is saved and redirected to success page.
- If user selects **card**, user is redirected to Kashier iframe and then returned to success page after payment.

API Features:

Some parts of the platform were converted to API using Laravel API routes:

- **Authentication** (register, login, logout)
- **Cart endpoints**
- **Checkout flow**
- **Home products list**

APIs were tested using **Postman**.

Deployment:

The project runs locally on XAMPP. Deployment to live server was planned but not completed.

Database Overview:

Main tables:

- users
- products
- categories
- favorites
- cart_items
- orders
- order_items
- addresses
- payments

Testing:

Manual testing was done for:

- Guest and user flows
- Admin product/order management
- Cart and checkout functionality
- Payment redirection with Kashier
- API endpoints via Postman

Notes:

- Not all features were converted to API due to time limitations.
- The focus was on core functionalities that reflect real e-commerce flow.
- The goal was to apply what I learned in the Laravel course and gain experience in Backend development.