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COURSE: WEB-TECHNOLOGY AND INTERNET

PROJECT: E-COMMERCE SPRING WEB-BASED PROJECT

INTRODUCTION

Hello sir!!! I'm thrilled to connect with you and dive into the exciting spring-base project of E-Commerce. I've had the incredible opportunity to gather a wealth of experience and knowledge while working on this E-commerce Spring-based project.

i.

The purpose of this E-Commerce project is meant to support mainly the user (Client) and administrator. The client can come and check the available products according to their categories and cart any if interested and then shop, but for shop instead of getting the receipt he/she will receive an Email confirming and expressing the gratitude of shopping from our platform.

Under the shop the user can also search and sort according to categories.

This project also supports the admin, where he will be prompted for two main roles, first, is to register the Category, and the Second is to register the product after assigning them the category that have been registered. The admin also is the one to perform all CRUD operations on both product and categories.

The scope

Key features:

i.   **Client Registration and authentication**
ii.   **Product/Categories management (CRUD operations)**
iii.   **Shopping and Cart Functionality**
iv.   **User and admin dashboards**
v.   **Integration of Spring Security for Role-Based Access**
vi.   **Integration with OAuth2 for Google login**

The project Features

1. ## Login and Logout
   Admin: [Email: admin@gmail.com, password: 123456]
   Client: [Email: create any, password: create any]
   For login also the project support login with Gmail credential using Google AOuth2

2. ## Management
   An Admin can manage all products and categories with CRUD operations on each

3. ## Authentication and Authentication
   Secure login with authentication
   Admin and user Roles with specific permissions

4. ## Image Upload
   Upload image upon the products registration.

5. ## Email Communication
   The project is supposed to support the client to receive the confirmation email after the purchase
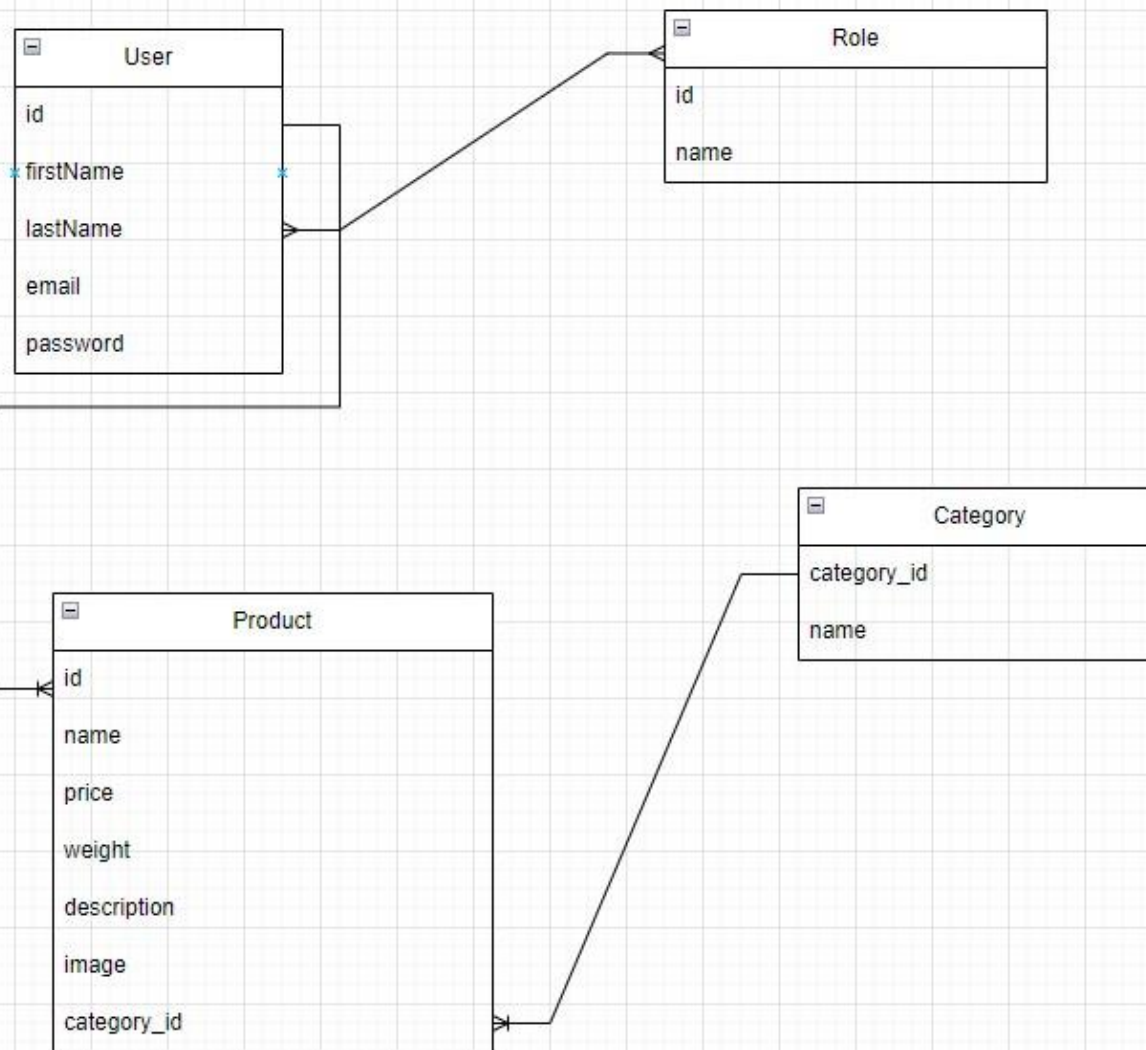
6. ## Search and filtering
   The project is built on convenient manner enabling the client to search the product or filter based on categories.

Resources

TOOLS AND TECHNOLOGIES

i. **Spring boot**
ii. **Thymrleaf for HTML templating**
iii. **PostgreSQL Database**
iv. **Maven for Dependency Management**
v. **For IDEA (I have used IntelliJ)**
vi. **Google OAuth2 for Authentication**

DATABASE SCHEMAS

User

id
* firstName
lastName
email
password

Role

id
name

Product

id
name
price
weight
description
image
category_id

Category

category_id
name

THE USER DOCUMENTATION

For more clarification under this stage am going to share the very step by step screenshots demonstrating how the project works.

1.

This E-Commerce runs Under port:8080 but after hosting it is running on e-commerce-web-8aku.onrender.com

The home Page displays as below, even when you are not logged in you can check the available products by navigating to SHOP button, but can't do anything without register and log in.

E-COMMERCE

This E-Commerce project supports both clients and admins. Clients create accounts to access product categories and listings. The admin account (Email: admin@gmail.com, password: 123456) has client privileges, but accessing "/admin" reveals admin functionalities. Admins can manage everything through this route. Ensure a secure implementation and use a user-friendly interface. For email, it is sent once the client hits the **Pay** button after adding a product to the cart.

Thank you!!!!

2.

After the project is running the user can login or if not registered can register

LOGIN
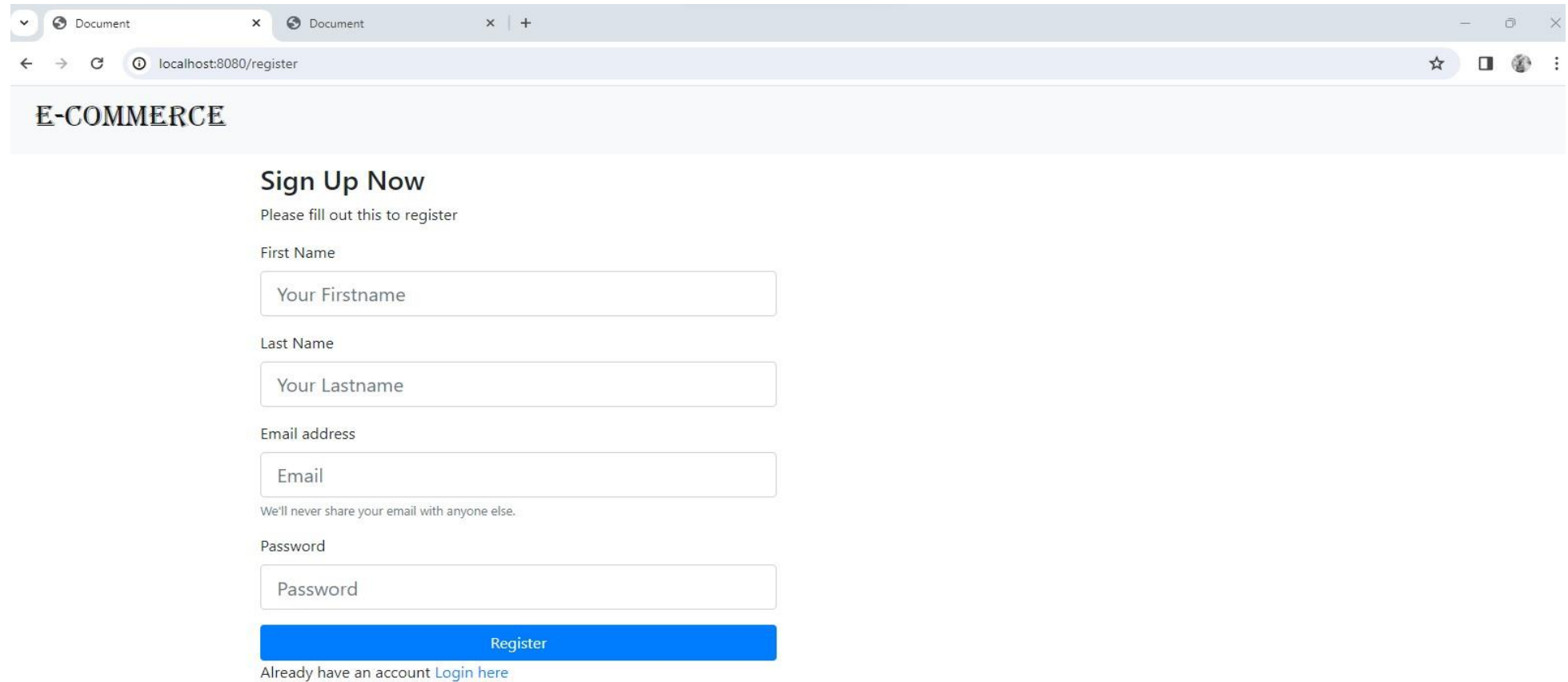
for login, USER can choose to create an account to be able to login or choose to login with Google Account.

REGISTER

For

hhhhh

After this, allow me to demonstrate what an Admin is allowed to do so that it will be easier after the user has logged in and see what is available.

REMARK: for an admin to login (E-MAIL: admin@gmail.com, Password: 123456), after that you can open another browser's tab and navigate to admin route

Here is after the Damin has logged in
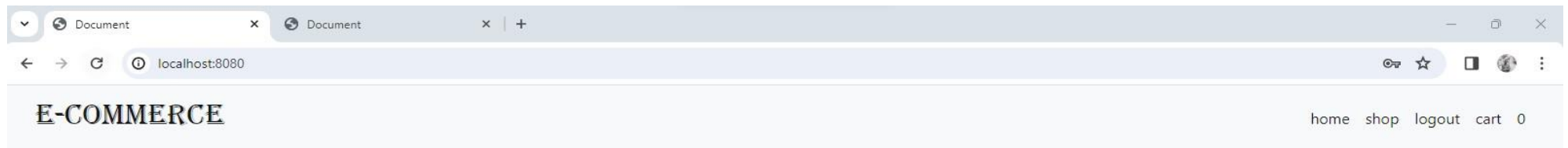
This E-Commerce project supports both clients and admins. Clients create accounts to access product categories and listings. The admin account (Email: admin@gmail.com, password: 123456) has client privileges, but accessing "/admin" reveals admin functionalities. Admins can manage everything through this route. Ensure a secure implementation and use a user-friendly interface. For email, it is sent once the client hits the **Pay** button after adding a product to the cart.

Thank you!!!!

Here it is.
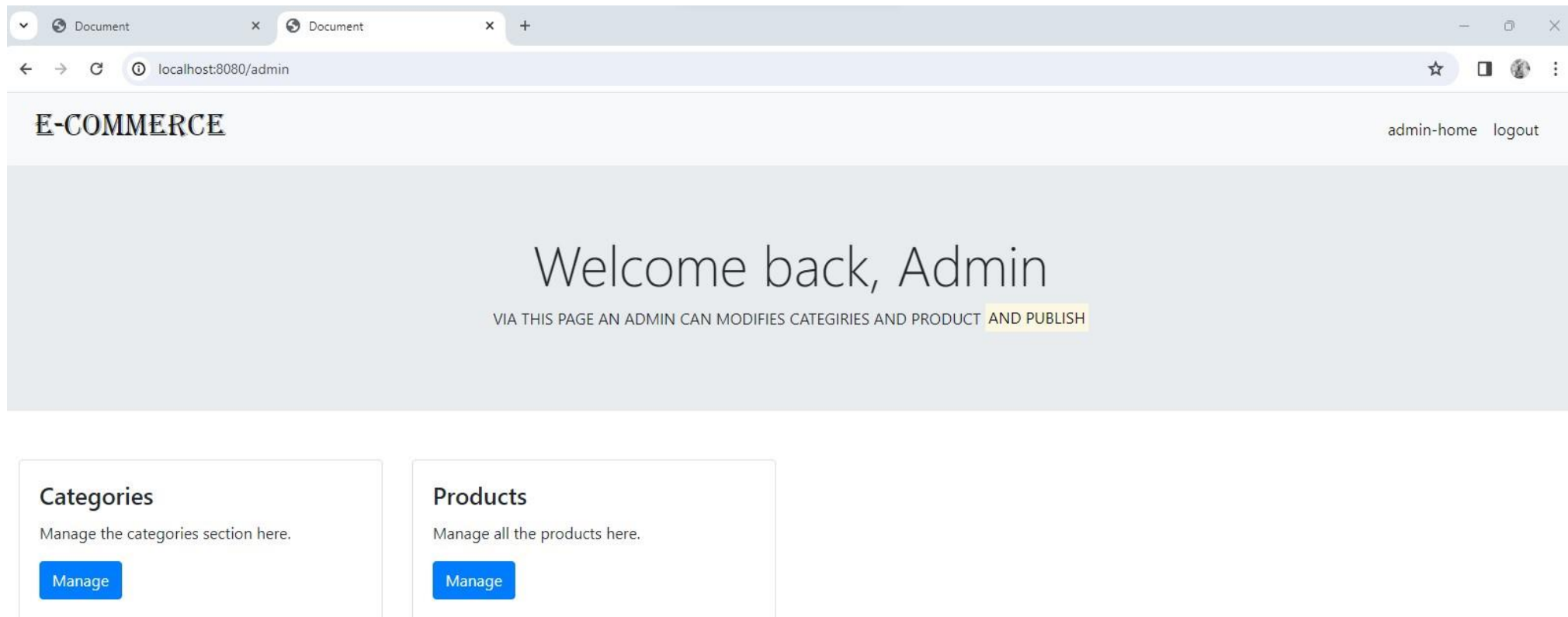
After this, an admin can add the CATEGORY FOR PRODUCT (CRUD), and also add PRODUCT BASED ON THE ATEGORY.

Here is THE CATEGORIES I've added

E-COMMERCE

Add Category

| SN	Category Name	Delete	Update
1	Cakes	Delete	Update
2	pets	Delete	Update

Here the PRODUCTS I've added
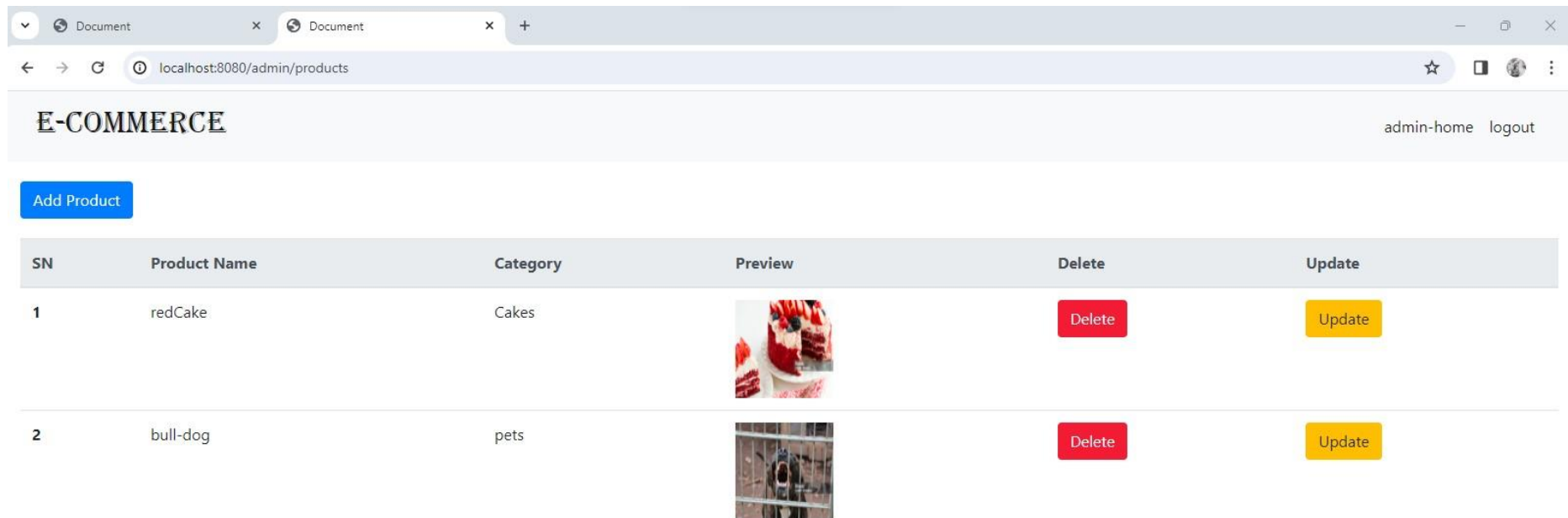
After the Admin have published everything now the user (CLIENT), can see every product and be able to cart it and buy it.

The user can SEARCH AND FIRTER UNDER this route (/shop).

For filtering. I've filtered based on categories where based in category the client can have only products registered under that specific category.
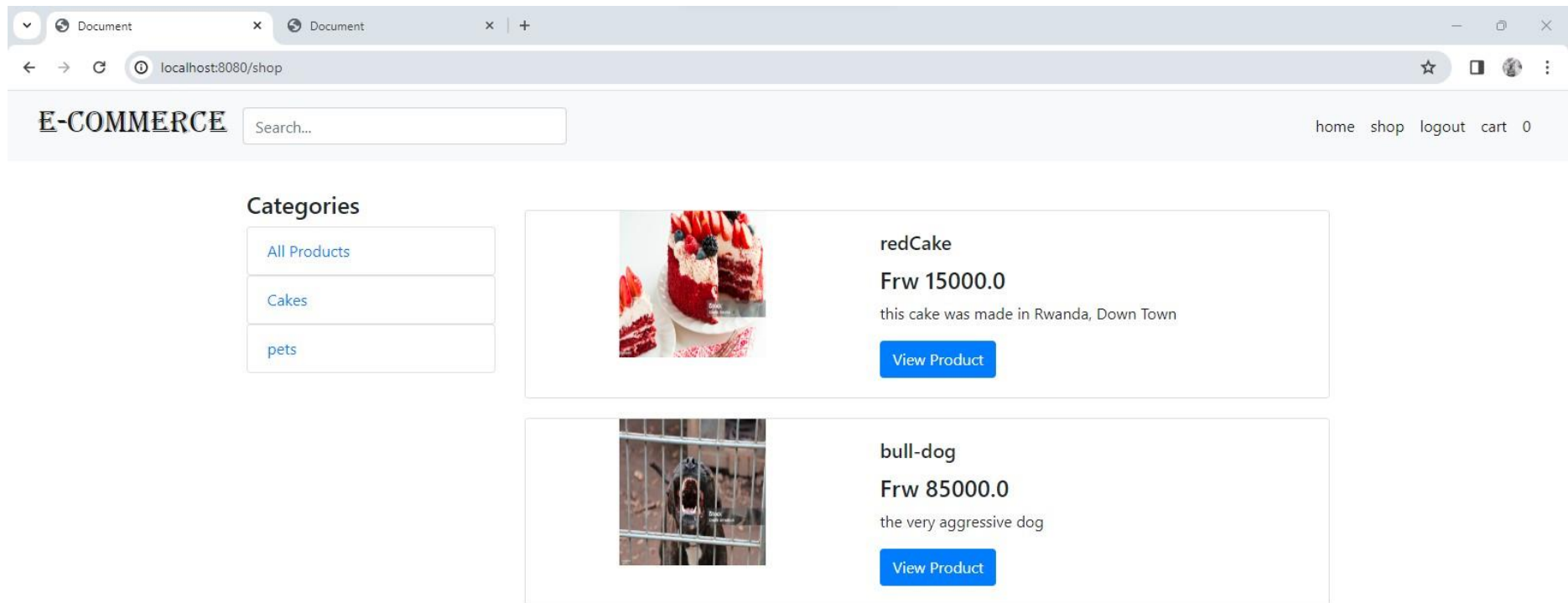
User can view the product and if interested he can add it to CART

ADDED TO CART
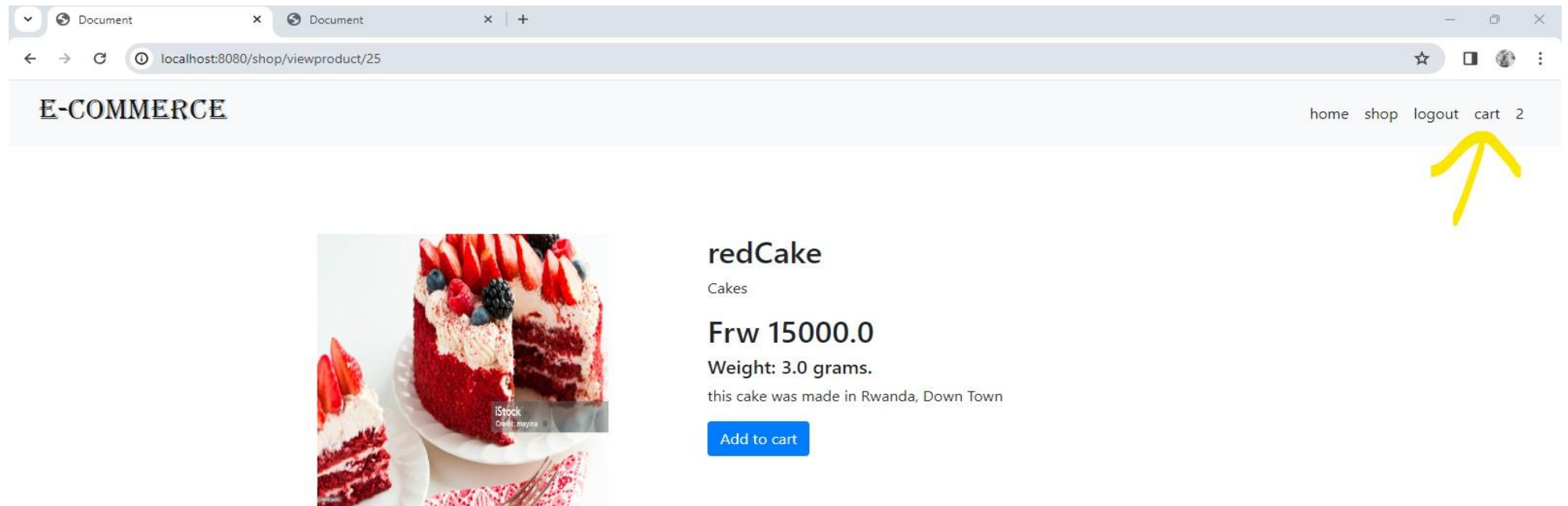
If navigate to cart, you can find everything chosen and he /she can remove some products or choose to proceed to the payment

By proceeding to check out the user can pay, but for this project if the user hits the payment button, he will receive an email confirming his/ her purchase

THANK YOU!!!!!!!