Document Title: FINAL PROJECT DOCUMENTATION

Project Name :	Online Medecine Store (PHARMACY CONSEIL)
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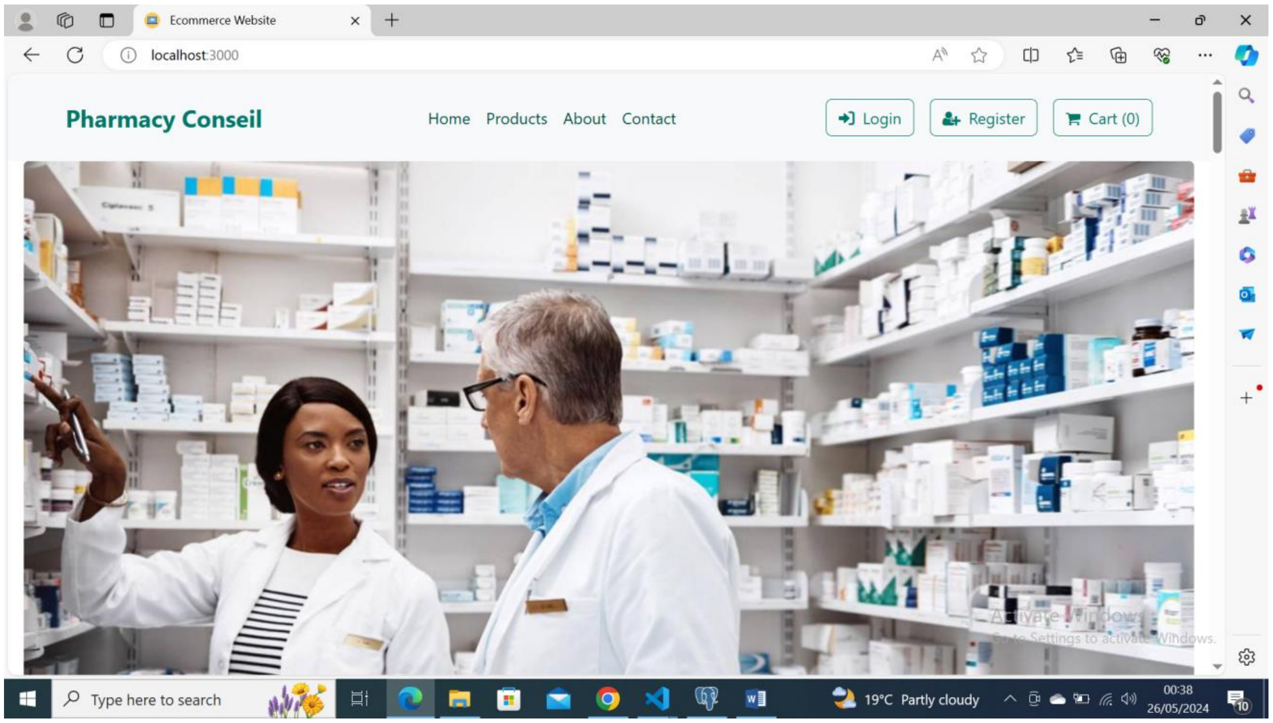
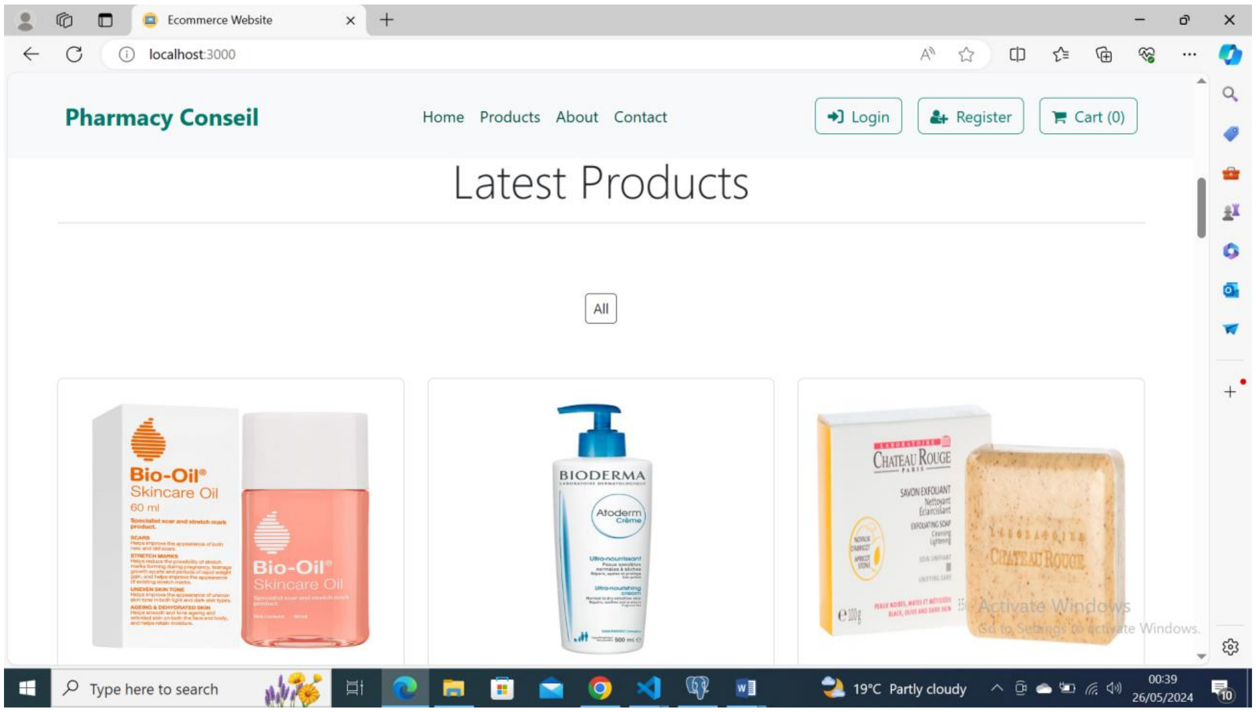
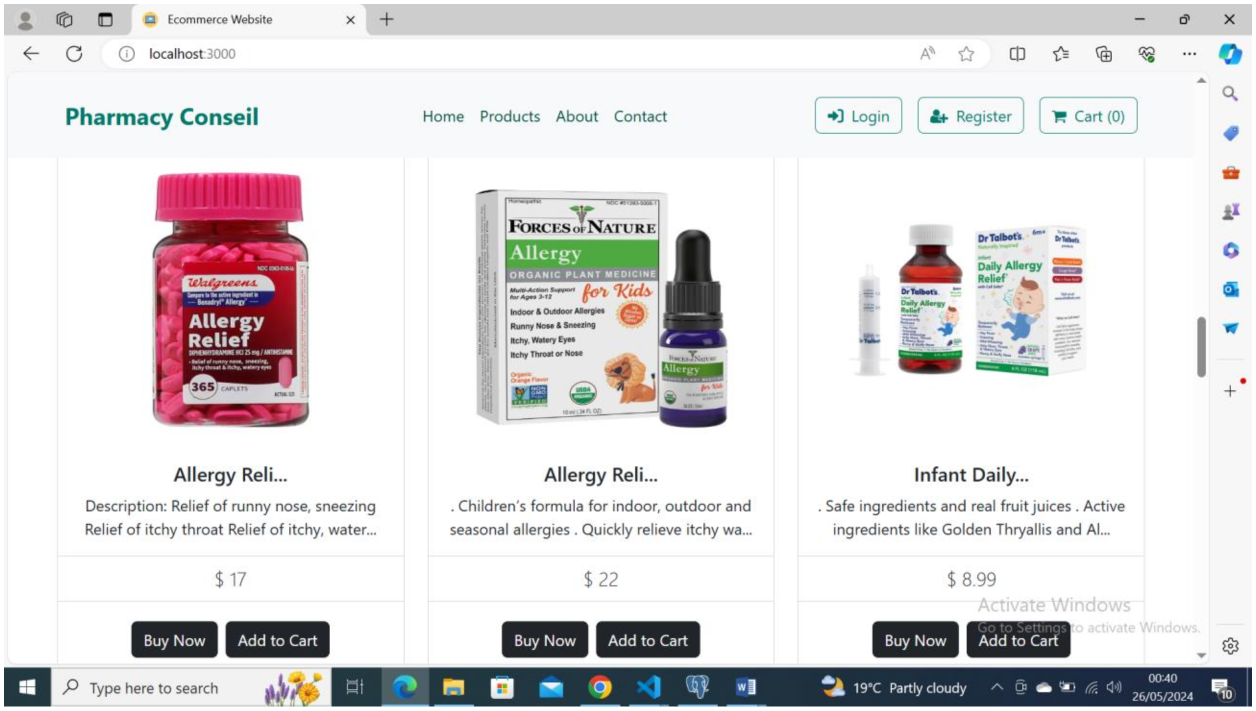
A Brief Description

Pharmacy Conseil is an online medicine store developed using Spring Boot and React JS. The system is designed to meet various functional requirements including database creation, domain models, user interface, user authentication and authorization, data handling, notifications, real-time updates, search and filtering, and security. This documentation covers the codebase, API, and user manuals.







Allergy Reli...

Description: Relief of runny nose, sneezing Relief of itchy throat Relief of itchy, water...

$ 17

Buy Now Add to Cart

Allergy Reli...

. Children's formula for indoor, outdoor and seasonal allergies . Quickly relieve itchy wa...

$ 22

Buy Now Add to Cart

Infant Daily...

. Safe ingredients and real fruit juices . Active ingredients like Golden Thryallis and Al...

$ 8.99

Buy Now Add to Cart

Problem Statement:

Many individuals face challenges accessing essential medicines and healthcare products, often due to time constraints, mobility issues, or limited availability of pharmacies in their area.

Proposed Solution:

Pharmacy Conseil addresses this issue by providing an online platform where customers can conveniently purchase medicines and healthcare products from the comfort of their homes, ensuring easy access to essential healthcare items regardless of location or circumstance.

Codebase Documentation

➔ This use a Client - Server Architecture

1. Project Structure

Backend (Spring Boot)

src/main/java/com/FinalExam/pharmacy: Contains the main application files.

PharmacyApplication.java: Main class to run the Spring Boot application.

controller/: Contains REST controllers for handling HTTP requests.

model/: Contains domain models corresponding to database tables.

repository/: Contains Spring Data JPA repositories for database operations.

service/: Contains service classes implementing business logic.

security/: Contains security configurations and JWT implementation.

Frontend (React JS)

src/: Contains the main React application files.

components/: Contains reusable UI components.

pages/: Contains page components representing different views.

services/: Contains services for making API calls.

context/: Contains context providers for state management.

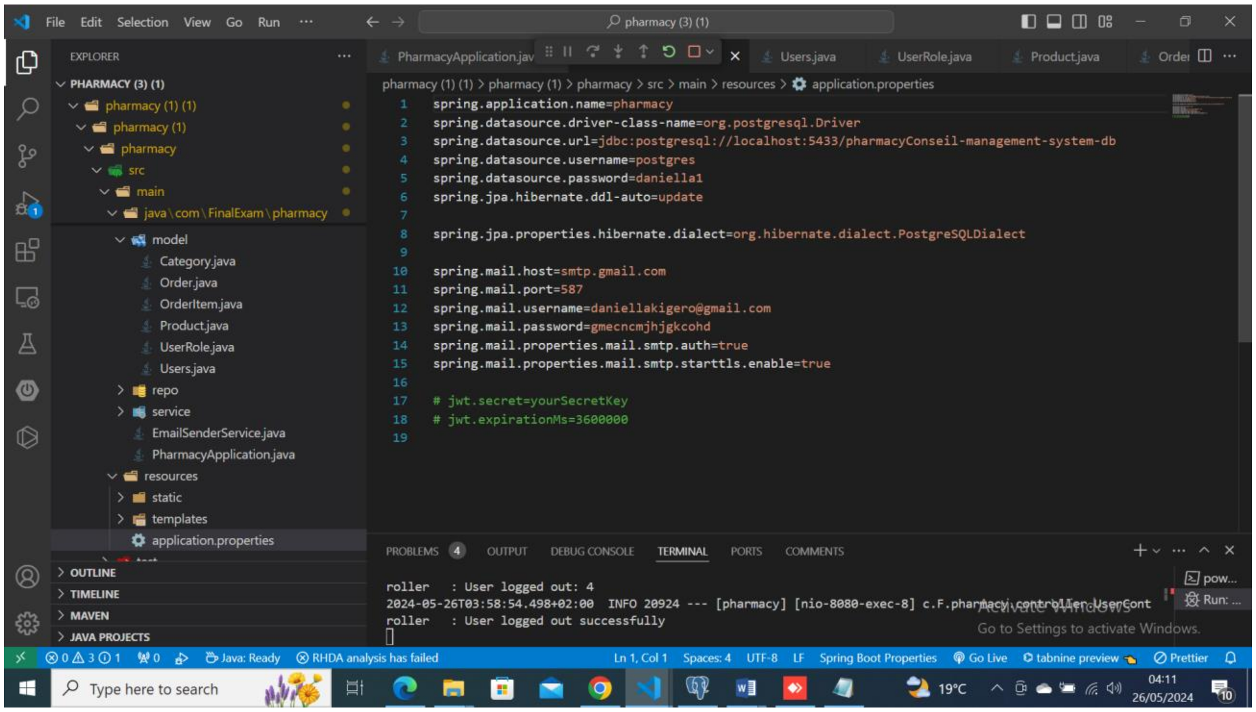
App.js: Main application component.

index.js: Entry point of the React application.

2. Database

Database Configuration

Configured to use PostgreSQL. The database connection settings are specified in the **application.properties** file:



```
spring.application.name=pharmacy
spring.datasource.driver-class-name=org.postgresql.Driver
spring.datasource.url=jdbc:postgresql://localhost:5433/pharmacyConseil-management-system-db
spring.datasource.username=postgres
spring.datasource.password=daniella1
spring.jpa.hibernate.ddl-auto=update

spring.jpa.properties.hibernate.dialect=org.hibernate.dialect.PostgreSQLDialect

spring.mail.host=smtp.gmail.com
spring.mail.port=587
spring.mail.username=daniellakigero@gmail.com
spring.mail.password=gmecncmjhjgkcohd
spring.mail.properties.mail.smtp.auth=true
spring.mail.properties.mail.smtp.starttls.enable=true

# jwt.secret=yourSecretKey
# jwt.expirationMs=3600000
```

```
roller   : User logged out: 4
2024-05-26T03:58:54.498+02:00  INFO 20924 --- [pharmacy] [nio-8080-exec-8] c.F.pharmacy.controller.UserCont
roller   : User logged out successfully
```

Domain Models

Cart: Represents a shopping cart that holds the products a customer has selected for purchase.

OrderItem: Represents an individual item in an order, containing details such as the product, quantity, and price.

User: Represents a user in the system, including customers and administrators. It typically contains information like name, email, address, and login credentials.

UserRole: Represents a role for access control, defining the permissions and privileges associated with different user types (e.g., customer, admin).

Product: Represents a medicine product, including details like name, description, price, stock availability, and category.

Order: Represents a customer order, containing information such as order date, total cost, shipping address, and order status.

Category: Represents different categories of products, allowing for better organization and browsing of the product catalog (e.g., Nutrition, Skin Care, Personal Care).

3. API Documentation

Here is one among others:

⇨ **Product API**

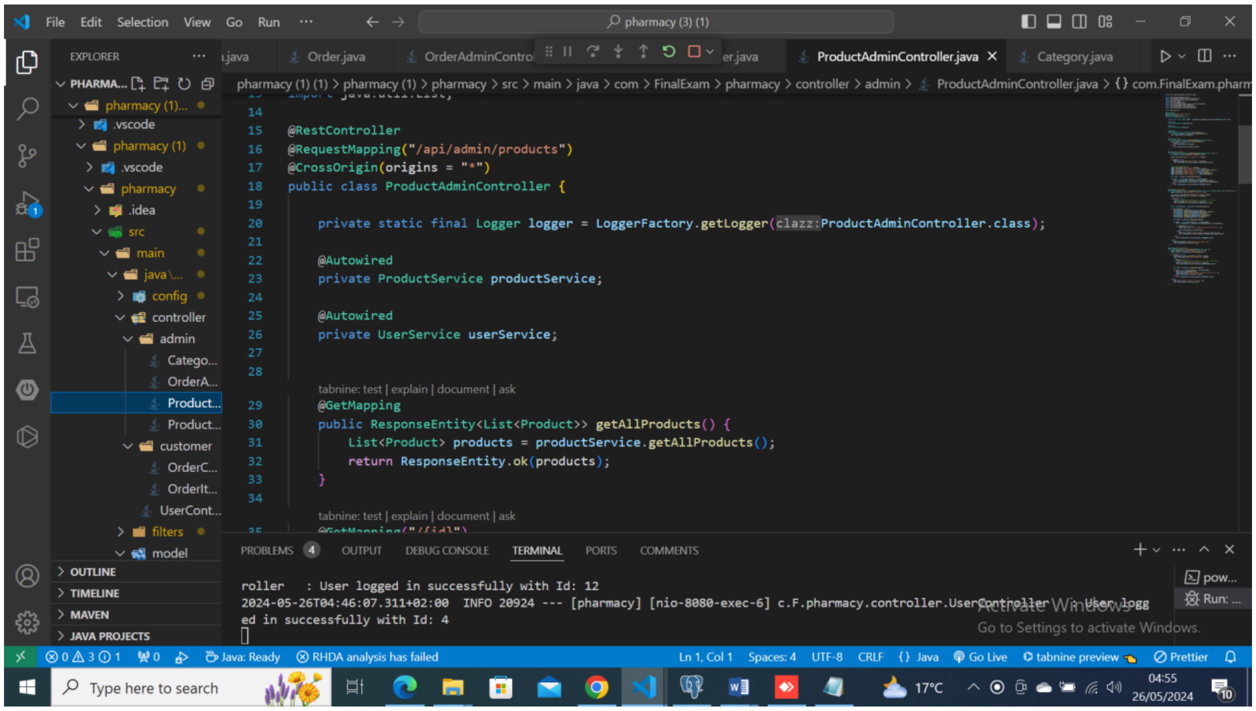
GET /api/admin/products: Get all products.

POST /api/admin/products/create: Add a new product.

PUT /api/admin/products/update/{id}: Update an existing product.

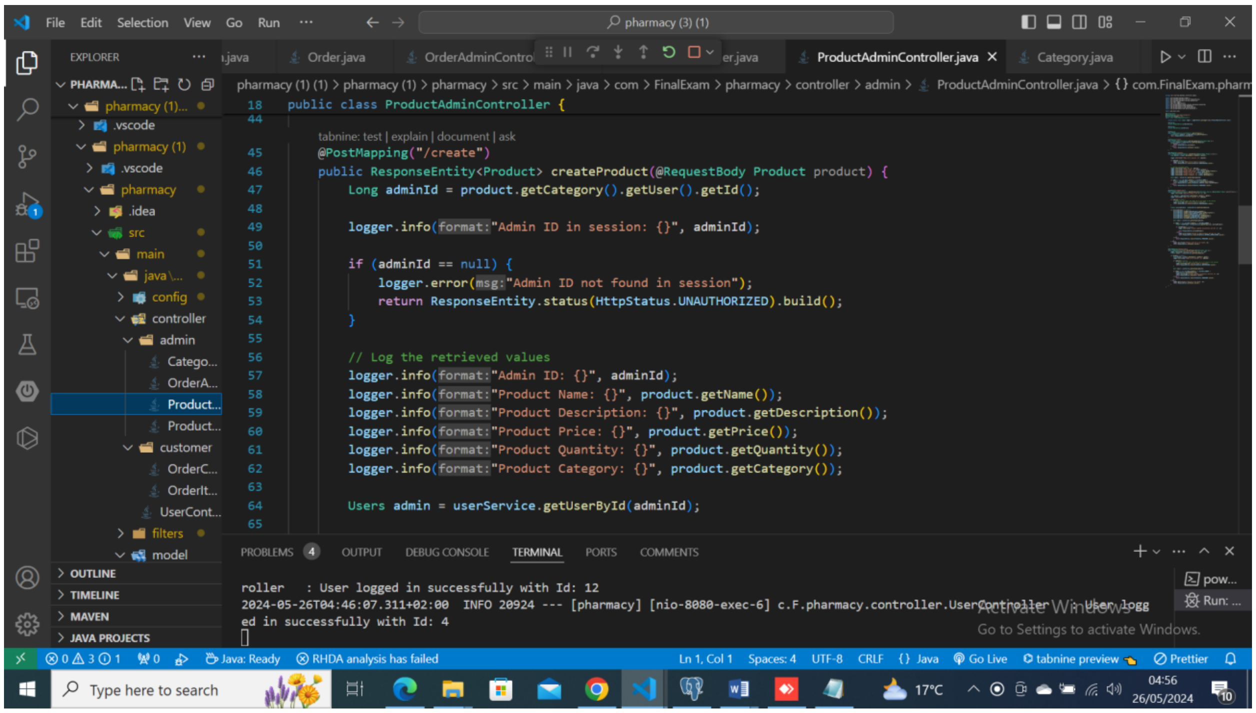
DELETE /api/admin/products/delete/{id}: Delete a product.

➔Back-end :



```java
@RestController
@RequestMapping("/api/admin/products")
@CrossOrigin(origins = "*")
public class ProductAdminController {

    private static final Logger logger = LoggerFactory.getLogger(clazz:ProductAdminController.class);

    @Autowired
    private ProductService productService;

    @Autowired
    private UserService userService;


    @GetMapping
    public ResponseEntity<List<Product>> getAllProducts() {
        List<Product> products = productService.getAllProducts();
        return ResponseEntity.ok(products);
    }
```

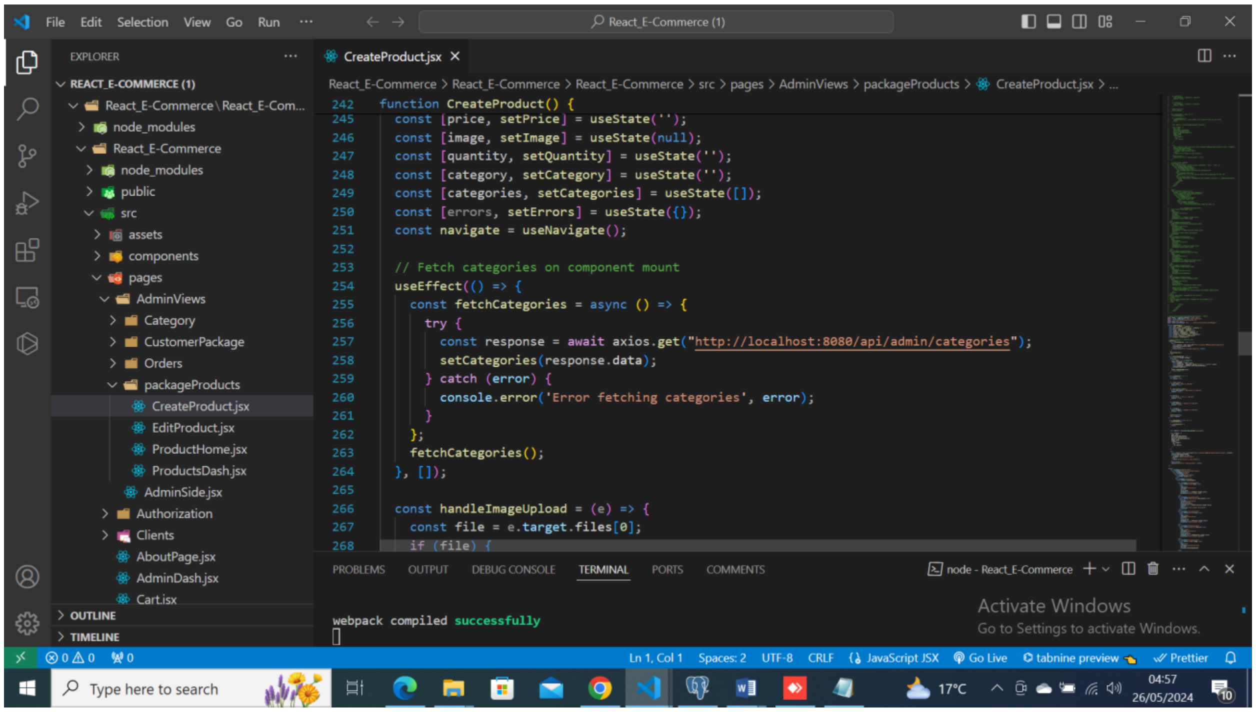
```
roller   : User logged in successfully with Id: 12
2024-05-26T04:46:07.311+02:00  INFO 20924 --- [pharmacy] [nio-8080-exec-6] c.F.pharmacy.controller.UserController : User logg
ed in successfully with Id: 4
```



```java
public class ProductAdminController {

    @PostMapping("/create")
    public ResponseEntity<Product> createProduct(@RequestBody Product product) {
        Long adminId = product.getCategory().getUser().getId();

        logger.info(format:"Admin ID in session: {}", adminId);

        if (adminId == null) {
            logger.error(msg:"Admin ID not found in session");
            return ResponseEntity.status(HttpStatus.UNAUTHORIZED).build();
        }

        // Log the retrieved values
        logger.info(format:"Admin ID: {}", adminId);
        logger.info(format:"Product Name: {}", product.getName());
        logger.info(format:"Product Description: {}", product.getDescription());
        logger.info(format:"Product Price: {}", product.getPrice());
        logger.info(format:"Product Quantity: {}", product.getQuantity());
        logger.info(format:"Product Category: {}", product.getCategory());

        Users admin = userService.getUserById(adminId);

```

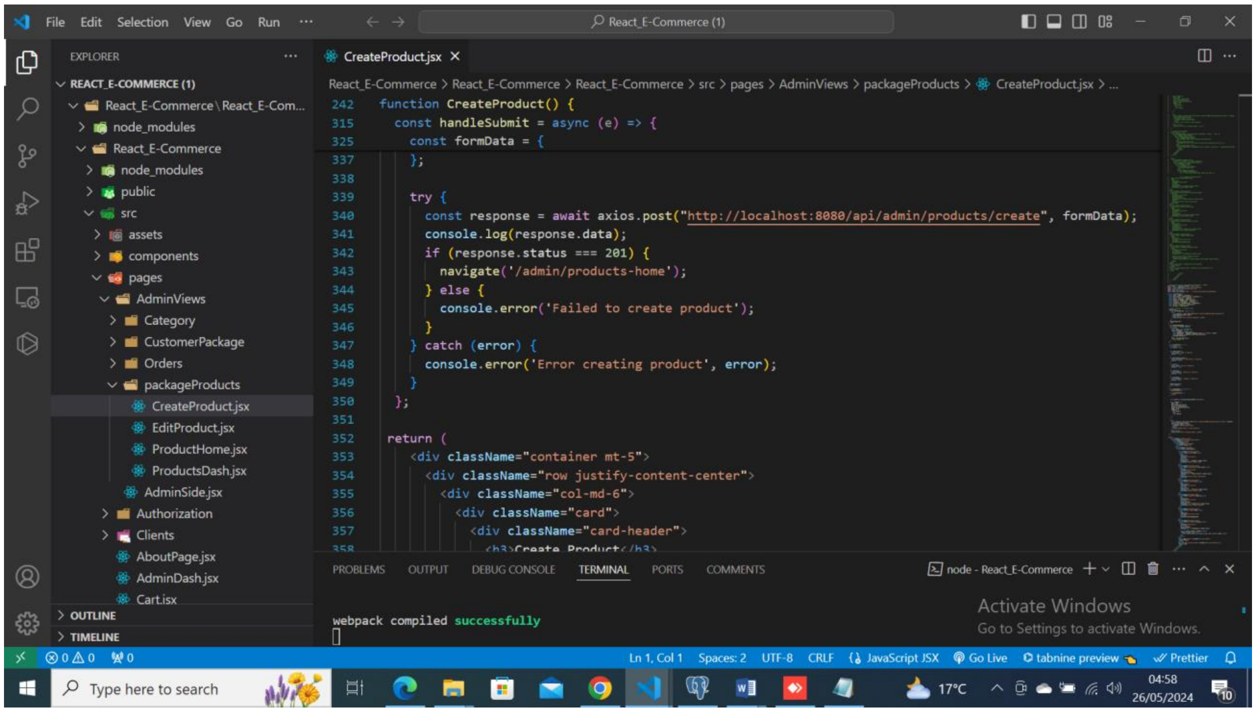
```
roller    : User logged in successfully with Id: 12
2024-05-26T04:46:07.311+02:00  INFO 20924 --- [pharmacy] [nio-8080-exec-6] c.F.pharmacy.controller.UserController : User logg
ed in successfully with Id: 4
```

⇨ **Front-End:**



```jsx
function CreateProduct() {
  const [price, setPrice] = useState('');
  const [image, setImage] = useState(null);
  const [quantity, setQuantity] = useState('');
  const [category, setCategory] = useState('');
  const [categories, setCategories] = useState([]);
  const [errors, setErrors] = useState({});
  const navigate = useNavigate();

  // Fetch categories on component mount
  useEffect(() => {
    const fetchCategories = async () => {
      try {
        const response = await axios.get("http://localhost:8080/api/admin/categories");
        setCategories(response.data);
      } catch (error) {
        console.error('Error fetching categories', error);
      }
    };
    fetchCategories();
  }, []);

  const handleImageUpload = (e) => {
    const file = e.target.files[0];
    if (file) {
```

```
webpack compiled successfully
```



```
function CreateProduct() {
  const handleSubmit = async (e) => {
    const formData = {
    };

    try {
      const response = await axios.post("http://localhost:8080/api/admin/products/create", formData);
      console.log(response.data);
      if (response.status === 201) {
        navigate('/admin/products-home');
      } else {
        console.error('Failed to create product');
      }
    } catch (error) {
      console.error('Error creating product', error);
    }
  };

 return (
    <div className="container mt-5">
      <div className="row justify-content-center">
        <div className="col-md-6">
          <div className="card">
            <div className="card-header">
              <h3>Create Product</h3>
```

```
webpack compiled successfully
```

User Manuals

User Manual for Pharmacy Conseil

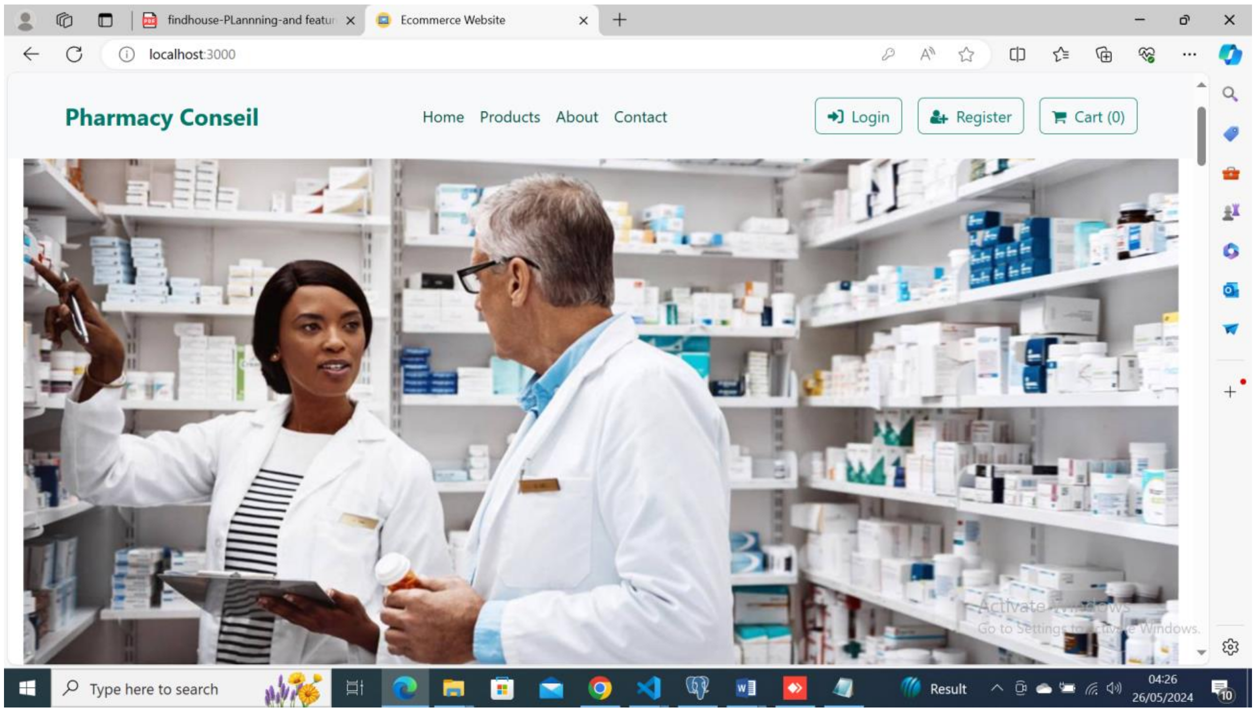
1. Getting Started

System Requirements

A modern web browser (Chrome, Firefox, Safari, Edge).

Accessing the Application

Open your web browser and navigate to the Pharmacy Conseil website.



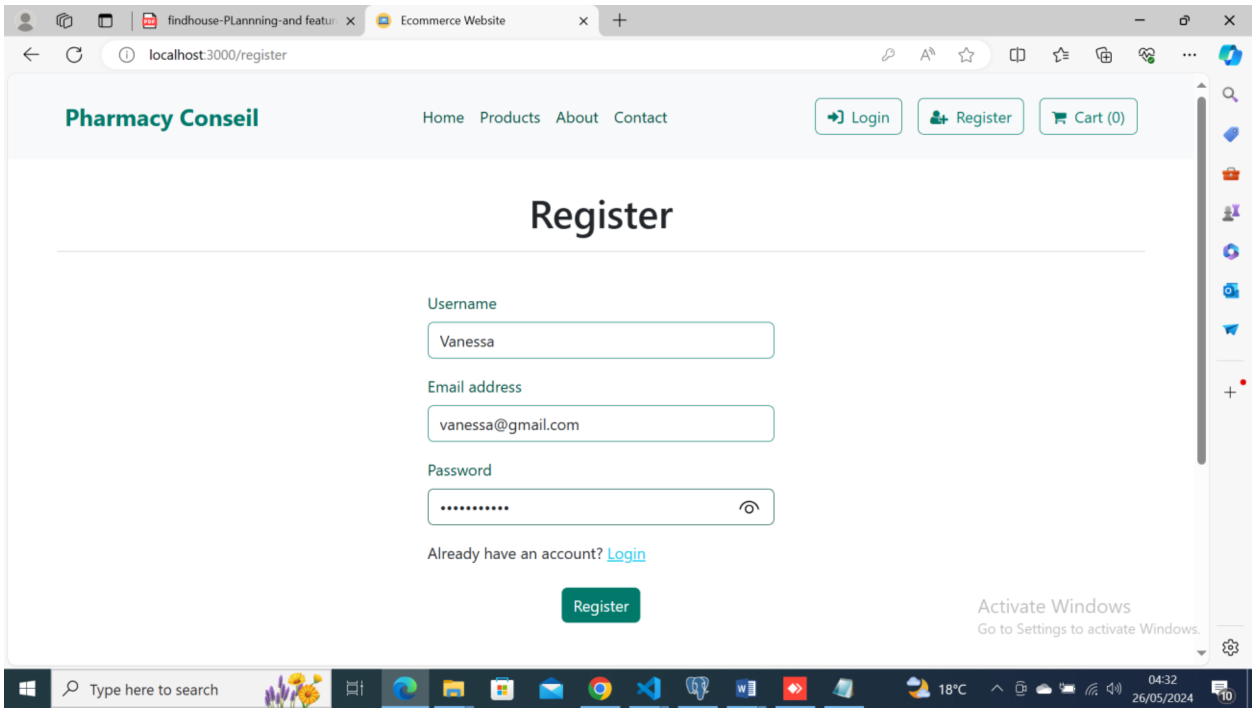
2. User Registration and Login

Registering a New Account

Click on the "Register" link.

Fill out the registration form with your username, password, and other required information.

Click "Register" to create your account.



Pharmacy Conseil

Home Products About Contact

Login Register Cart (0)

Register

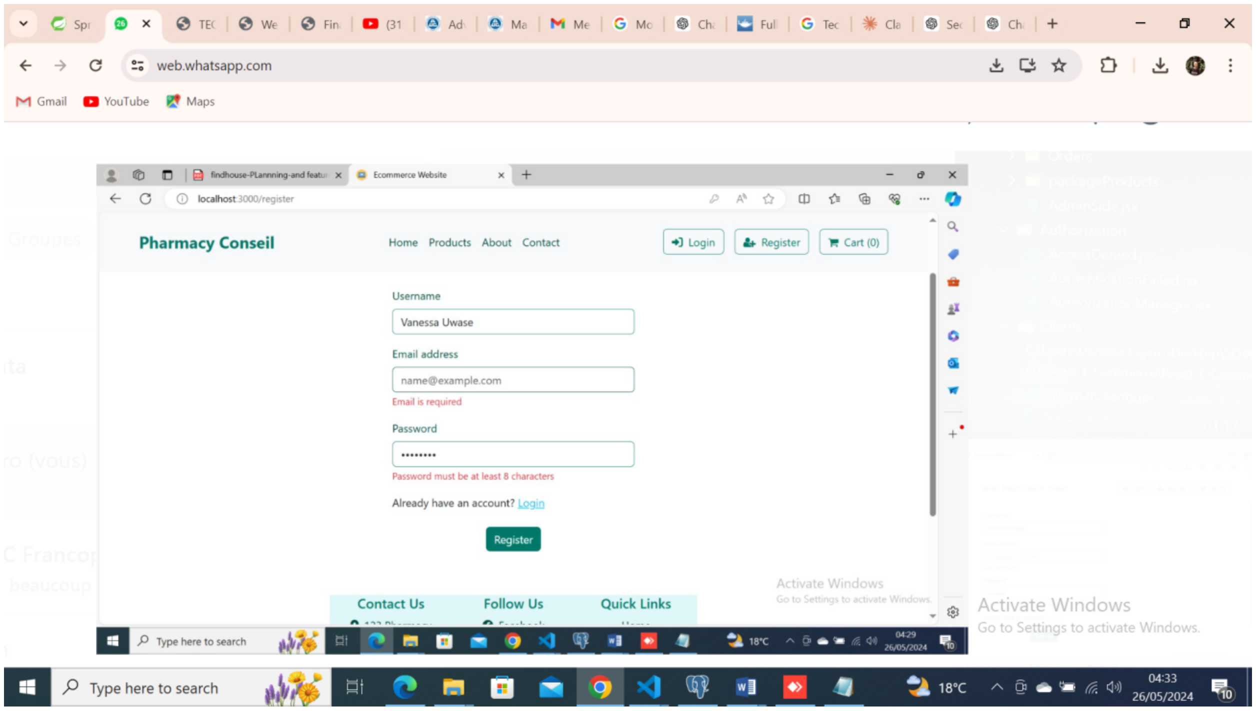
Username: Vanessa

Email address: vanessa@gmail.com

Password: ••••••••••••

Already have an account? Login

Register



Pharmacy Conseil

Home Products About Contact

Login Register Cart (0)

Username: Vanessa Uwase

Email address: name@example.com

Email is required

Password: ••••••••

Password must be at least 8 characters

Already have an account? Login

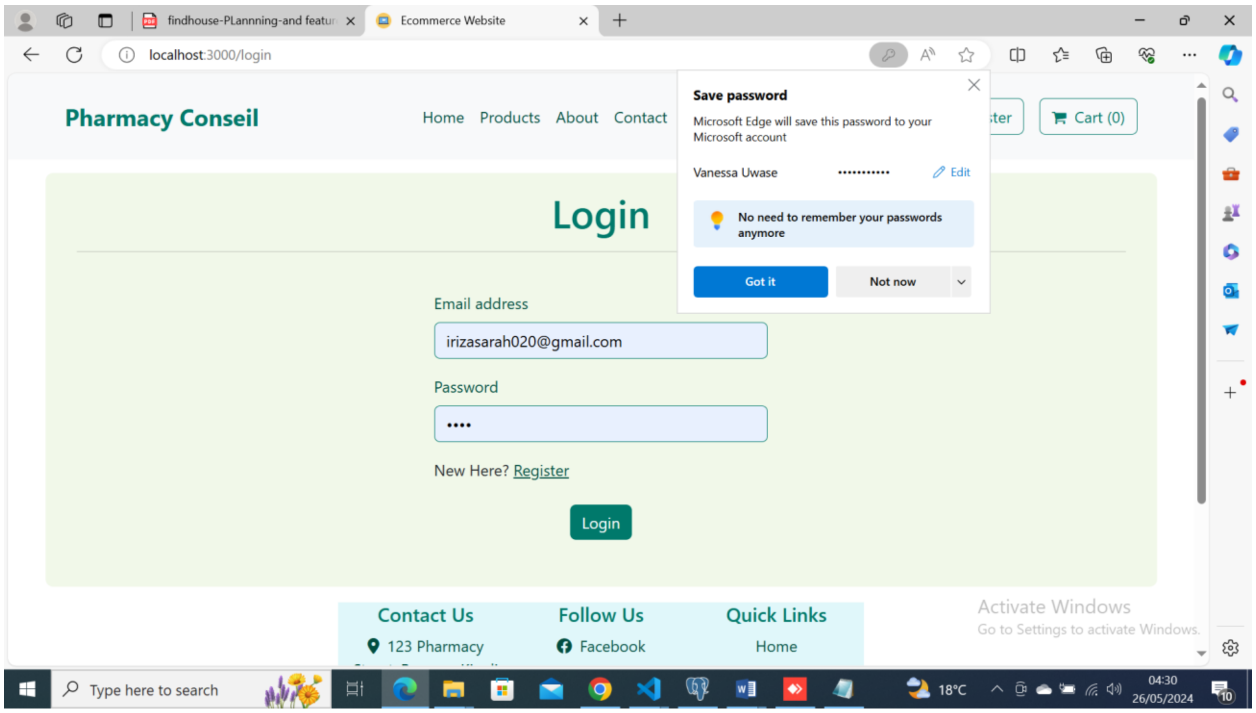
Register

Logging In

Click on the "Login" link.

Enter your username and password.

Click "Login" to log in.


localhost:3000/login

Pharmacy Conseil

Home Products About Contact

Save password

Microsoft Edge will save this password to your Microsoft account

Vanessa Uwase ••••••••••• Edit

No need to remember your passwords anymore

Got it Not now

Cart (0)

Login

Email address

irizasarah020@gmail.com

Password

••••

New Here? Register

Login

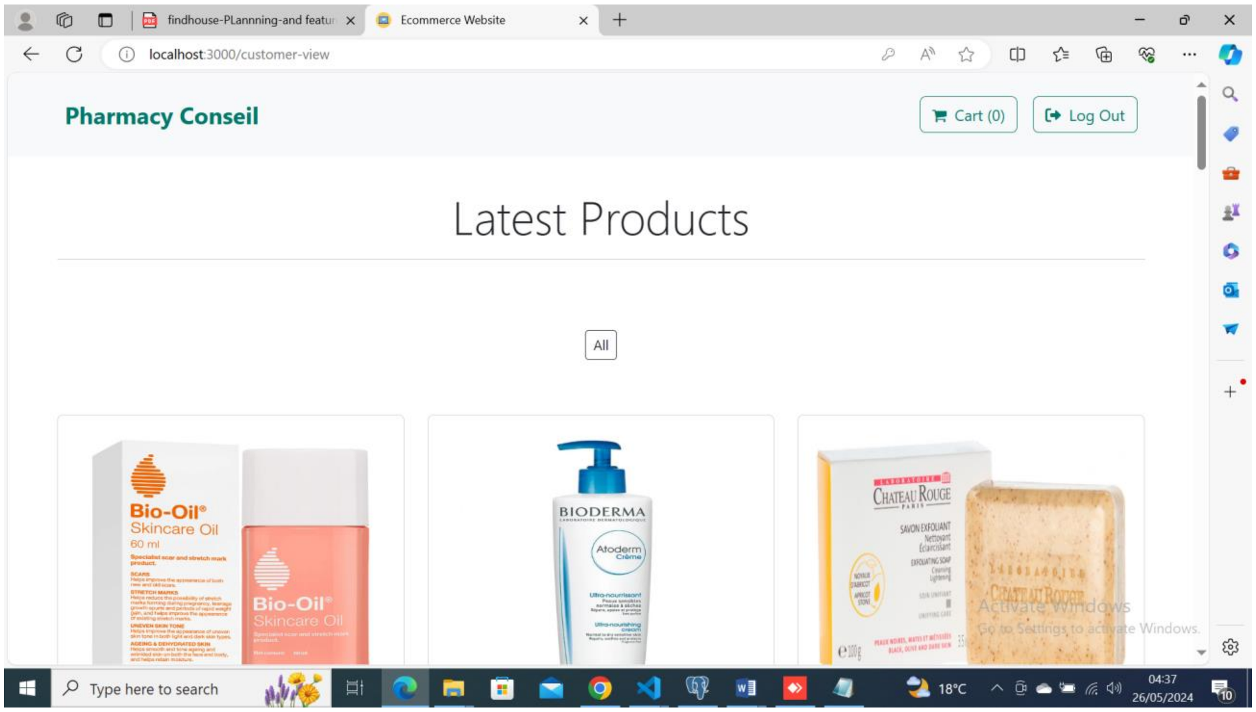
Contact Us Follow Us Quick Links

123 Pharmacy Facebook Home

3. Browsing and Searching for Products

➔Viewing Products

➔Once logged in, navigate to the "Products" page.

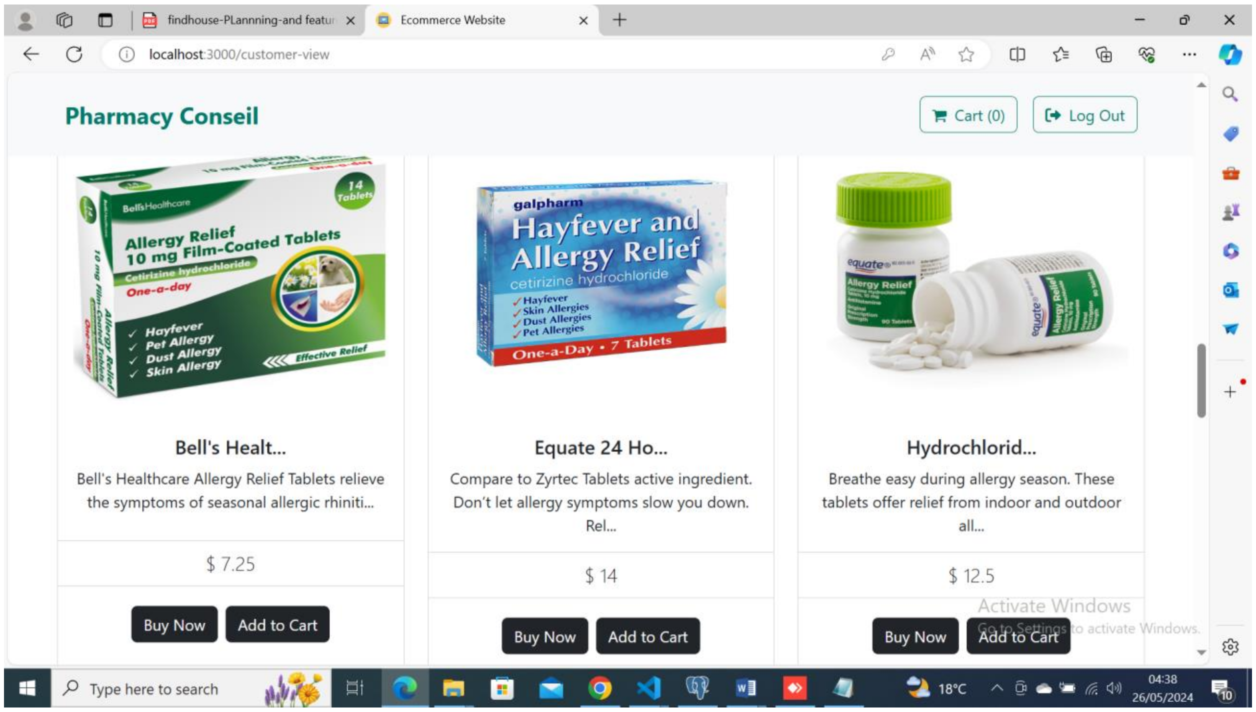

localhost:3000/customer-view

Pharmacy Conseil

Cart (0) Log Out

Latest Products

All


Pharmacy Conseil

Cart (0) | Log Out

Bell's Healt...

Bell's Healthcare Allergy Relief Tablets relieve the symptoms of seasonal allergic rhiniti...

$ 7.25

Buy Now | Add to Cart

Equate 24 Ho...

Compare to Zyrtec Tablets active ingredient. Don't let allergy symptoms slow you down. Rel...

$ 14

Buy Now | Add to Cart

Hydrochlorid...

Breathe easy during allergy season. These tablets offer relief from indoor and outdoor all...

$ 12.5

Buy Now | Add to Cart

➔Browse the list of available products.

⇨ Searching for Products

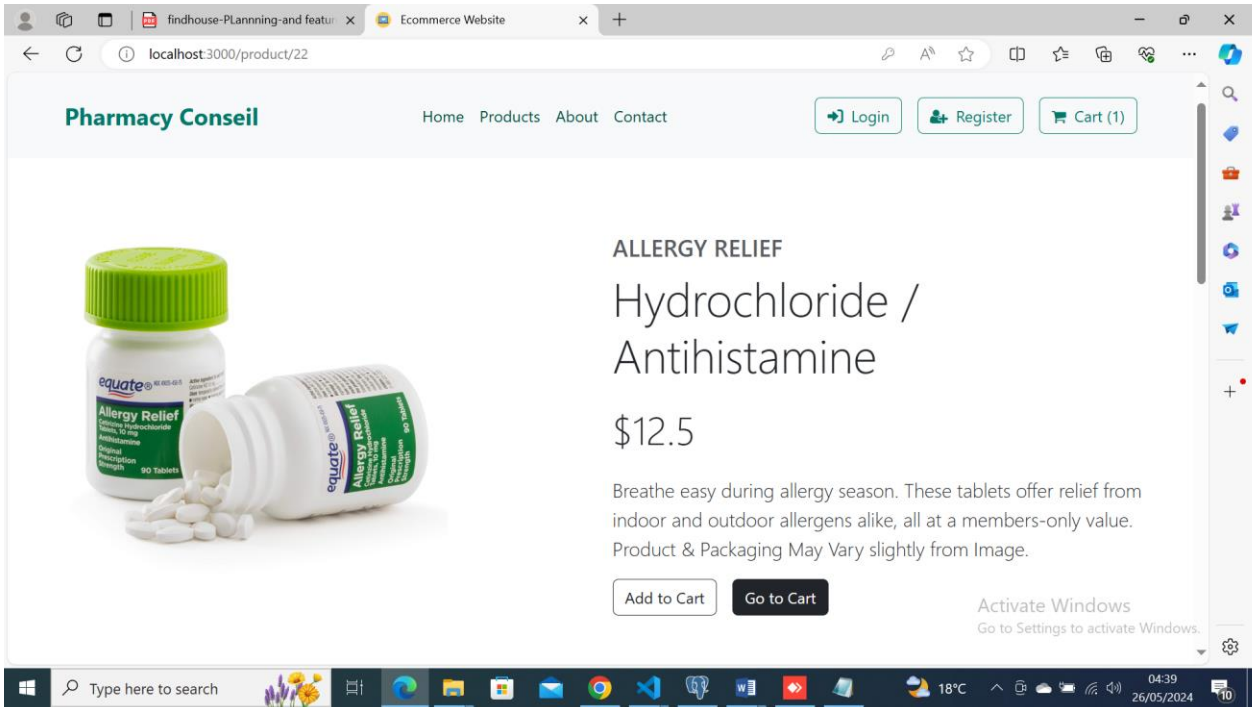
➔Use the search bar at the top of the "Products" page.

⇨ Enter keywords related to the product you are looking for.

➔Click "Search" to filter the products.

4. Placing an Order

➔ Browse the products and click on the product you wish to purchase.



ALLERGY RELIEF

Hydrochloride / Antihistamine

$12.5

Breathe easy during allergy season. These tablets offer relief from indoor and outdoor allergens alike, all at a members-only value. Product & Packaging May Vary slightly from Image.

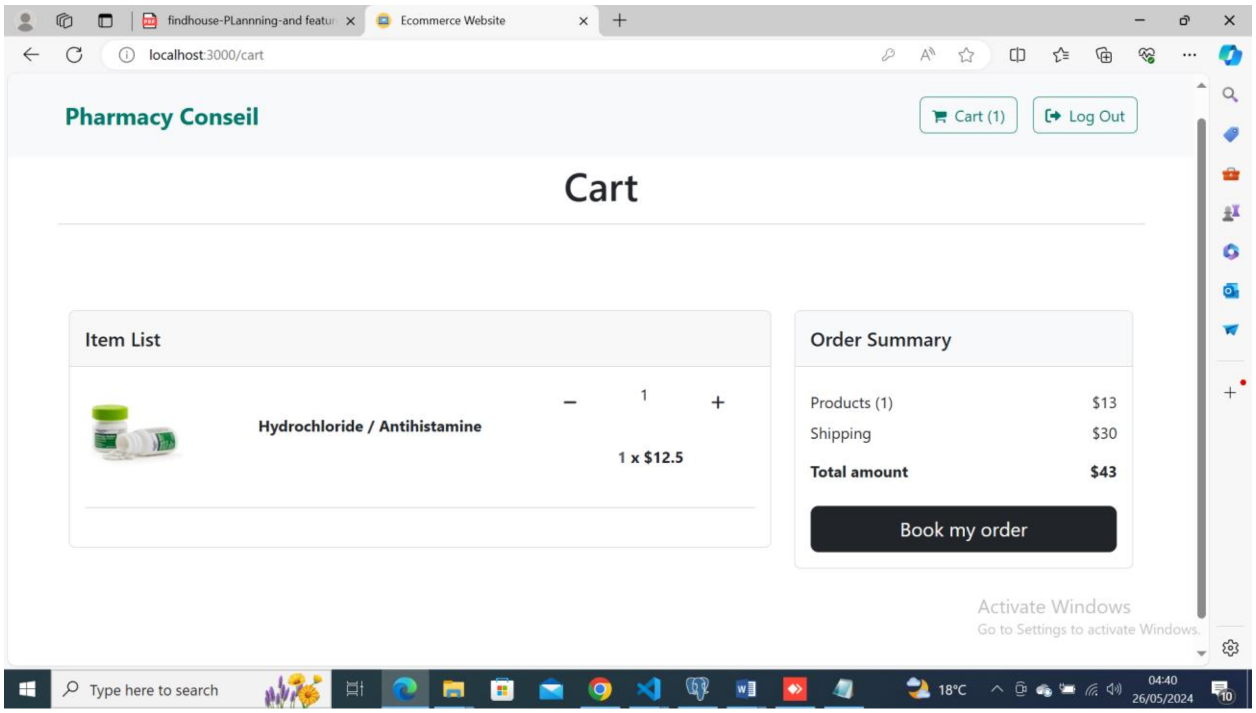
⇨ Click "Add to Cart" on the product details page.

➔Go to your cart by clicking on the cart icon.

➔Review your cart items and click "Proceed to Checkout".

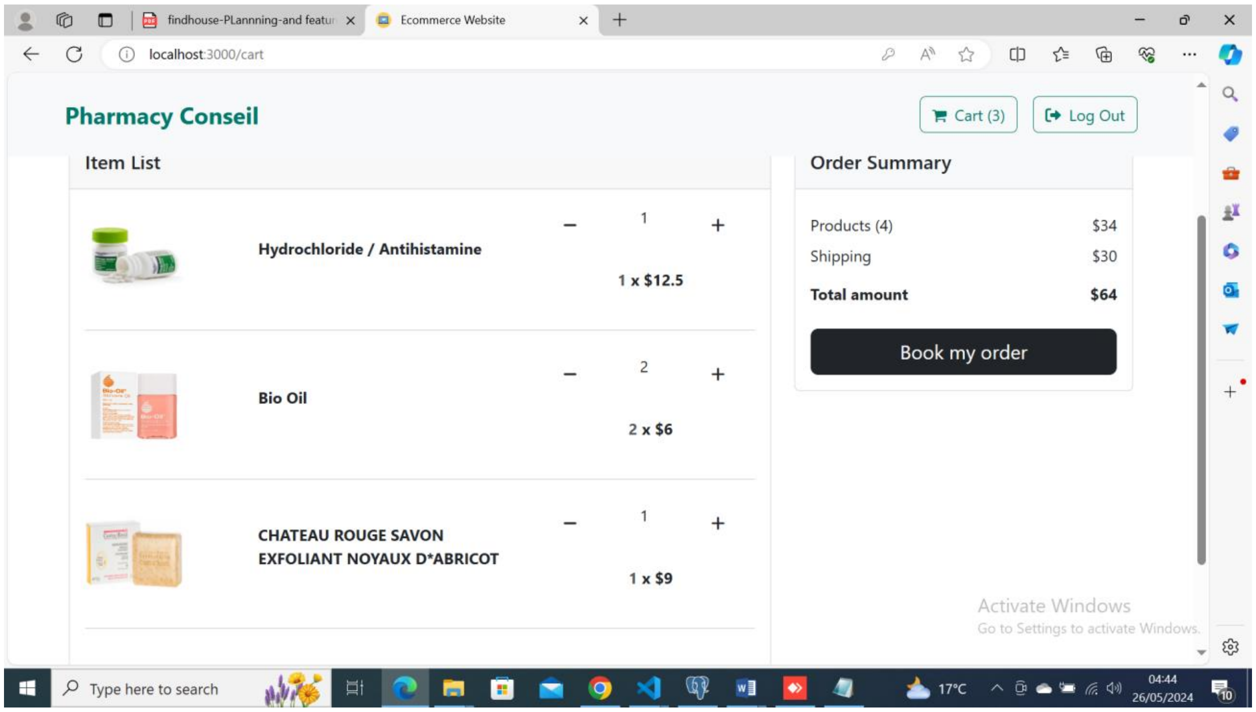
➔Fill in your shipping information and payment details.

➔Click "Book my Order" to complete your purchase.



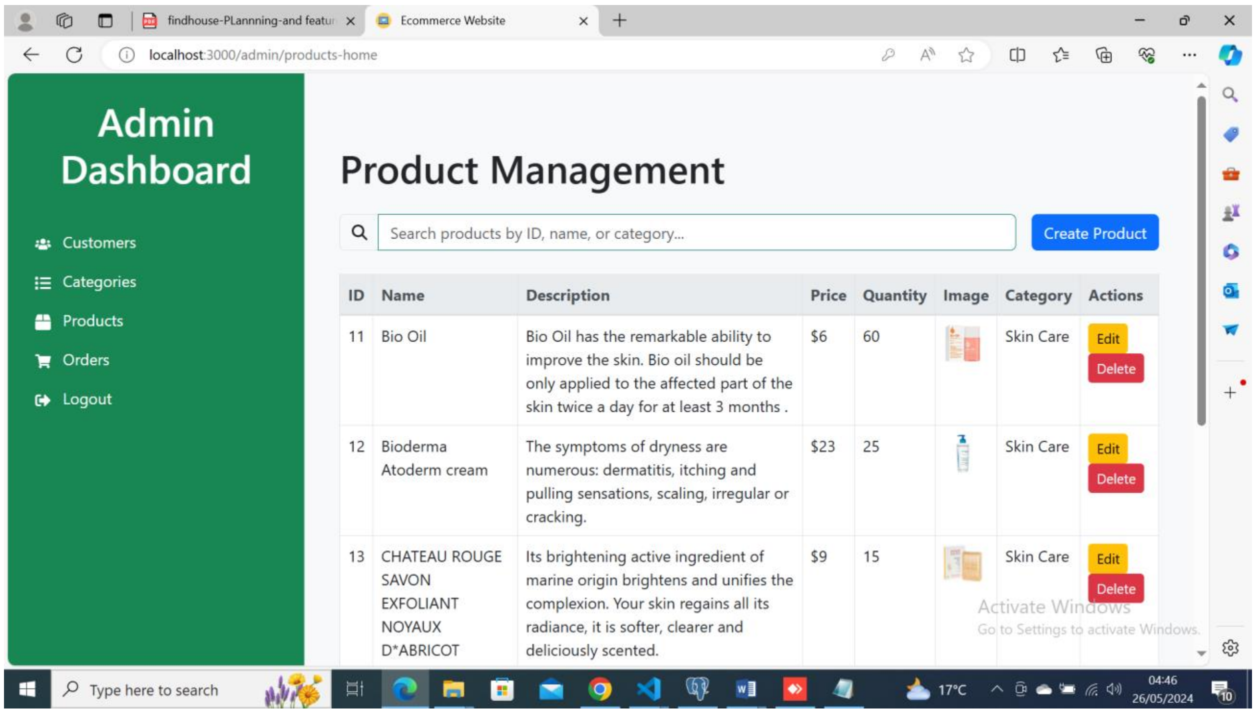
5. Logging Out

➔ Click on "Logout"



Admin Manual for Pharmacy Conseil / Dashboard :

1. Managing Products



ID	Name	Description	Price	Quantity	Image	Category	Actions
11	Bio Oil	Bio Oil has the remarkable ability to improve the skin. Bio oil should be only applied to the affected part of the skin twice a day for at least 3 months .	$6	60		Skin Care	Edit Delete
12	Bioderma Atoderm cream	The symptoms of dryness are numerous: dermatitis, itching and pulling sensations, scaling, irregular or cracking.	$23	25		Skin Care	Edit Delete
13	CHATEAU ROUGE SAVON EXFOLIANT NOYAUX D*ABRICOT	Its brightening active ingredient of marine origin brightens and unifies the complexion. Your skin regains all its radiance, it is softer, clearer and deliciously scented.	$9	15		Skin Care	Edit Delete

Adding a New Product

➔Log in with your admin account.

➔Navigate to the "Admin" section.

➔Click "Add Product".

⇨ Fill in the product details and click "Save".

➔Updating an Existing Product

➔Navigate to the "Admin" section.

➔Select the product you wish to update.

➔Modify the product details and click "Update".

➔Deleting a Product

➔Navigate to the "Admin" section.

➔Select the product you wish to delete.

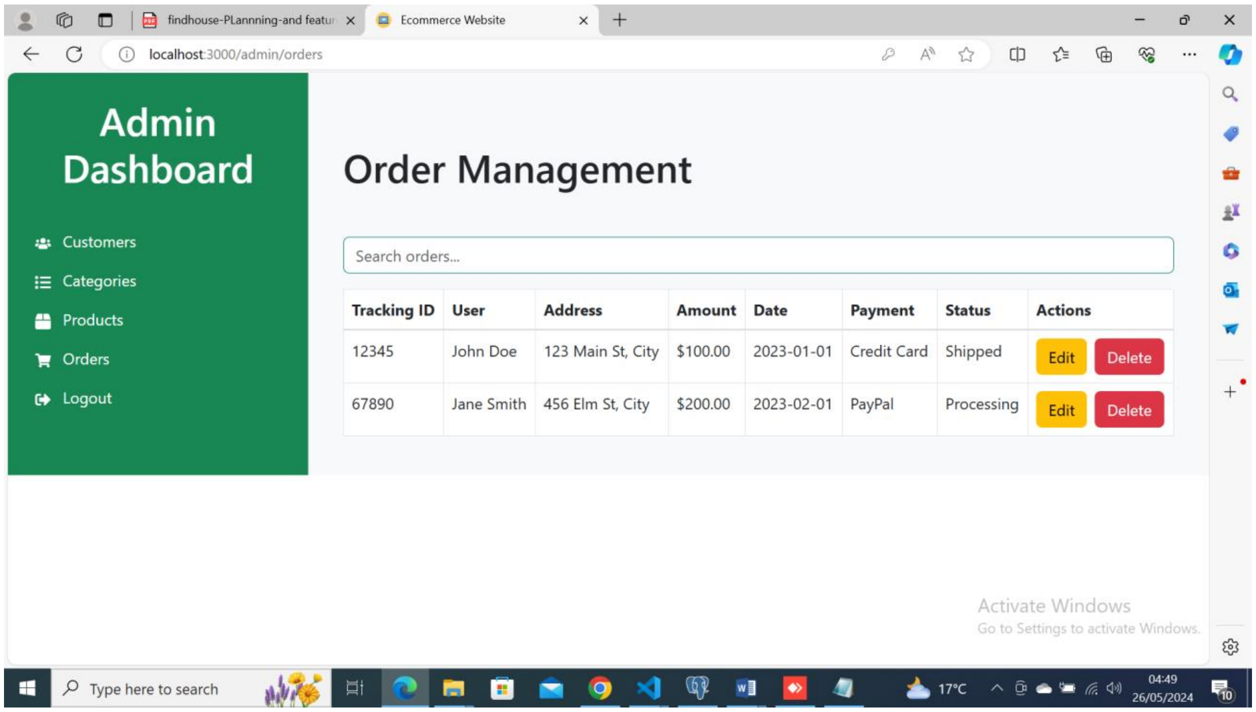
➔Click "Delete" and confirm the deletion.

2. Managing Orders

Viewing Orders

➔Navigate to the "Orders" page in the "Admin" section.

➔View the list of all orders.



Admin Dashboard

- Customers
- Categories
- Products
- Orders
- Logout

Order Management

Search orders...

Tracking ID	User	Address	Amount	Date	Payment	Status	Actions
12345	John Doe	123 Main St, City	$100.00	2023-01-01	Credit Card	Shipped	Edit Delete
67890	Jane Smith	456 Elm St, City	$200.00	2023-02-01	PayPal	Processing	Edit Delete

localhost:3000/admin/orders
Activate Windows
Go to Settings to activate Windows.

➔Updating Order Status

➔Select an order from the list.

➔Change the status of the order (e.g., Processing, Shipped, Delivered).

➔ Click "Update" to save the status change.

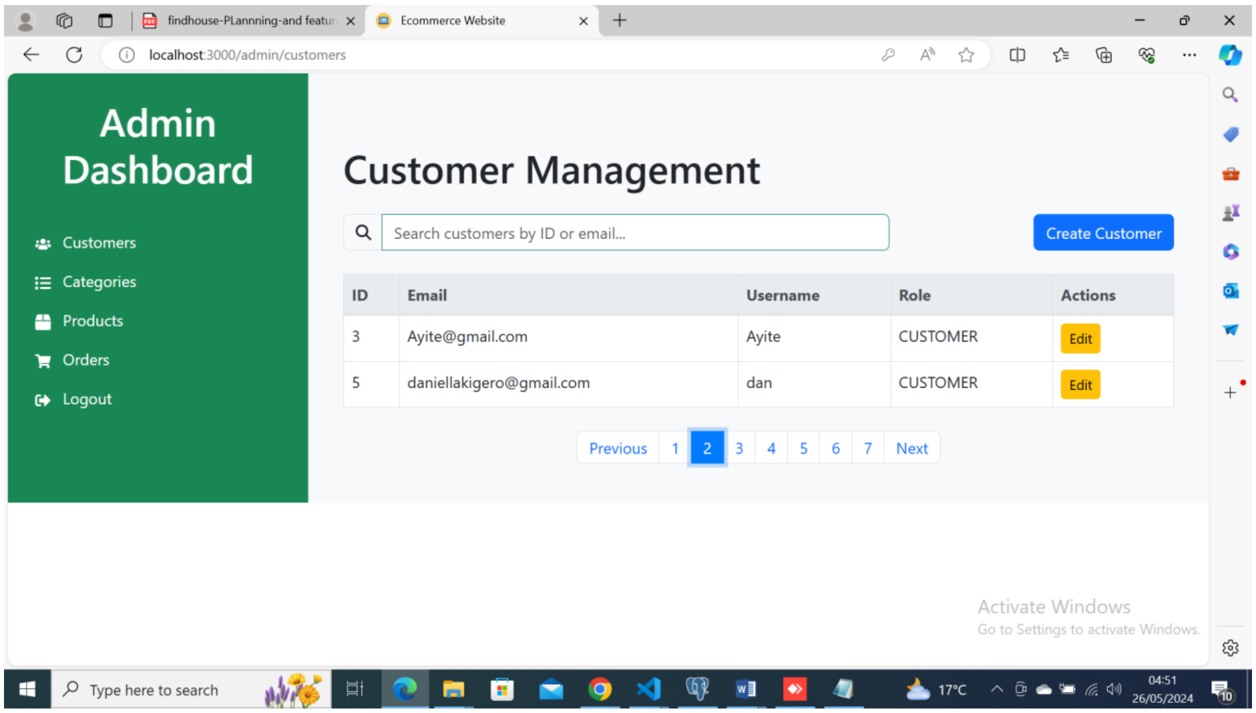
3. User Management

➔Viewing Users

➔Navigate to the "Users" page in the "Admin" section.

➔View the list of all registered users.

➔Managing User Roles

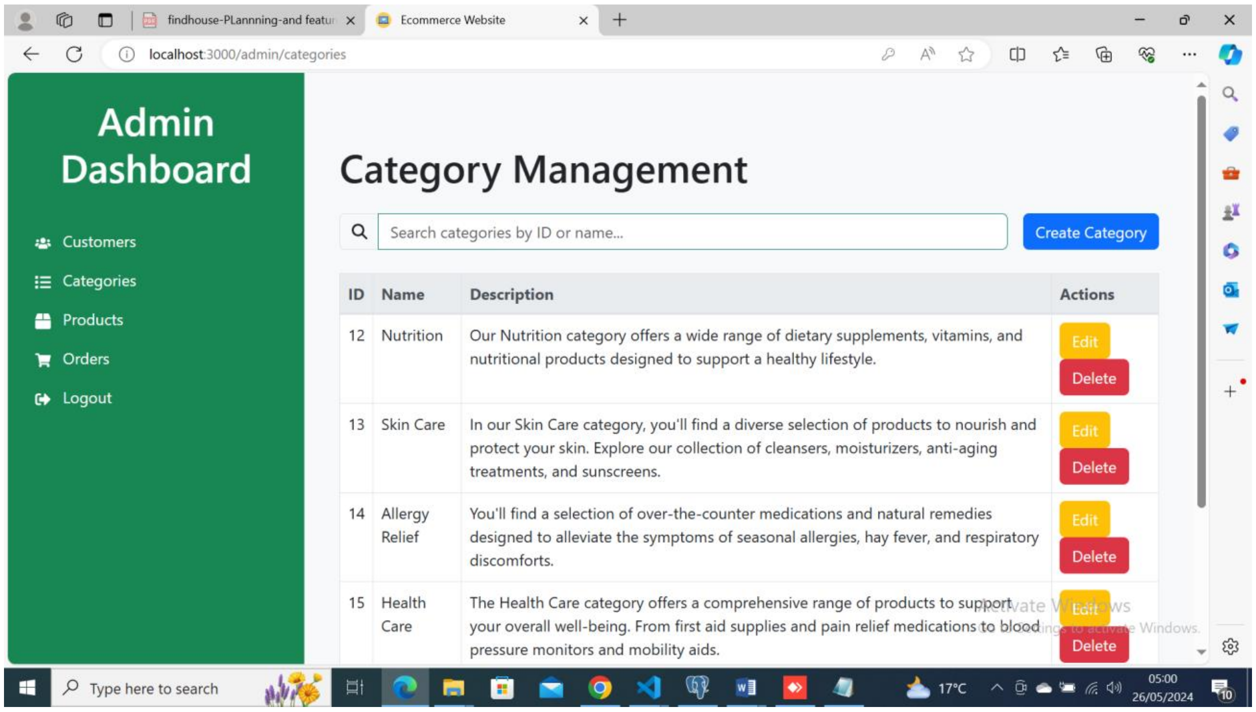


Customer Management

Search customers by ID or email...

ID	Email	Username	Role	Actions
3	Ayite@gmail.com	Ayite	CUSTOMER	Edit
5	daniellakigero@gmail.com	dan	CUSTOMER	Edit

4. Category Management

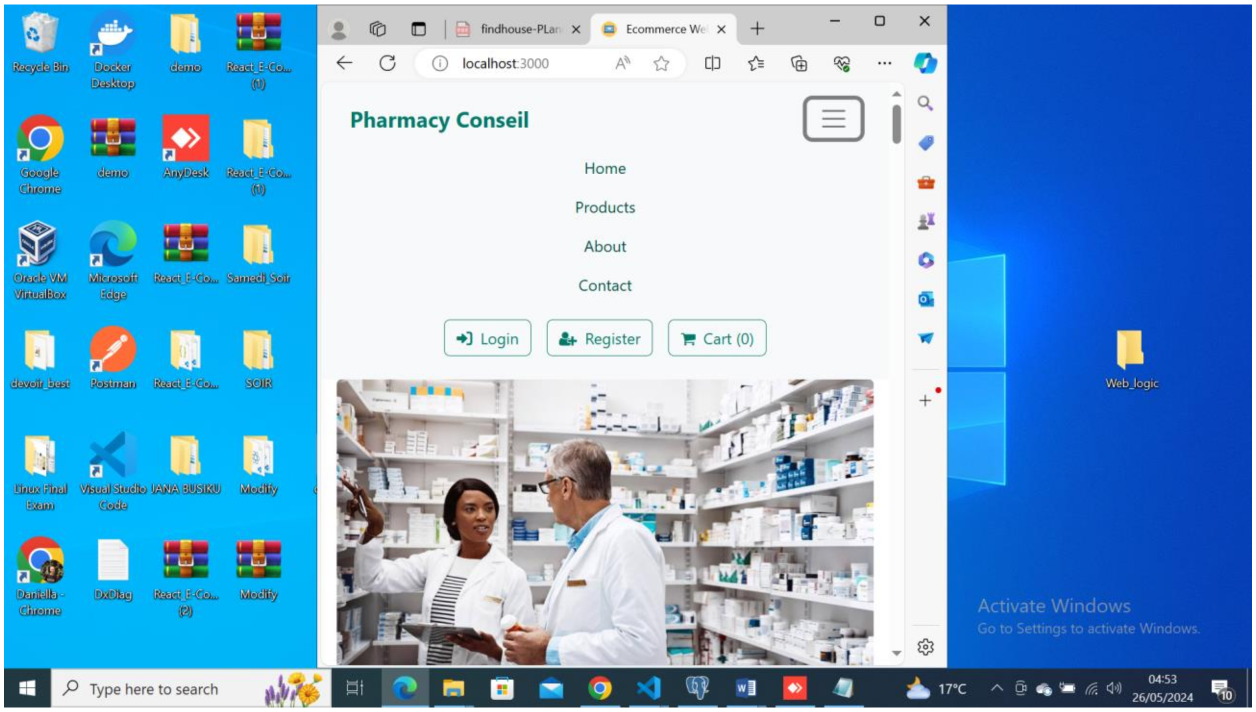


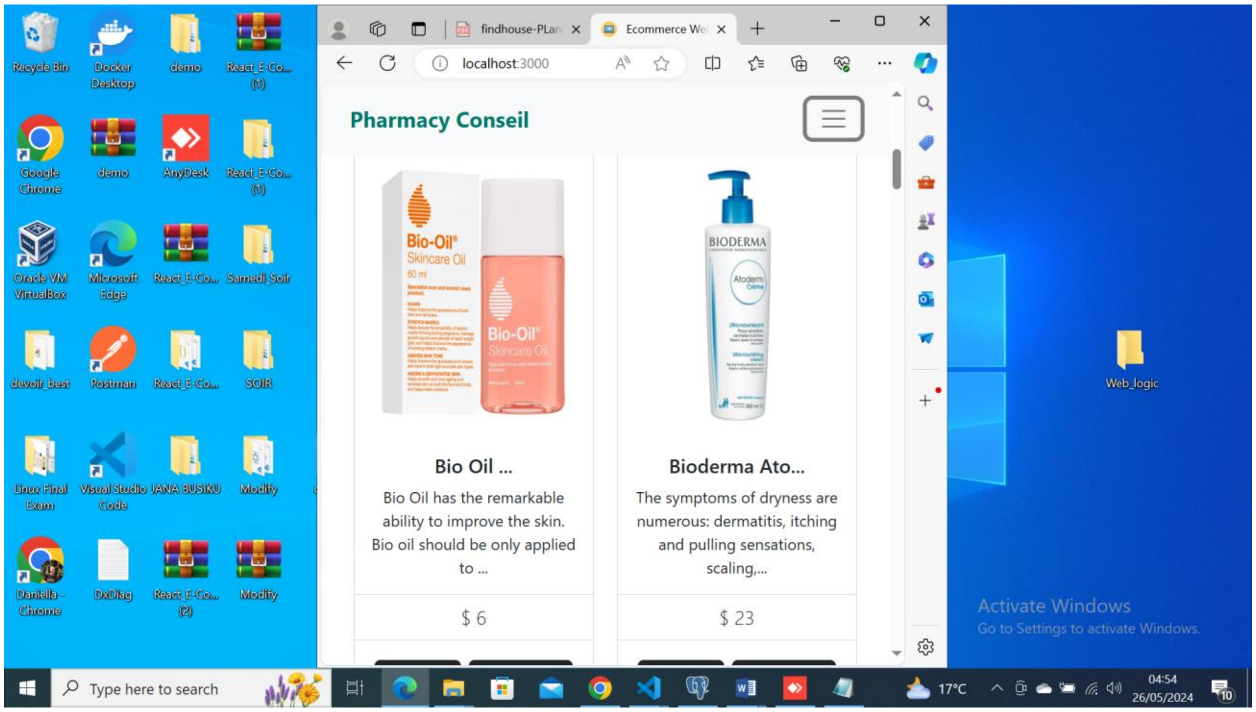
Category Management

Search categories by ID or name...

ID	Name	Description	Actions
12	Nutrition	Our Nutrition category offers a wide range of dietary supplements, vitamins, and nutritional products designed to support a healthy lifestyle.	Edit Delete
13	Skin Care	In our Skin Care category, you'll find a diverse selection of products to nourish and protect your skin. Explore our collection of cleansers, moisturizers, anti-aging treatments, and sunscreens.	Edit Delete
14	Allergy Relief	You'll find a selection of over-the-counter medications and natural remedies designed to alleviate the symptoms of seasonal allergies, hay fever, and respiratory discomforts.	Edit Delete
15	Health Care	The Health Care category offers a comprehensive range of products to support your overall well-being. From first aid supplies and pain relief medications to blood pressure monitors and mobility aids.	Edit Delete

User Interface: • Responsive and dynamic interfaces that update in real-time (e.g., using React with hooks and state management libraries like Redux)





Bio Oil ...

Bio Oil has the remarkable ability to improve the skin. Bio oil should be only applied to ...

$ 6

Bioderma Ato...

The symptoms of dryness are numerous: dermatitis, itching and pulling sensations, scaling,...

$ 23

This concludes the documentation for Pharmacy Conseil. For any further assistance, please refer to the contact information provided on the Pharmacy Conseil website.