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Version overview

Date	Version	Author	Comment
21/10/2024	0.1	Hoza Violeta- Maria, Chirobocea Daria-Ioana	Initial version


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Introduction

This project focuses on developing an advanced e-commerce application for personal care products, offering a personalized and efficient shopping experience for users. The platform will support three distinct user roles: users, employees, and administrators, each with specific functionalities and permissions. The system includes a database where information related to users, products, and orders will be stored. Additionally, the application will have a user-friendly interface.

General view of actors and use cases

The actors interacting with the system are described in the table below.

<i>Actor</i>	<i>Type</i>	<i>Description</i>
Administrator	Human	The person manages/configures the system.
Client	Human	Performs general operations over the system, such that visiting the Web-pages, buying products
Supplier	Human	The person who manages the products provided.
Employee	Human	The person who manages orders and products via the application.
Carrier	Human	The person who manages the delivery of orders.

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Detailed description of actors and use cases

3.1 Actors

3.1.1 Administrator

Type: Human

Detailed description: The administrator will be responsible for maintaining and configuring the system, essentially managing it. They will perform operations regarding products, orders, and employees.

Where is used:

This actor is used in the:

- Profile update
- Log in / Log out
- Viewing clients / employees
- Setting a user as administrator / employee
- Viewing products
- Viewing orders
- Adding/deleting/editing products

3.1.2 Client


Type: Human

Detailed description: The typical consumer will be able to access the actual app and make the necessary purchases after viewing targeted products, which are recommended based on a questionnaire completed during the registration process.

Where is used:

This actor is used in the:

- Registration on the application
- Log in / Log out
- Profile update
- Completing preference questionnaire
- Searching for specific products
- Adding products to cart
- Placing an order

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3.1.3 Employee

Type: Human

Detailed description: The employee is responsible for managing orders and products.

Where is used:

This actor is used in the:

- Log in / Log out
- Profile update
- Sending orders to the carrier
- Viewing products
- Searching for products
- Viewing clients
- Viewing orders

3.1.4 Supplier

Type: Human

Detailed description: The supplier's role is to add the products they supply and to view the products in stock that they provide.

Where is used:

This actor is used in the:

- Log in
- Viewing their products in stock
- Profile update
- Adding supplied products

3.1.5 Carrier


Type: Human

Detailed description: he carrier's role is to maintain communication with employees regarding orders by marking an order as delivered and collecting payment on delivery.

Where is used:

This actor is used in the:

- Log in / Log out
- Profile update
- Marking an order as delivered

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3.2 Use cases

3.2.1 Use Case Diagram for Administrator

Description:

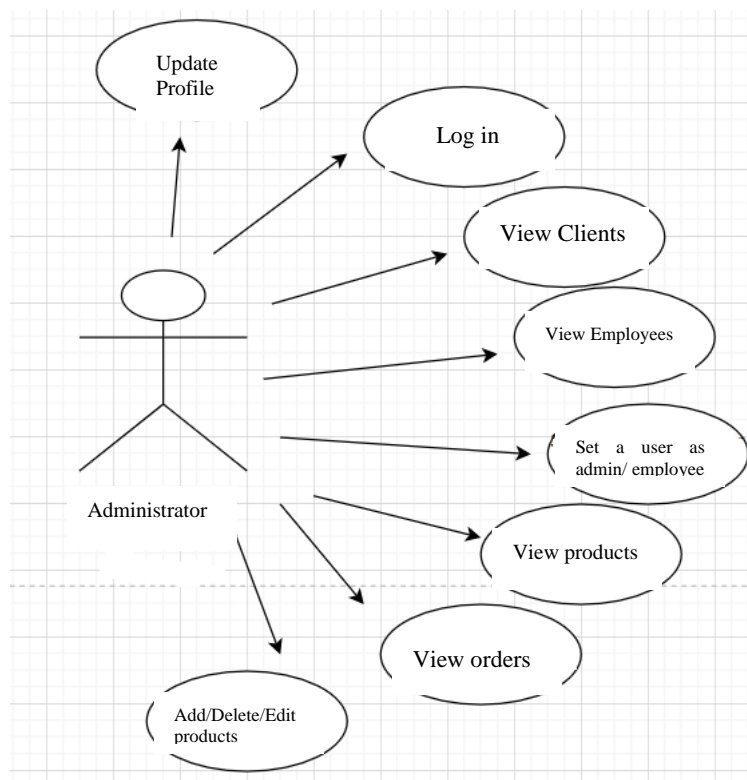
The Administrator use case diagram illustrates the primary actions an administrator can perform within the web application. Initially, the administrator must log in to gain access to the system's features. Once authenticated, they have access to two main areas of functionality: product management, order management and user management.


Precondition:

- The administrator must successfully log in using valid credentials before they can access any product or user management functions.

Postcondition:

- Upon completing their tasks, the administrator must log out of the system.
- For all modifications (whether related to products, orders, or users), the administrator must ensure that changes are properly saved to maintain data consistency.



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3.2.2 Use Case Diagram for *Client*

Description:

Client use case diagram outlines the primary actions available to a registered user within the e-commerce web application. Initially, a client must create an account by providing a username and password. During registration, they will complete a preference questionnaire that allows the application to recommend personalized products. After creating an account, the client can log in and perform typical online shopping activities, including viewing products and placing orders.

The client can select from two payment options when placing an order:

1. Card Payment: The client provides card details to make an electronic payment.
2. Cash on Delivery: The client selects this option to pay when the order is delivered.


After completing their activities, it is recommended that the client log out to ensure security and privacy.

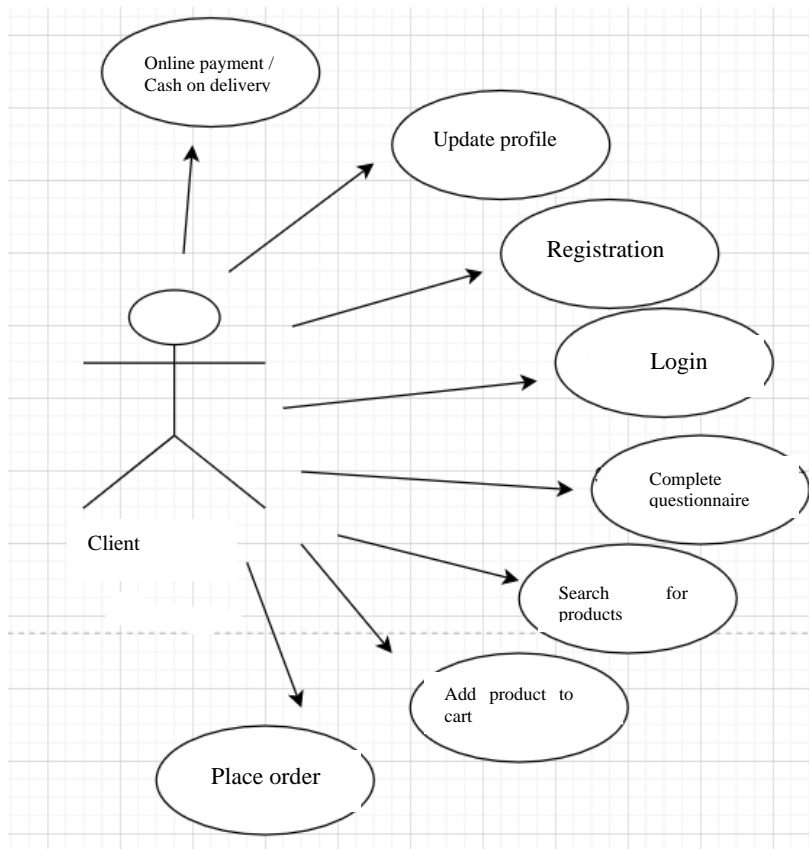
Precondition:

- The client must create an account and complete the preference questionnaire before they can log in and access the full range of features.
- The client must log in to view products and place orders.

Postcondition:

- After completing their activities (such as viewing products or placing orders), the client should log out to prevent unauthorized access.
- For card payments, the client must provide valid card details to complete the transaction.

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3.2.3 Use Case Diagram for *Employee*


Description:

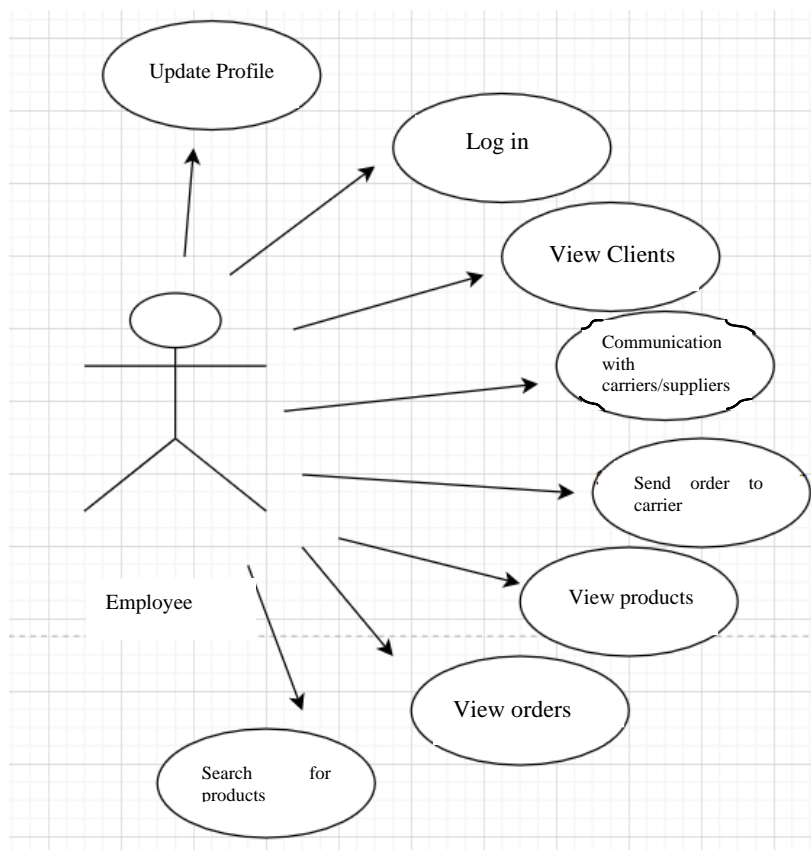
The Employee use case diagram describes the primary actions an employee can perform in the web application. An employee is responsible for managing orders and coordinating with suppliers and carriers. This includes assigning orders to specific carriers for delivery and ensuring smooth communication with suppliers to maintain stock levels and order fulfilment.

Employees must be logged in to access the order management system. When they complete their tasks, they are required to log out to secure the session and prevent unauthorized access.

Precondition: The employee must log in before accessing order management functions or initiating communication with suppliers and carriers.

Postcondition: The employees should log out after completing their tasks to ensure data security and system integrity.

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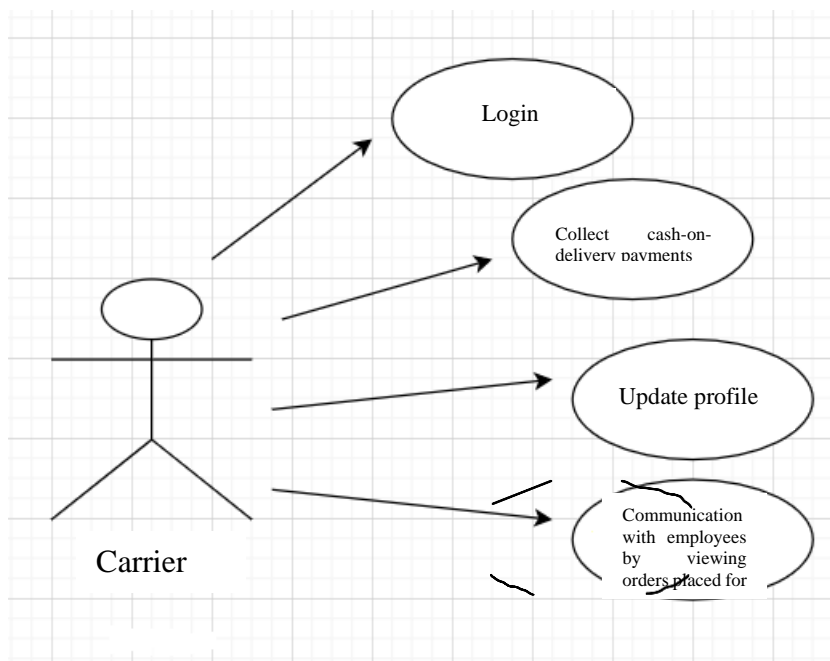
3.2.4 Use Case Diagram for *Supplier*

Description: The Supplier use case diagram outlines the main action available to a supplier in the web application. A supplier's primary responsibility is to view the stock of products they provide to the online store. This enables suppliers to monitor inventory levels for their items and ensure adequate supply. Suppliers must be logged in to view stock information. Once they have finished their tasks, they are required to log out to secure their session and prevent unauthorized access.

Precondition: The supplier must log in before accessing any stock information.

Postcondition: After completing their activities, the supplier should log out to ensure the security of their account.

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Glossary – used terms

4.1 Log In: Users must perform this operation to be authenticated in their account on the web application.

4.2 Log Out: Users must perform this operation to avoid remaining connected to the site.


4.3 Registration on the Site: This operation is the first one that any type of user performs. To have an account on the site, they must create one, choosing a username, a password, and filling in the required personal data.

4.4 Completing the Questionnaire: During registration, the client-type user must complete a questionnaire regarding their product preferences. Based on the answers, the client will receive specially selected products tailored to their needs.

4.5 Viewing Products: This operation can be performed by the administrator, client, and employee. Additionally, the supplier can view only the products they provide. Others can view all products, except the client, who receives specially selected products.

4.6 Placing Orders: This operation can only be performed by the client and involves placing an online order containing one or more products.

4.7 Editing/Deleting Products: This operation can only be performed by the administrator and involves modifying the data of certain products.

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4.8 Updating Profile: This operation can be performed by all users and represents updating personal data within the user account.

4.9 Viewing Orders: This operation can be performed by the employee, carrier, and administrator to view orders placed by clients.

4.10 Viewing Employees: This operation can only be performed by the administrator and consists of viewing employees.

4.11 Setting a User as Employee/Administrator: This operation can only be performed by the administrator. They can set another user as an administrator or employee.

4.12 Registering Payments by Carrier: This operation will be performed by the carrier in the case of cash on delivery payment made by the client.

4.13 Online Payment Option for Orders: The client will have the option to pay with a card or cash on delivery when finalizing the order.