

Users Use Cases

1. Introduction

- Overview of the system functionality.
- Purpose: An E-commerce platform(ShopForHome) that allows users to browse, filter, add to cart, manage cart, apply coupons, and wishlist products.

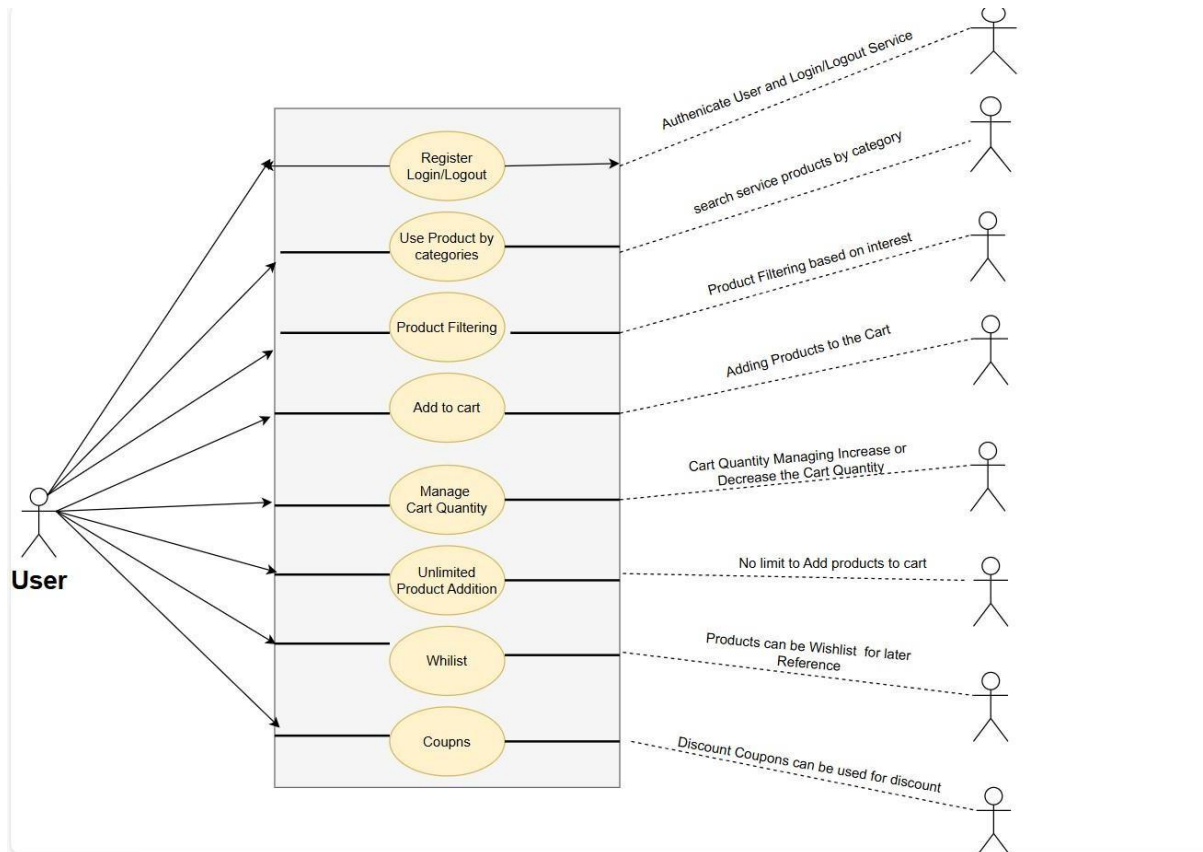
2. Actors

- User: The primary actor interacting with the system.
- System: Handles login authentication, product management, cart updates, and discount applications.

3. Use Cases & Descriptions

- Each use case should be explained as follows:

Use Case ID	Use Case Name	Description	Actors	Pre-Conditions	Post-Conditions
UC01	Register/Login/Logout	Allows users to authenticate in the system.	User	User should have an account	User is logged in or out
UC02	Browse Products by Category	Users can search products based on categories.	User	User is logged in	Products are displayed by category
UC03	Product Filtering	Users can filter products based on interest.	User	User is on the product page	Filtered results are displayed
UC04	Add to Cart	Users can add selected products to their cart.	User	User selects a product	Product is added to the cart
UC05	Update Cart Quantity	Users can increase or decrease cart quantity.	User	User has at least one product in the cart	Quantity is updated
UC06	Add Unlimited Products	No restriction on adding products to the cart.	User	None	Products are added without limit
UC07	Wishlist	Users can save products for later reference.	User	User is logged in	Product is added to wishlist
UC08	Apply Coupons	Users can apply discount coupons during checkout.	User	User has a valid coupon	Discount is applied



4. System Workflow

- User logs in/registers to the platform.
- They browse and filter products.
- Users can add products to the cart or wishlist.
- Cart management options allow updating product quantities.
- Users can apply coupons before proceeding to checkout.

5. Diagram Analysis & Enhancements

- **Correct Spelling Mistakes:** "Whilst" → "Wishlist", "Coups" → "Coupons".
- **Consistency in Naming:** Rename "Use Product by Categories" → "Browse Products by Category", etc.
- **Generalization of Use Cases:** Shopping cart functionalities can be grouped under "Cart Management".
- **Actor Optimization:** Remove redundant external actors.

6. Conclusion

- The use case diagram effectively represents the e-commerce system functionalities.
- Improvements ensure better readability, clarity, and system understanding.

Admin Use Case

1. Introduction

- Overview: This diagram represents the administrative functionalities of the system.
- Purpose: The admin manages users, products, orders, stock, sales reports, and discount coupons.

2. Actors

- Admin: The primary actor who interacts with the system for management and reporting purposes.
- System: Handles CRUD operations, stock management, report generation, and other admin-specific tasks.

3. Use Cases & Descriptions

Each use case should be explained as follows:

Use Case ID	Use Case Name	Description	Actors	Pre-Conditions	Post-Conditions
UC01	Register/Login/Logout	Allows the admin to log in and manage the system.	Admin	Admin should have credentials	Admin is authenticated
UC02	User Management	Enables CRUD (Create, Read, Update, Delete) operations on user data.	Admin	Admin has access rights	User data is updated
UC03	Product Management	Admin can add, modify, or remove products.	Admin	Admin is logged in	Product data is updated
UC04	Bulk Order Update	Admin can upload multiple products using CSV.	Admin	Valid CSV file is uploaded	Products are updated in bulk
UC05	Stock Management	Admin can view stock levels and receive low stock alerts.	Admin	Stock levels are monitored	Notifications are triggered for low stock

Use Case ID	Use Case Name	Description	Actors	Pre-Conditions	Post-Conditions
UC06	Sales Report	Allows the admin to generate and view sales reports.	Admin	Sales data is available	Sales report is generated
UC07	Coupons	Admin can create and assign discount coupons to users.	Admin	Admin enters coupon details	Coupons are assigned successfully

4. System Workflow

- The Admin logs in.
- Manages Users (CRUD operations).
- Manages Products (CRUD operations).
- Updates Bulk Orders via CSV upload.
- Monitors Stock and receives notifications for low inventory.
- Generates Sales Reports.
- Creates and assigns Coupons for users.

