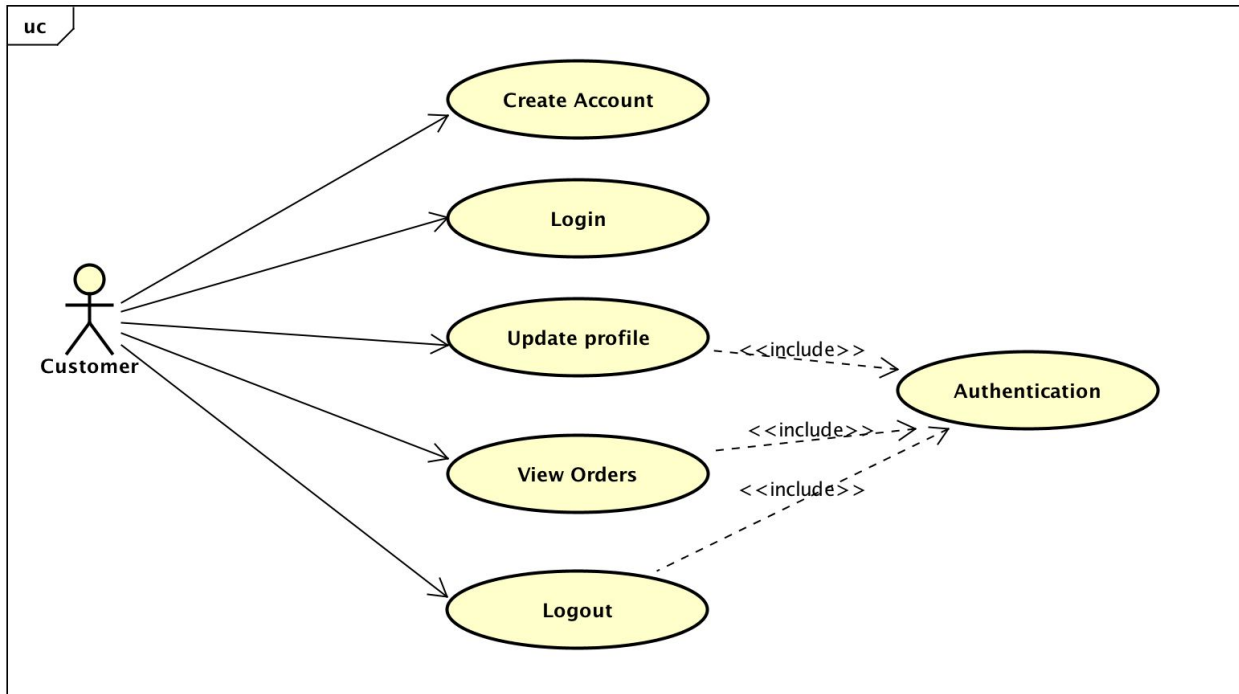




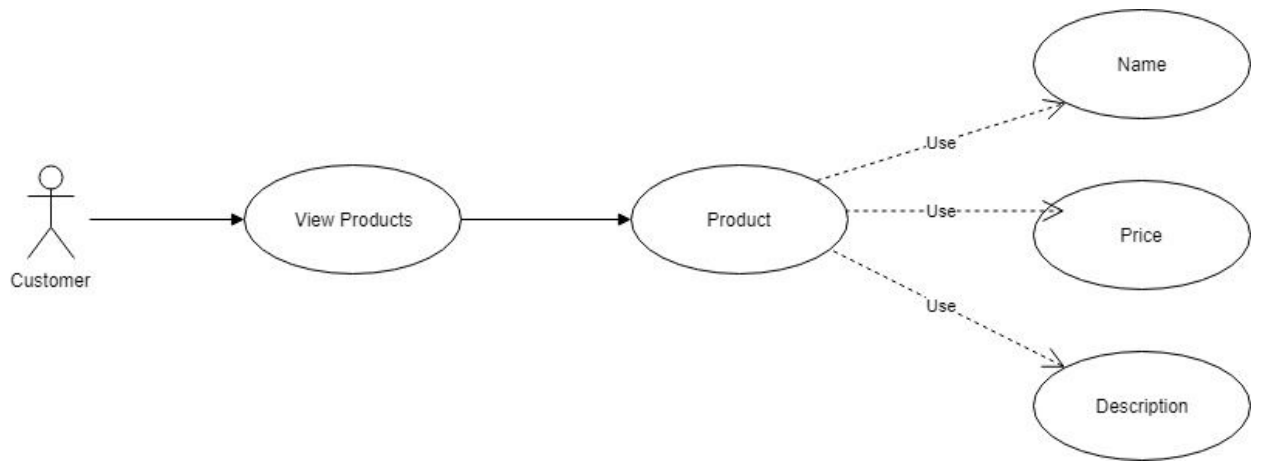
# iShop Use Case Diagram

## 1. Customer

### Use Case: Customer Account

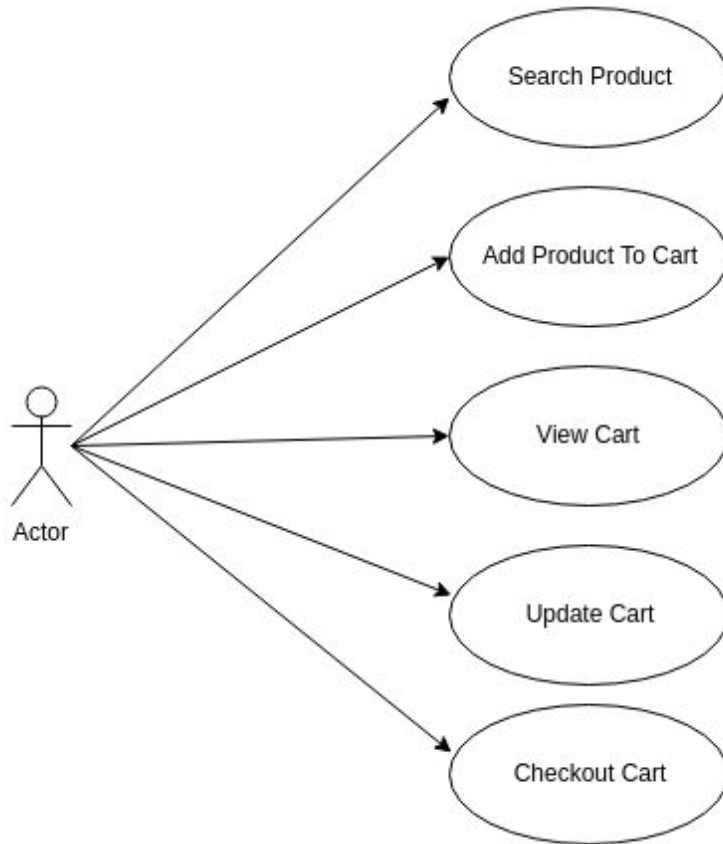


## 2. Product

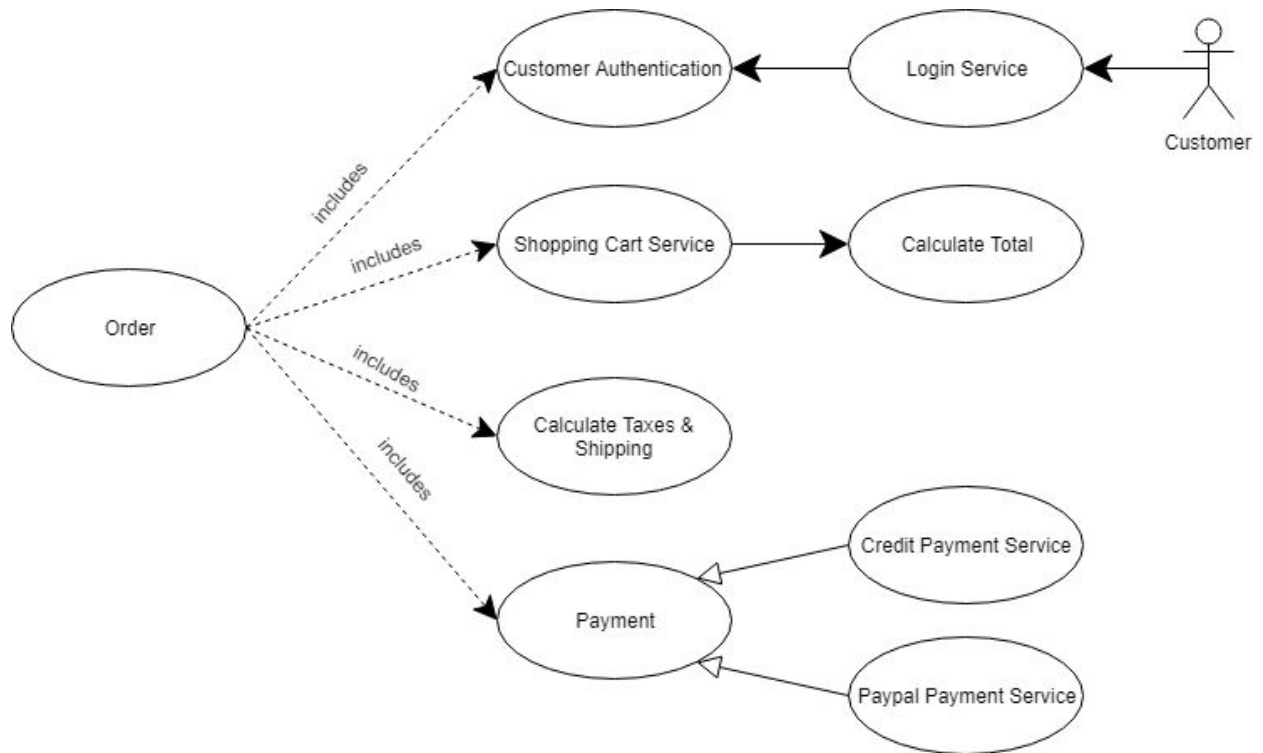


### 3. Shopping Cart

## Use Case: **Add/Edit/Delete Item to Shopping Cart**



#### 4. Order



# iShop: Use Case Description

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<b>Use Case Number: 1</b>		
<b>Name:</b> Customer Account		
<b>Brief description</b> This use case shows the different actions a customer can perform while using the platform		
<b>Actor</b> Customer ( Anonymous + Authenticated )		
<b>Flows of Event</b>		
<b>1. Basic flow</b>		
<b>1.0 Create an account</b>		
<b>Step</b>	<b>User Actions</b>	<b>System Actions</b>
1	The customer calls the create profile command	The system displays the create account form with the fields for firstname, lastname, email, address, city, zip, country, and the password.
2	The customer fills out the form and send data to system	The system verifies that there's no other account in the database with the same email address, saves the account and returns the success message
<b>Postconditions</b>		
Customer account persisted in the system		
<b>Business Rules</b>		
<b>No duplicate customer account. A unique account is identified by email address.</b>		
<b>1.2 Login to Account</b>		

Step	User Actions	System Actions
1	The customer calls the login to account command	The system displays the login form with the fields of email and password.
2	The customer fills out the login form and send data to system	The system verifies the existence of the account in the database and returns the success message
<b>Postconditions</b>		
If login was successful, the customer is now logged into the system.		
<b>Business Rules</b>		
No duplicate customer account. A unique account is identified by email address.		
<b>1.3 Update Profile</b>		
<b>Preconditions</b>		
The customer must be logged in to the system		
Step	User Actions	System Actions
1	The customer calls the edit account command	The system displays the edit account form with the fields for firstname, lastname, address, city, zip, country, and the password.
2	The customer fills out the edit account form and send data to system	The system update the data of the account in the database and returns the success message
<b>Postconditions</b>		
The customer profile details will be updated		
<b>Business Rule</b>		
The customer cannot change the email address.		

<b>1.4 View Orders</b>		
<b>Preconditions</b>		
The customer must be logged in to the system		
<b>Step</b>	<b>User Actions</b>	<b>System Actions</b>
1	The customer calls the view orders command	The system returns a list of all the orders made by the logged in customer.
<b>Postconditions</b>		
<b>Business Rule</b>		
The customer cannot change the informations on the orders.		
<b>1.5 Logout from system</b>		
<b>Preconditions</b>		
The customer must be logged in to the system		
<b>Step</b>	<b>User Actions</b>	<b>System Actions</b>
1	The customer calls the logout from account command	The system logged out the customer.
<b>Postconditions</b>		
The customer must be logged out of the system		

<b>Use Case Number: 3</b>
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**Name:** Add/Edit/Delete Item to Shopping Cart

**Brief description** This use case allows customer to add product to shopping basket, remove item from basket and also allows customer to update item quantity to shopping cart

**Actor** Customer ( Anonymous + Authenticated )

#### Precondition

#### Flows of Event

##### 1. Basic flow

##### 1.1.0 Add Item to Shopping Cart for Anonymous user

Step	User Actions	System Actions
1	Search particular item	System will search in its catalog, and return bunch of products that matches with the search criteria
2	Add Item to shopping cart	The system verifies that there is already same product exists in his current shopping cart, if it's true then it will increase the item count, otherwise it will add a new item in the existing shopping cart

#### Postconditions

Persist the shopping cart in the browser's local storage

##### 1.1.1 Add Item to Shopping Cart for Authenticated user

Step	User Actions	System Actions
1	Search particular item	System will search in its catalog, and return bunch of products that matches with the search criteria
2	Add Item to shopping cart	The system verifies that there is already same product exists in his current shopping cart, if it's true then it will increase the item count, otherwise it will add a new item



		in the existing shopping cart
<b>Postconditions</b>		
Persist the shopping cart data in the system		
<b>Business Rules</b>		
<ul style="list-style-type: none"> <li>No duplicate item should be in the shopping cart item, if he add the same item more than once, quantity should be updated.</li> <li>Price should be match with the current price</li> </ul>		
<b>1.1.2 Remove Item from Shopping Cart</b>		
<b>Step</b>	<b>User Actions</b>	<b>System Actions</b>
1	Click on View Shopping cart	System will display all the items that exists in the shopping cart with price and quantity in a table
2	Click Remove button	System will remove the item from the shopping cart
<b>Postconditions</b>		
Persist the shopping cart data in the system		
<b>Business Rules</b>		
<ul style="list-style-type: none"> <li>Empty cart should not have any checkout option</li> </ul>		
<b>1.1.3 Update Item quantity to Shopping Cart</b>		
<b>Step</b>	<b>User Actions</b>	<b>System Actions</b>
1	Click on View Shopping cart	System will display all the items that exists in the shopping cart with price and quantity in a table

2	Update quantity in text field	System will validate input ( should be a number ) and Verify enough quantity available in the stock
<b>Postconditions</b>		
Persist the updated shopping cart data in the system		
<b>Business Rules</b>		
<ul style="list-style-type: none"> <li>Any Item should not have 0 quantity</li> <li>Item quantity should be available in the stock</li> </ul>		

<b>Use Case Number: 4</b>		
<b>Name:</b> Order		
<b>Brief description</b> This use case allows customer to order items that are within shopping basket		
<b>Actor</b> Customer ( Authenticated only )		
<b>Precondition</b>		
<b>Flows of Event</b>		
<b>Basic flow</b>		
<b>4.1.0 Authenticating User</b>		
<b>Step</b>	<b>User Actions</b>	<b>System Actions</b>
1	Checking User	System will get user login status from login service and will redirect to login page if not logged in
<b>Postconditions</b>		

Persist the User is logged in before continuing checkout process

#### 4.1.1 Add Item to Shopping Cart for Authenticated user

Step	User Actions	System Actions
1	View Shopping Cart	System will calculate total price of shopping cart if user need to check out all items.
2	Selecting items for checkout	The system will calculate price for selected items only

#### 4.1.2 Calculate Taxes and Shipping

Step	User Actions	System Actions
1	Entering Shipping Address	System will calculate shipping cost for the items plus the taxes

#### 4.1.3 Update Item quantity to Shopping Cart

Step	User Actions	System Actions
1	Select Payment by Credit Card	System will call credit service to validate credit info
2	Select Payment by Paypal	System will use Paypal Service to Validate payment info



