**Use Case Name: Place Order**

**Actors:**

* Registered Shopper
* Non-registered Shopper
* Fulfillment System
* Billing System
* Inventory system

**Preconditions:**

* At least one item exist in shopping cart

**Normal Flow:**

1. The user will indicate that she wants to place order for the items that exist in his shopping cart.
2. User is already logged in to the system
3. The system will connect to inventory system
4. The system will check in the inventory for the availability for all items that exist in the shopping cart
5. All items are available with the chosen quantities
6. The system will display the billing information already defined before in the user profile
7. The system will display to the shipping information defined before in the user profile.
8. The user will confirm that the existing billing information should be used for this order.
9. The user will confirm that the existing shipping information should be used for this order.
10. The system will calculate the Due Taxes of the order as follows:
* Get the category under which each item in the shopping cart exist
* Get the taxes (%) defined for this category from the system settings
* Calculate the Total Price of each product (product unit price \* Quantity from this product)
* Calculate the taxes value = % \* Total price
* Get all the taxes of all products as defined above
* Sum the taxes of all products to get the Due Taxes of the order
1. System will connect to the fulfillment system
2. The system will send the shipping address and the chosen products to the fulfillment system
3. The system will receive the following information from the fulfillment system:
* Estimated Delivery Cost
* Estimated Delivery Date
1. The system will display the above data to the user
2. User chooses to confirm order
3. The system will calculate & Display the Total cost of the Order as follows:
	* Total Cost per item = quantity & cost per item
	* Total cost of all items = sum of (Total costs per items) for all items
	* Taxes = Due Taxes Calculated above
* Shipping fees = Estimated Delivery Cost defined above
	+ Total cost of order = Total cost of all items + Due Taxes Calculated above + Shipping fees
1. The system display to the user the below payment options:
* Online payment
* Cash on Delivery
1. User chooses Online payment
2. The system will connect to billing system
3. System will send the Total cost of order to the billing
4. System receive success for the payment
5. The system will indicate to the user that the user has been charged for the order.
6. The system will indicate to the user that the order has been placed.
7. System will generate an ID for the order & display to the user

**Alternate Flows:**

3A1: The user enters billing and shipping information for the order. The user desires to use shipping and billing information that differs from the information stored in her account. This alternate flow also applies if the user does not maintain billing and / or shipping information in their account, or if the user does not have an account.

1. The user will indicate that this order should use alternate billing or shipping information.
2. The user will enter billing and shipping information for this order.
3. The system will validate the billing and shipping information.
4. The use case continues

5A1: The user will discover an error in the billing or shipping information associated with their account, and will change it.

1. The user will indicate that the billing and shipping information is incorrect.
2. The user will edit the billing and shipping information associated with their account.
3. The system will validate the billing and shipping information.
4. The use case returns to step 2 and continues.

5A2: The user will discover an error in the billing or shipping information that is uniquely being used for this order, and will change it.

1. The user will indicate that the billing and shipping information is incorrect.
2. The user will edit the billing and shipping information for this order.
3. The use case returns to step 3A1 step 3.

10A1: The user will determine that the order is not acceptable (perhaps due to disatisfaction with the estimated delivery date) and will cancel the order.

1. The user will request that the order be cancelled.
2. The system will confirm that the order has been cancelled.
3. The use case ends.

**Post-conditions:**

* The order will be placed in the system.
* The user will have a tracking ID for the order.
* The user will know the estimated delivery date for the order.