### Tên: Bùi Việt Hưng MSSV:20225723 **Use Case: Place Order**

**1. Use Case Name**: Place Order

**2. Description**:  
This use case describes the process of a customer placing an order through the system, including reviewing the cart, checking stock availability, entering shipping information, calculating the shipping fee, and confirming the order.

**3. Actors**:

* **Customer**: The user who places an order in the system.
* **Software System**: Processes the order and displays information.

**4. Pre-conditions**:

* The customer has an account and is logged into the system.
* The shopping cart contains at least one product.

**5. Main Flow of Events**:

1. The customer views the shopping cart to check the selected products.
2. The system displays the cart.
3. The customer selects "Place Order."
4. The system checks stock availability:
   * If stock is insufficient, the system notifies the customer and ends the use case.
   * If stock is available, proceed to the next step.
5. The customer updates shipping information.
6. The system validates the provided shipping information:
   * If the information is invalid, the customer must re-enter it.
   * If valid, proceed to the next step.
7. The system calculates the shipping fee and displays the order details.
8. The system sends a confirmation notification to the customer.
9. The use case ends.

**6. Alternative Flows**:

* **Step 4**: If stock is insufficient, the system notifies the customer and ends the process.
* **Step 6**: If the shipping information is invalid, the customer must update it before proceeding.

**7. Post-conditions**:

* The order is recorded in the system.
* The customer receives an order confirmation notification.