Use Case Description

Brief Description

Create new order description

When the customer calls to order, the order clerk and system verify customer information, create a new order, add items to the order, verify payment, create the order transaction, and finalize the order.

Figure 5-13

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Intermediate Description

Flow of activities for scenario of Order Clerk creates telephone order

Main Flow:

- 1. Customer calls RMO and gets order clerk.
- 2 Order clerk verifies customer information. If a new customer, invoke Maintain customer account information use case to add a new customer.
- 3. Clerk initiates the creation of a new order.
- 4. Customer requests an item be added to the order.
- 5. Clerk verifies the item and adds it to the order.
- 6. Repeat steps 4 and 5 until all items are added to the order.
- 7. Customer indicates end of order; clerk enters end of order; system computes totals.
- 8. Customer submits payment; clerk enters amount; system verifies payment.
- 9. System finalizes order.

Exception Conditions:

- 5. If an item is not in stock, then customer can
 - a. choose not to purchase item, or
 - b. request item be added as a back-ordered item.
- 8. If customer payment is rejected due to bad-credit verification, then
 - a. order is canceled, or
 - b. order is put on hold until check is received.

Fully Developed Description

Use Case Name:	Create new order	
Scenario:	Create new telephone order	
Triggering Event:	Customer telephones RMO to purchase items from the catalog.	
Brief Description:	When customer calls to order, the order clerk and system verify customer information, create a new order, add items to the order, verify payment, create the order transaction, and finalize the order.	
Actors:	Telephone sales clerk.	
Related Use Cases:	Includes: Check item availability.	
Stakeholders:	Sales department: to provide primary definition. Shipping department: to verify information content is adequate for fulfillment. Marketing department: to collect customer statistics for studies of buying patterns.	
Preconditions:	Customer must exist. Catalog, Products, and Inventory items must exist for requested items.	
Postconditions:	Order and order line items must be created. Order transaction must be created for the order payment. Inventory items must have the quantity on hand updated. The order must be related (associated) to a customer.	
Flow of Activities:	Actor	System
	 Sales clerk answers telephone and connects to a customer. 	
	2. Clerk verifies customer information.	2.1 Display customer information.
	3. Clerk initiates the creation of a new order.	3.1 Create a new order.
	4. Customer requests an item be added to the order.	
	5. Clerk verifies the item (Check item availability use case).	5.1 Display item information.
	6. Clerk adds item to the order.	6.1 Add an order item.
	7. Repeat steps 4, 5, and 6 until all items are added to the order.	
	8. Customer indicates end of order; clerk enters end of order.	8.1 Complete order.
		8.2 Compute totals.
	9. Customer submits payment; clerk enters amount.	9.1 Verify payment.
		9.2 Create order transaction.
		9.3 Finalize order.
Exception Conditions:	2.1 If customer does not exist, then the clerk pauses this use case and invokes <i>Maintain customer information</i> use case.	
	2.2 If customer has a credit hold, then clerk transfers the customer to a customer service representative.	
	4.1 If an item is not in stock, then customer can	
	a. choose not to purchase item, or	
	b. request item be added as a back-ordered item.	
	9.1 If customer payment is rejected due to bad-credit verification, then	
	a. order is canceled, or	
	b. order is put on hold until check is received.	

Use Case Descriptions

• Write a *brief description* as shown in Chapter 3 for most use cases.

Use case	Brief use case description
Create customer account	User/actor enters new customer account data, and the system assigns account number, creates a customer record, and creates an account record.
Look up customer	User/actor enters customer account number, and the system retrieves and displays customer and account data.
Process account adjustment	User/actor enters order number, and the system retrieves customer and order data; actor enters adjustment amount, and the system creates a transaction record for the adjustment.

Use Case Descriptions

- Write a *fully developed use case description* for more complex use cases
- Typical use case description templates include:
 - Use case name
 - Scenario (if needed)
 - Triggering event
 - Brief description
 - Actors
 - Related use cases (<<includes>>)
 - Stakeholders
 - Preconditions
 - Post conditions
 - Flow of activities
 - Exception conditions

Fully Developed Use Case Description

Use case: Create customer account

Use case name:	Create customer account.	
Scenario:	Create online customer account.	
Triggering event:	New customer wants to set up account	t online.
Brief description:	Online customer creates customer account by entering basic information and then following up with one or more addresses and a credit or debit card.	
Actors:	Customer.	
Related use cases:	Might be invoked by the Check out sho	opping cart use case.
Stakeholders:	Accounting, Marketing, Sales.	
Preconditions:	Customer account subsystem must be available. Credit/debit authorization services must be available.	
Postconditions:	Customer must be created and saved. One or more Addresses must be created and saved. Credit/debit card information must be validated. Account must be created and saved. Address and Account must be associated with Customer.	
Flow of activities:	Actor	System
	1. Customer indicates desire to create customer account and enters basic customer information.	1.1 System creates a new customer.1.2 System prompts for customer addresses.
	2. Customer enters one or more addresses.	2.1 System creates addresses.2.2 System prompts for credit/debit card.
	3. Customer enters credit/debit card information.	 3.1 System creates account. 3.2 System verifies authorization for credit/debit card. 3.3 System associates customer, address, and account. 3.4 System returns valid customer account details.
Exception conditions:	1.1 Basic customer data are incomplete.2.1 The address isn't valid.3.2 Credit/debit information isn't valid.	

Fully Developed Use Case Description *Create customer account* (part 1)

Use case name:	Create customer account.	
Scenario:	Create online customer account.	
Triggering event:	New customer wants to set up account online.	
Brief description:	Online customer creates customer account by entering basic information and then following up with one or more addresses and a credit or debit card.	
Actors:	Customer.	
Related use cases:	Might be invoked by the Check out shopping cart use case.	
Stakeholders:	Accounting, Marketing, Sales.	
Preconditions:	Customer account subsystem must be available. Credit/debit authorization services must be available.	
Postconditions:	Customer must be created and saved. One or more Addresses must be created and saved. Credit/debit card information must be validated. Account must be created and saved. Address and Account must be associated with Customer.	

Fully Developed Use Case Description *Create customer account* (part 2)

Flow of activities:	Actor	System
	1. Customer indicates desire to create customer account and enters basic customer information.	 1.1 System creates a new customer. 1.2 System prompts for customer addresses.
	2. Customer enters one or more addresses.	2.1 System creates addresses.2.2 System prompts for credit/debit card.
	3. Customer enters credit/debit card information.	 3.1 System creates account. 3.2 System verifies authorization for credit/debit card. 3.3 System associates customer, address, and account. 3.4 System returns valid customer account details.
Exception conditions:	 1.1 Basic customer data are incomplet 2.1 The address isn't valid. 3.2 Credit/debit information isn't valid. 	e.

Use Case Description Details

- Related use cases <<includes>>
 - If one use case invokes or includes another
- Stakeholders
 - Anyone with an interest in the use case
- Preconditions
 - What must be true before the use case begins
- Post conditions
 - What must be true when the use case is completed
 - Use for planning test case expected results
- Flow of activities
 - The activities that go on between actor and the system
- Exception conditions
 - Where and what can go wrong

Use Case Description Details

- Use case name
 - Verb-noun
- Scenario (if needed)
 - A use case can have more than one scenario (special case or more specific path)
- Triggering event
 - Based on event decomposition technique
- Brief description
 - Written previously when use case was identified
- Actors
 - One or more users from use case diagrams

Another Fully Developed Use Case Description Example

Use case *Ship items*

Use case name:	Ship items.	
Scenario:	Ship items for a new sale.	
Triggering event:	Shipping is notified of a new sale to be	shipped.
Brief description:	Shipping retrieves sale details, finds each item and records it is shipped, records which items are not available, and sends shipment.	
Actors:	Shipping clerk.	
Related use cases	None.	
Stakeholders:	Sales, Marketing, Shipping, warehouse	e manager.
Preconditions:	Customer and address must exist. Sale must exist. Sale items must exist.	
Postconditions:	Shipment is created and associated with shipper. Shipped sale items are updated as shipped and associated with the shipment. Unshipped items are marked as on back order. Shipping label is verified and produced.	
Flow of activities:	Actor	System
	1. Shipping requests sale and sale item information.	1.1 System looks up sale and returns customer, address, sale, and sales item information.
	2. Shipping assigns shipper.	2.1 System creates shipment and associates it with the shipper.
	3. For each available item, shipping records item is shipped.	3.1 System updates sale item as shipped and associates it with shipment.
	 For each unavailable item, shipping records back order. 	4.1 System updates sale item as on back order.
	 Shipping requests shipping label supplying package size and weight. 	5.1 System produces shipping label for shipment.5.2 System records shipment cost.
Exception conditions:	 2.1 Shipper is not available to that location, so select another. 3.1 If order item is damaged, get new item and updated item quantity. 3.1 If item bar code isn't scanning, shipping must enter bar code manually. 5.1 If printing label isn't printing correctly, the label must be addressed manually. 	

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Fully Developed Use Case Description *Ship items* (part 1)

Use case name:	Ship items.	
Scenario:	Ship items for a new sale.	
Triggering event:	Shipping is notified of a new sale to be shipped.	
Brief description:	Shipping retrieves sale details, finds each item and records it is shipped, records which items are not available, and sends shipment.	
Actors:	Shipping clerk.	
Related use cases	None.	
Stakeholders:	Sales, Marketing, Shipping, warehouse manager.	
Preconditions:	Customer and address must exist. Sale must exist. Sale items must exist.	
Postconditions:	Shipment is created and associated with shipper. Shipped sale items are updated as shipped and associated with the shipment. Unshipped items are marked as on back order. Shipping label is verified and produced.	

Fully Developed Use Case Description *Ship items* (part 2)

Flow of activities:	Actor	System
	 Shipping requests sale and sale item information. 	1.1 System looks up sale and returns customer, address, sale, and sales item information.
	2. Shipping assigns shipper.	2.1 System creates shipment and associates it with the shipper.
	3. For each available item, shipping records item is shipped.	3.1 System updates sale item as shipped and associates it with shipment.
	 For each unavailable item, shipping records back order. 	4.1 System updates sale item as on back order.
	5. Shipping requests shipping label supplying package size and weight.	5.1 System produces shipping label for shipment.5.2 System records shipment cost.
Exception conditions:	 2.1 Shipper is not available to that location, so select another. 3.1 If order item is damaged, get new item and updated item quantity. 3.1 If item bar code isn't scanning, shipping must enter bar code manually. 5.1 If printing label isn't printing correctly, the label must be addressed manually. 	