Corin Sandford

Project: Marketplace

Requirements:

For the Activity Diagram and Sequence Diagram, I will use UR-07, UC-1.7, Place Order.

UR-07, UC-1.7, Place Order. Describes how a user places an order for a product they wish to purchase.

UR-06, UC-1.6, Log In Describes how to log in to a User account from the home page.

UR-02, UC-1.13, Leave Review. Describes how to leave a review for a product that a User has previously purchased.

UR-12, UC-1.12, Access Seller Interface. Describes how a Seller can view their Seller Interface to manage their storefront.

UR-05, UC-1.5, Track Order. Describes how to track the status of an order a User has previously placed.

UR-13, UC-1.14, Add Credit Card. Describes how a User can add a credit card and its billing address to their saved billing information.

Use Case Documents:

UR-07

Use Case ID:	UC-1.7	**Created by:**	Corin Sandford
Use Case Name:	Place Order	**Date Created:**	03/06/2017
Description:	Customer wants to place an order for an item on the website		

Actors:	Customer		
Pre-Condition:	1: User has logged into the website with his/her credentials (UC-1.6) 2: User has searched for and entered the page for an item they desire to purchase (UC-1.1)		
Post-Condition:	User has placed an order for a product		
Frequency of Use:	Any time a user wants to purchase a product on the website		
Flow of Event:		**Actor action**	**System response**
	1	Select product quantity and click the “Add To Cart” link on the product page.	Check for product inventory status then fetch and display to the “Cart” page, displaying all the items in the user’s cart.
	2	Click “Check Out” link	Fetch and display “Checkout” page, displaying fields for user shipping address, billing information, promo

			codes, and button for “Review Order”.
	3	Enter shipping address, billing information, and/or promo codes.	
	4	Click “Review Order” button.	Check checkout page for required information and fetch and display “Review Order” page, displaying all order information and button for “Place Order”.
	5	Review order information and click “Place Order”	Initiate new order for product with the Product class
	6		Add new order to User’s order list.
	7		E-mail order confirmation, and fetch and display the “Order Confirmation” page.
Exceptions:	1: User would like to continue shopping, and may select this option on the “Cart” screen instead of the “Check Out” link. 2: User reviews order information and desires to change some information. “Edit” buttons next to order information sections return user to “Checkout” page navigated to in step 2 with the their fields still filled in as they left it. 3: User’s credit card is rejected, in which case, the system should display an error message instead of order confirmation in step 5. 4: Product not in stock, in which case the system should display an error message and return the User to the product page.. 5: User does not enter a quantity (leaves it at 0), in which case the system should display an error message and return the User to the product page. 6: User does not correctly complete order information on “Checkout” page, in which case, the system should display an error message, save the information in the fields and redisplay the “Checkout” page, marking the missing information.		
Developer notes:			

UR-06

Use Case ID:	UC-1.6	**Created by:**	Corin Sandford
Use Case Name:	Log In	**Date Created:**	03/06/2017

Description:	Customer wants to login to account.

Actors:	Customer		
Pre-Condition:	User is on the home page of the website.		
Post-Condition:	User has logged in to his/her account.		
Frequency of Use:	Every-time user visits and wants to make a purchase or access member pages.		
Flow of Event:		**Actor action**	**System response**
	1	Click on the "My Account" drop-down menu and select the "Log In" option.	Fetch and display the "Log In" web-page which displays username and password text entry boxes.
	2	Enter username and password into respective fields.	
	3	Click the "Log In" button	Check the credentials of the user and return the home page. Change the "Log In" option in the my account dropdown menu to "Log Out" and display the User's username above the "My Account" drop-down menu.
Exceptions:	1: User enters incorrect credentials and Log In button will return the "Log In" web page with an error message.		
Developer notes:	Detects incorrect username and incorrect password and informs the user which is incorrect.		

UR-02

Use Case ID:	UC-1.13	**Created by:**	Corin Sandford
Use Case Name:	Leave Review	**Date Created:**	03/12/2017
Description:	Customer would like to leave a review for an item they purchased		

Actors:	Customer		
Pre-Condition:	1: User has purchased a product (UC-1.7) 2: User has navigated to the order for the product on the "Orders" page (UC-1.3)		
Post-Condition:	User has successfully left a review for the product they purchased		
Frequency of Use:	Potentially whenever a product is purchased; probably less often		
Flow of Event:		**Actor action**	**System response**

	1	User clicks the “Leave Review” button beside their product on the “Orders” page.	Fetch and display the “Review” page for the product purchased by the user.
	2	User enters information for their review. This includes: number of stars, text review.	
	3	User clicks “Set Review” button.	Check User input for both fields and create and add Review object to the product’s list of reviews
	4		Fetch and display the “Review Set” page which contains a link back to the “Orders” page.
Exceptions:	1: User clicks “Set Review” but does not enter a number of stars and/or a text review. The system should return the user to the “Review” page and indicate the field(s) that need to be filled in.		
Developer notes:			

UR-12

Use Case ID:	UC-1.12	**Created by:**	Corin Sandford
Use Case Name:	Access Seller Interface	**Date Created:**	3/9/2017
Description:	A user wishes to access the Seller Interface page.		

Pre-Condition:	User has logged into the website with his/her credentials (UC-1.6)		
Post-Condition:	User has opened and viewed the Seller Interface page.		
Frequency of Use:	Whenever a user wants to manage their storefront on the website.		
Flow of Event:		**Actor action**	**System response**
	1	Under “My Account” dropdown menu, click the “Seller Interface” link.	Fetch and display the Seller Interface page for the user where the user can set up and manage their storefront on the website.
Exceptions:	User has not set up their storefront, the Seller Interface page should take the user through the steps to set up their storefront before bringing up the Seller Interface page.		
Developer notes:			

UR-05

Use Case ID:	UC-1.5	**Created by:**	Corin Sandford
Use Case Name:	Track Order	**Date Created:**	03/06/2017
Description:	Customer wants to track an order they have placed.		

Actors:	Customers		
Pre-Condition:	User has opened the website and logged into their account (UC-1.6) User has opened their order history (UC-1.3)		
Post-Condition:	User has viewed the tracking information provided for their order.		
Frequency of Use:	Every time a User wants to track their order.		
Flow of Event:		**Actor action**	**System response**
	1	Click on the "Track Order" link next to the order to be tracked.	Navigate to track order page for the order this link was next to.
Exceptions:	1. Track order page displays that order is untracked because shipping information has not been received by the shipper.		
Developer notes:			

UR-13

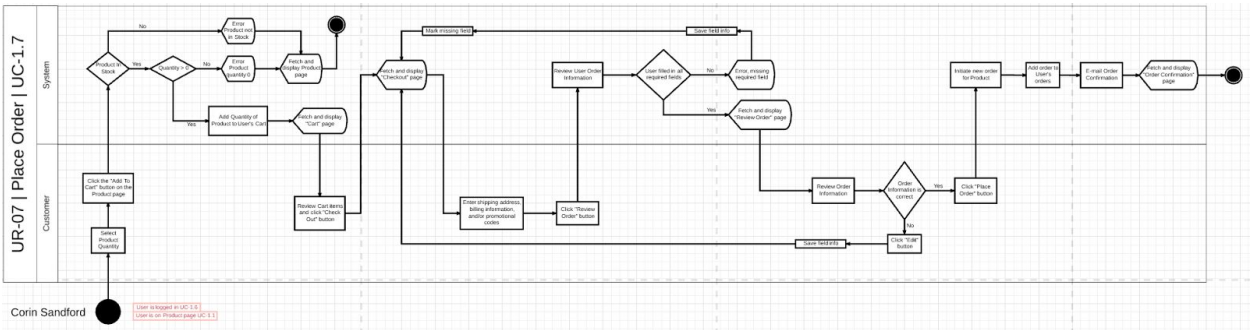
Use Case ID:	UC-1.14	**Created by:**	Corin Sandford
Use Case Name:	Add Credit Card	**Date Created:**	03/12/2017
Description:	User wants to add a credit card to their account		

Actors:	Customer		
Pre-Condition:	User has logged in (UC-1.6)		
Post-Condition:	User has a credit card saved to their account.		
Frequency of Use:			
Flow of Event:		**Actor action**	**System response**
	1	Under the "My Account" drop down menu, click the "Account Settings" button.	Fetch and display the "Account Settings" page for the User.
	2	On the "Account Settings" page, click the	Fetch and display the "Billing Information" page, with the User's

		“Billing Information” link.	saved IPaymentMethod items.
	3	On the “Billing Information” page, click the “Add New Information” button.	Fetch and display the “Add New Billing Information” page with fields for the user to enter credit card information and a billing address.
	4	User enters the credit card information and billing address.	
	5	On the “Add New Billing Information Page”, click the “Done” button.	Retrieve the information in the billing information fields and create a new “CardPayment” object to add to the User’s IPaymentMethod list.
	6		Fetch and display the “Billing Information” page which will now show the User’s new IPaymentMethod at the end of the current list.
Exceptions:	1: User enters incorrect billing information (e.g. wrong credit card number), in which case the system should return the user to the “Add New Billing Information” page and mark the incorrectly filled fields.		
Developer notes:			

Activity Diagram:

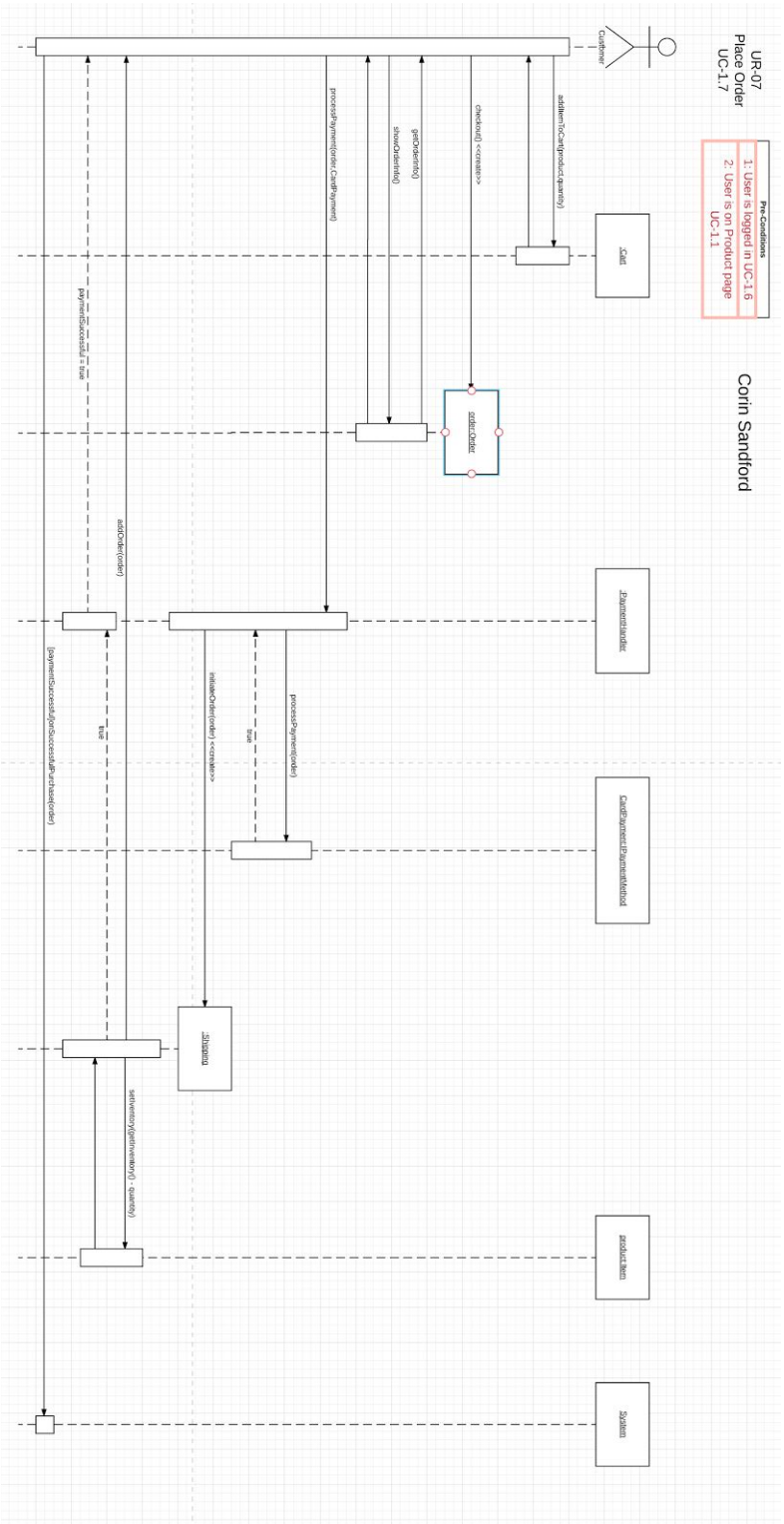
For UC-1.7, UR-07, Place Order:



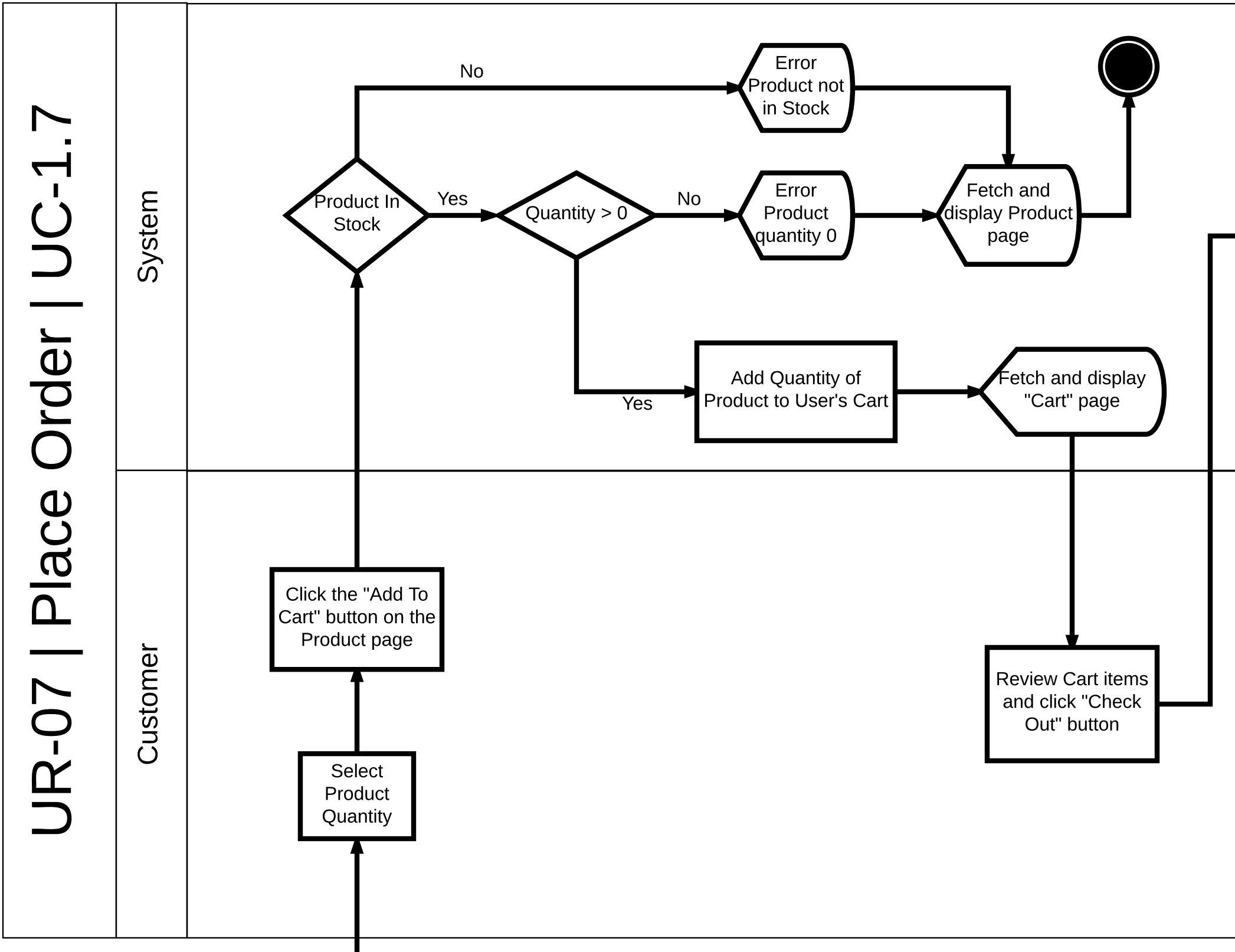
The above is a screenshot from my browser as I was creating the Activity Diagram. I have also concatenated the Activity Diagram as a PDF to this document for easier reading (though the way the program output the document as a PDF is annoying). Ordering goes left-to-right, top-to-bottom.

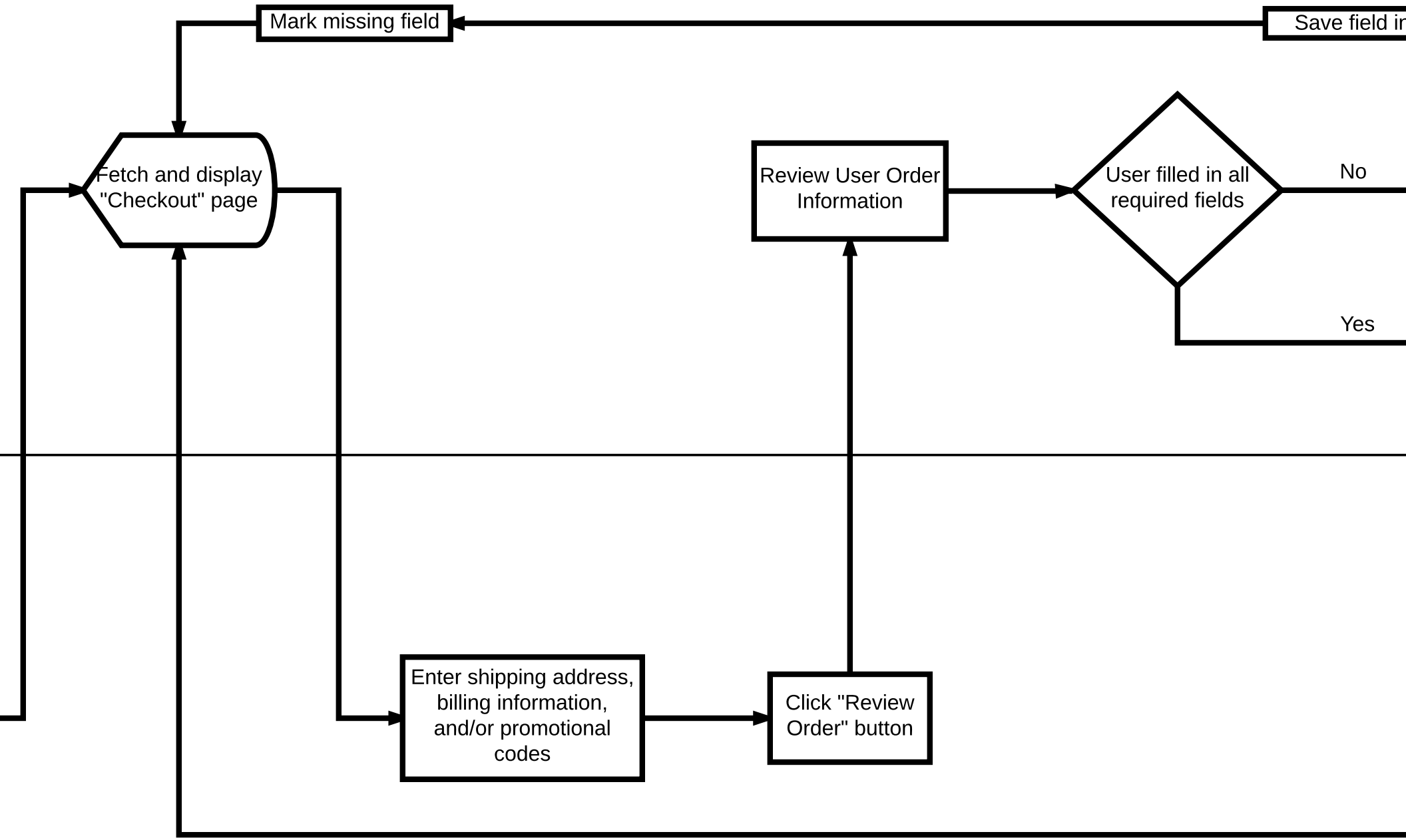
User Interactions:

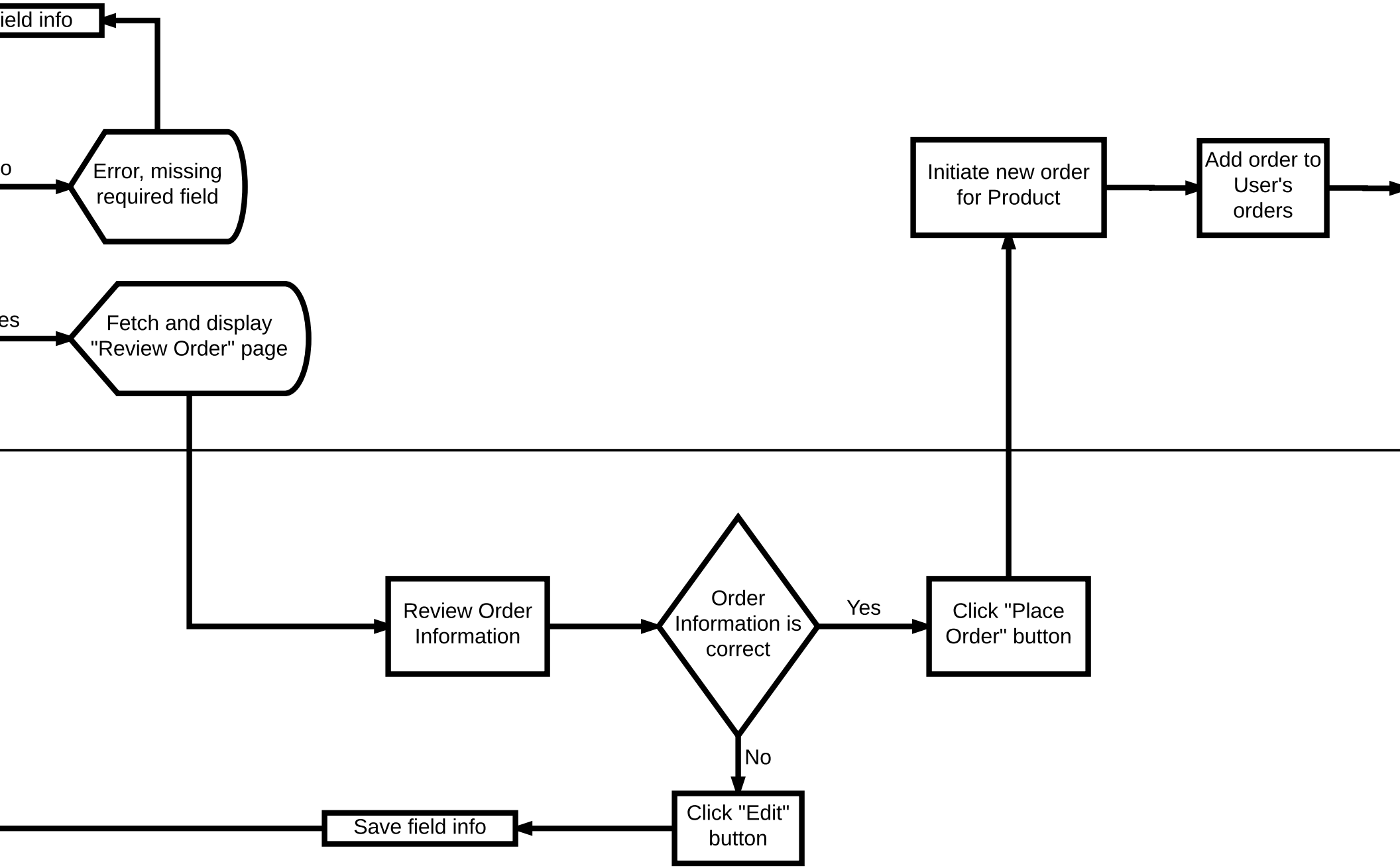
For UC-1.7, UR-07, Place Order:

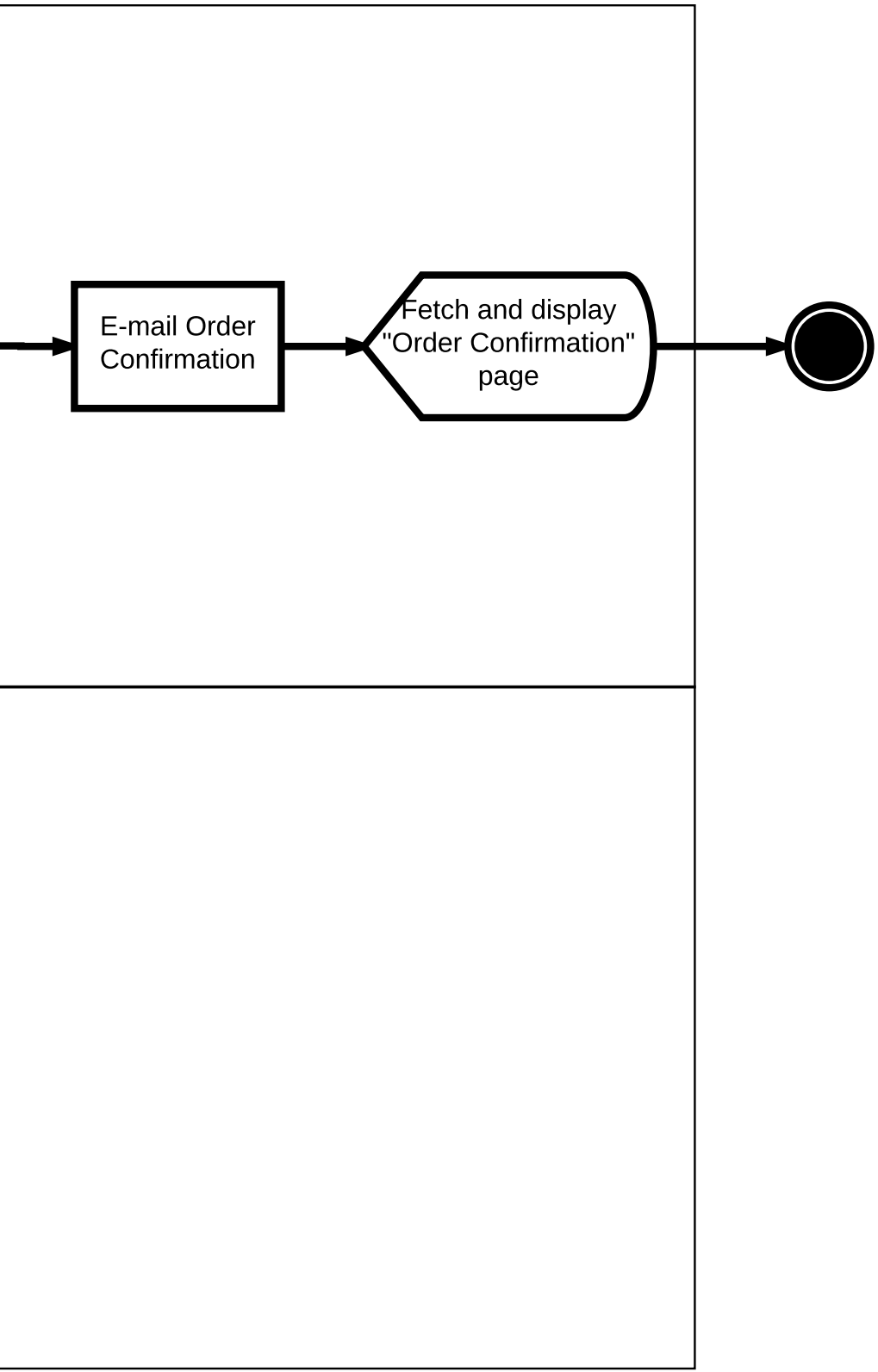


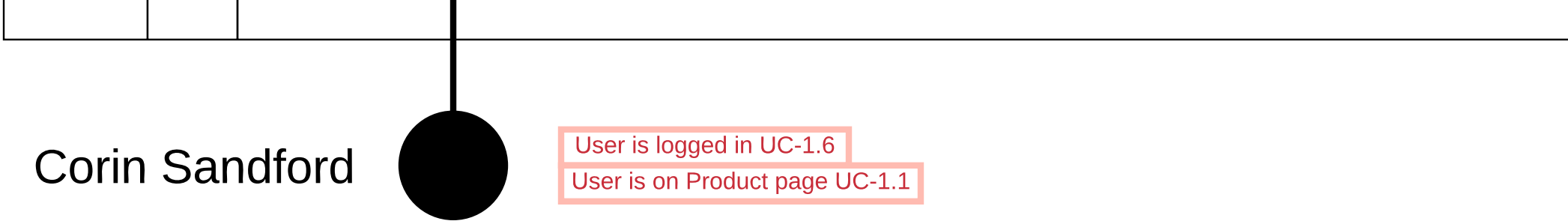
The above is a screenshot of the Sequence Diagram as I was working on it. I have also concatenated the Sequence Diagram as a PDF to this document (though the way the program output the document as a PDF is annoying). Ordering goes left-to-right, top-to-bottom.


UR-07 | Place Order | UC-1.7
System
Customer
Select Product Quantity
Click the "Add To Cart" button on the Product page
Product In Stock
No
Error Product not in Stock
Yes
Quantity > 0
No
Error Product quantity 0
Fetch and display Product page
Yes
Add Quantity of Product to User's Cart
Fetch and display "Cart" page
Review Cart items and click "Check Out" button


Mark missing field
Save field in
Fetch and display "Checkout" page
Review User Order Information
User filled in all required fields
No
Yes
Enter shipping address, billing information, and/or promotional codes
Click "Review Order" button


ield info
o
Error, missing required field
es
Fetch and display "Review Order" page
Review Order Information
Order Information is correct
Yes
Click "Place Order" button
Initiate new order for Product
Add order to User's orders
No
Click "Edit" button
Save field info


E-mail Order Confirmation
Fetch and display "Order Confirmation" page


Corin Sandford
User is logged in UC-1.6
User is on Product page UC-1.1

UR-07
Place Order
UC-1.7

Pre-Conditions
1: User is logged in UC-1.6
2: User is on Product page UC-1.1

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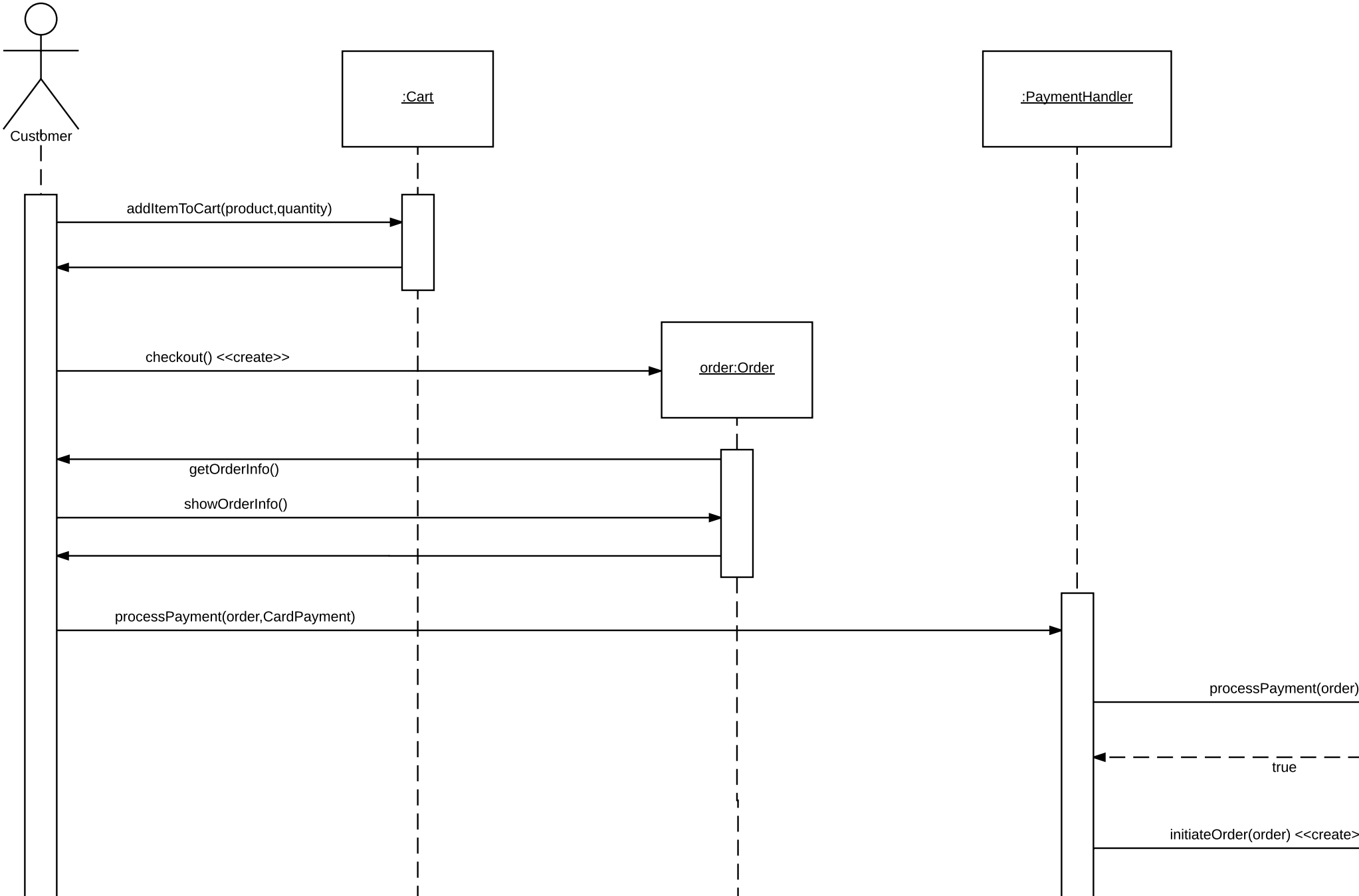
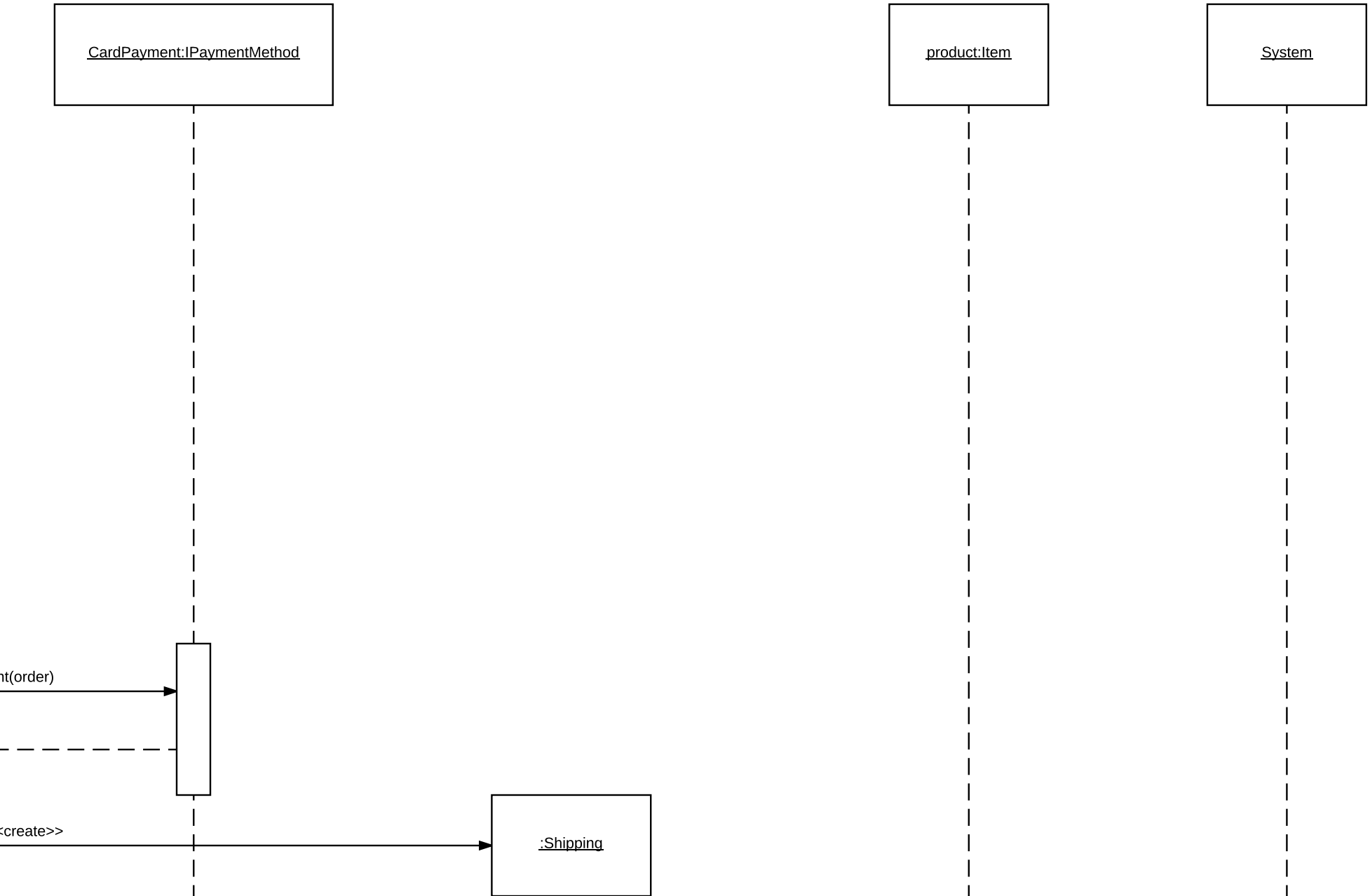
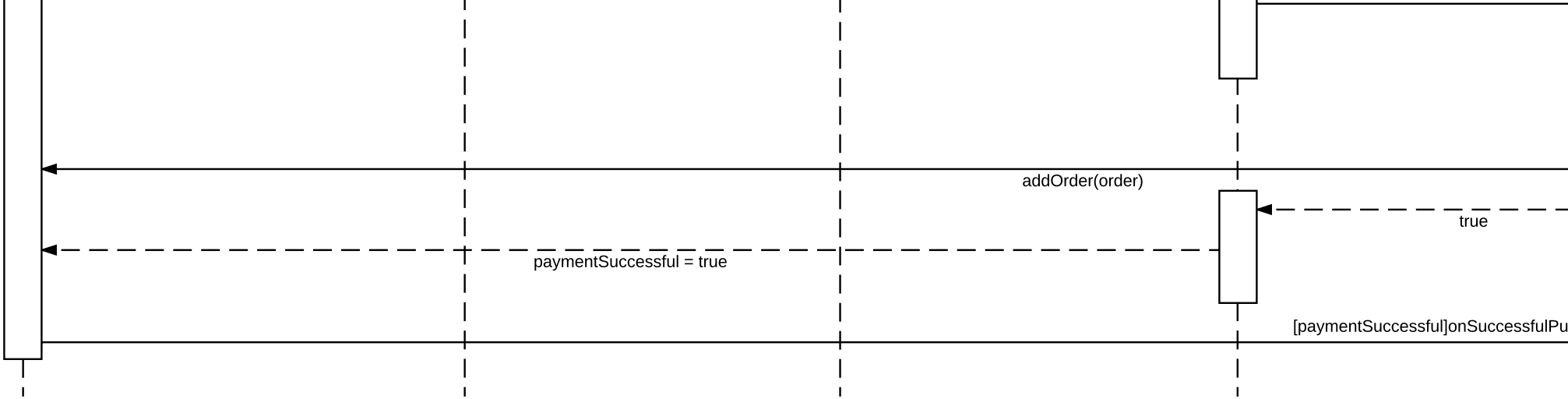
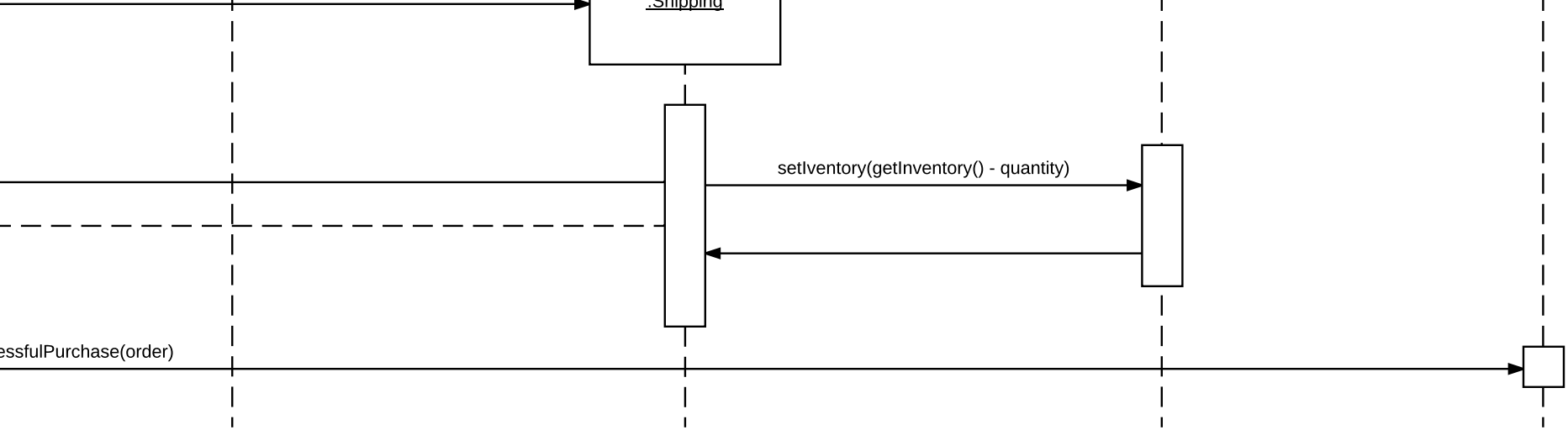



CardPayment:IPaymentMethod
product:Item
System
nt(order)
<create>>
:Shipping


addOrder(order)
true
paymentSuccessful = true
[paymentSuccessful]onSuccessfulPu


:Shipping
setIventory(getInventory() - quantity)
essfulPurchase(order)