

[illegible]

Use Case Name: Add Item to Cart

Scope: Store

Level: user goal

Primary Actor: customer

Stakeholders and Interests:

- Customer: wants to be able to purchase multiple different items
- Company: wants to be able to keep track of the items the customer purchases so that they can get their items in a timely manner

Preconditions: Customer wants to add an item to their cart

Success Guarantee (or Postconditions):

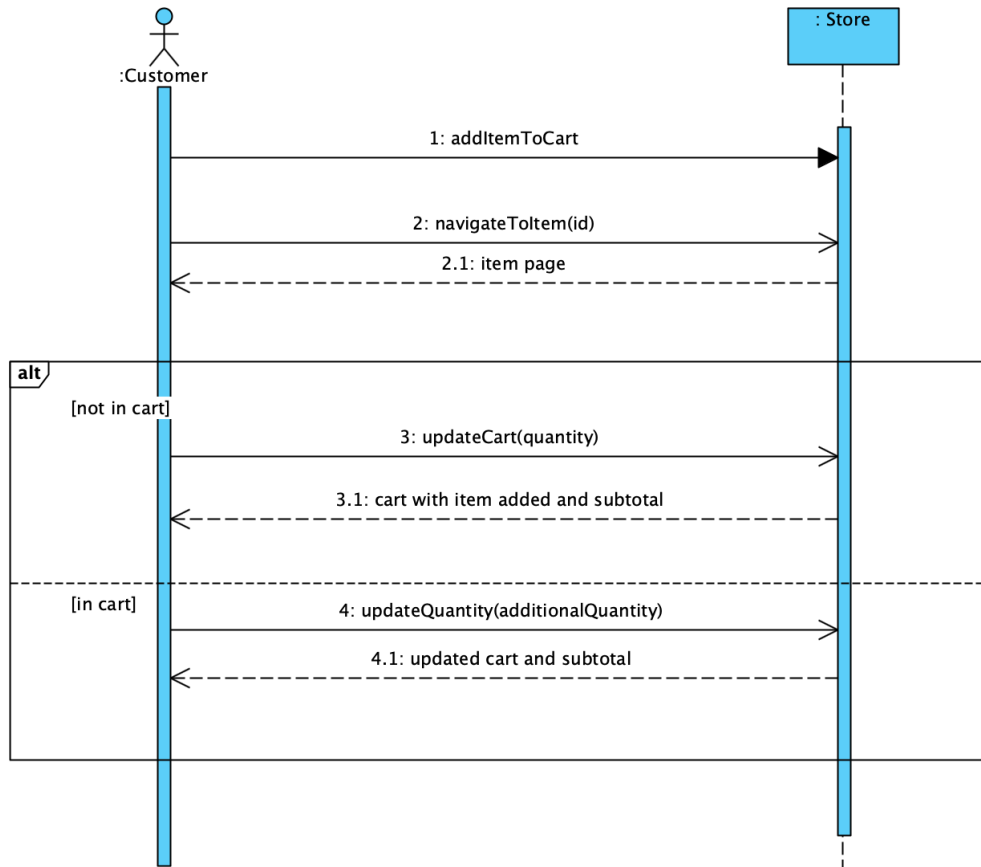
The item is added to the cart, and the subtotal is updated

Main Success Scenario (or Basic Flow):

1. Customer navigates to the item
2. Customer clicks add to cart button
3. Customer enters the quantity they wish to purchase
4. Items are added to cart
5. Subtotal is updated
6. The customer is informed that the items have been successfully added to the cart

Extensions (or Alternative Flows):

- 2a. Item is already in cart:
 1. Customer selects how many they wish to add to the cart
 2. The customer's selection is added to their previous selection





Operation: addToCart
Cross References: Add Item to Cart
Preconditions: There is an instance of a cart created
Postconditions: The cart has an item added to it

Operation: searchForItem(id)
Cross References: Add Item to Cart
Preconditions: The customer knows what item they are searching for
Postconditions: The customer has navigated to the item page

Operation: updateCart(quantity)
Cross References: Add Item to Cart
Preconditions: The customer has navigated to the item page, and the item isn't in the cart
Postconditions: The item and its desired quantity is added to the cart

Operation: updateQuantity(additionalQuantity)
Cross References: Add Item to Cart
Preconditions: The customer has navigated to the item page, and the item is already in the cart
Postconditions: The quantity of the item in the cart is increased by additionalQuantity

Use Case Name: Remove Item from Cart

Scope: Store

Level: user goal

Primary Actor: customer

Stakeholders and Interests:

- Customer: wants to be able to keep track of the items to be purchased, and make adjustments to them (remove, alter number of) if needed.
- Company: wants to be able to properly track an order, including when items are removed, so that purchases are accurate.

Preconditions: Customer wants to remove an item from their cart

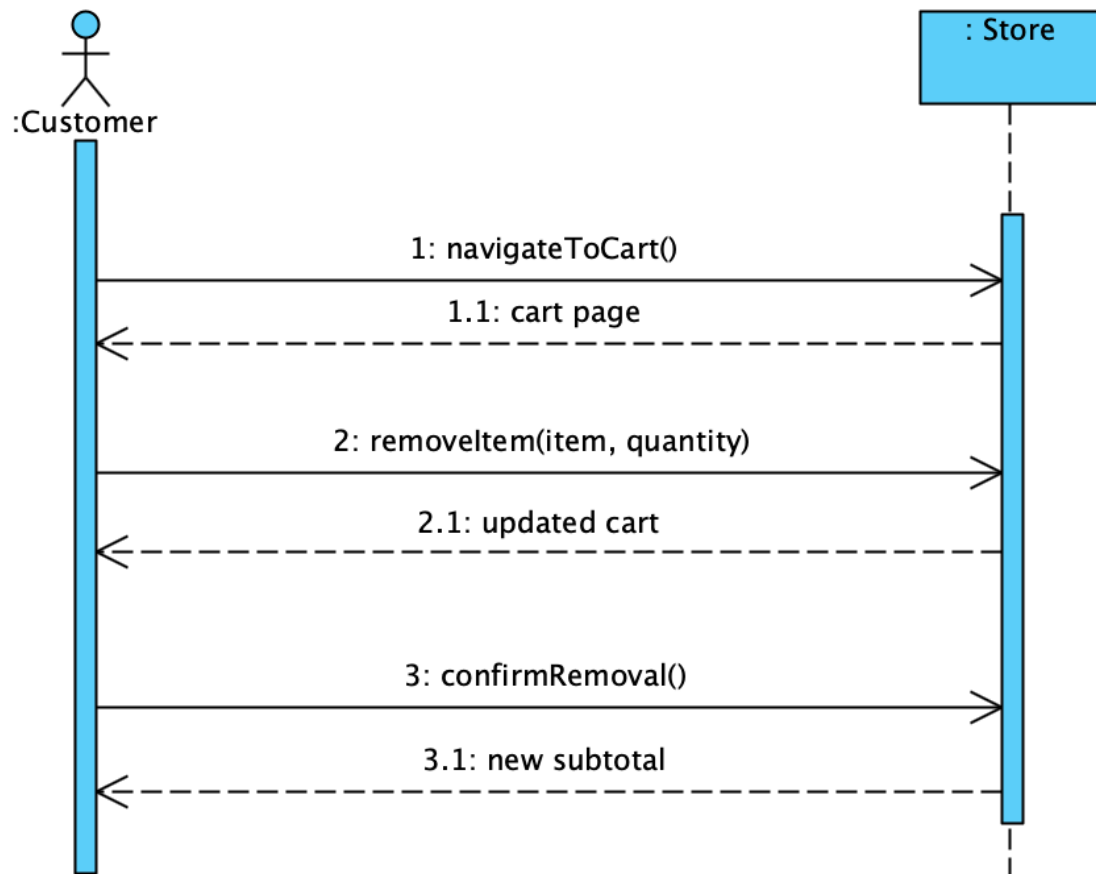
Success Guarantee (or Postconditions): The item the customer wanted removed from the cart will be removed and the subtotal calculated.

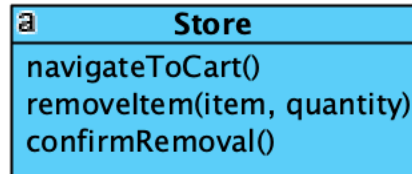
Main Success Scenario (or Basic Flow):

1. Customer navigates to their current shopping cart instance
2. The customer clicks on the item to be removed from the cart
3. The customer clicks on the UPDATE ORDER button
4. The customer clicks remove item
5. The machine shows a verification that the user wants to remove the item
6. The customer selects yes
7. The subtotal is updated

Extensions (or Alternative Flows):

- 4a. There are multiple of the same item in the cart
 1. Customer selects how many of the item they would like to remove
 2. Customer confirms the amount to remove
- 6a. The customer doesn't want to remove the item from cart
 1. The customer changes their mind and selects no
- 7a. There is no resulting change in the order
 1. The subtotal is not changed and thus not updated





Operation: navigateToCart()
Cross References: Remove Item from Cart
Preconditions: The cart exists
Postconditions: The cart is displayed to the user

Operation: removeItem(item, quantity)
Cross References: Remove Item from Cart
Preconditions: there are at least “quantity” instances of “item” in the cart
Postconditions: the item is

Operation: confirmRemoval()
Cross References: Remove Item from Cart
Preconditions: The customer has selected to remove an item from their cart
Postconditions: If confirmed, the removal is finalized
Else, the removal is cancelled

Use Case Name: Make Account

Scope: Store

Level: user-goal

Primary Actor: Customer

Stakeholders and Interests:

- Customer: wants to store their information so that it's saved for next time
- Company: has to keep track of the customer's login information

Preconditions: Customer is asked if they want to create an account

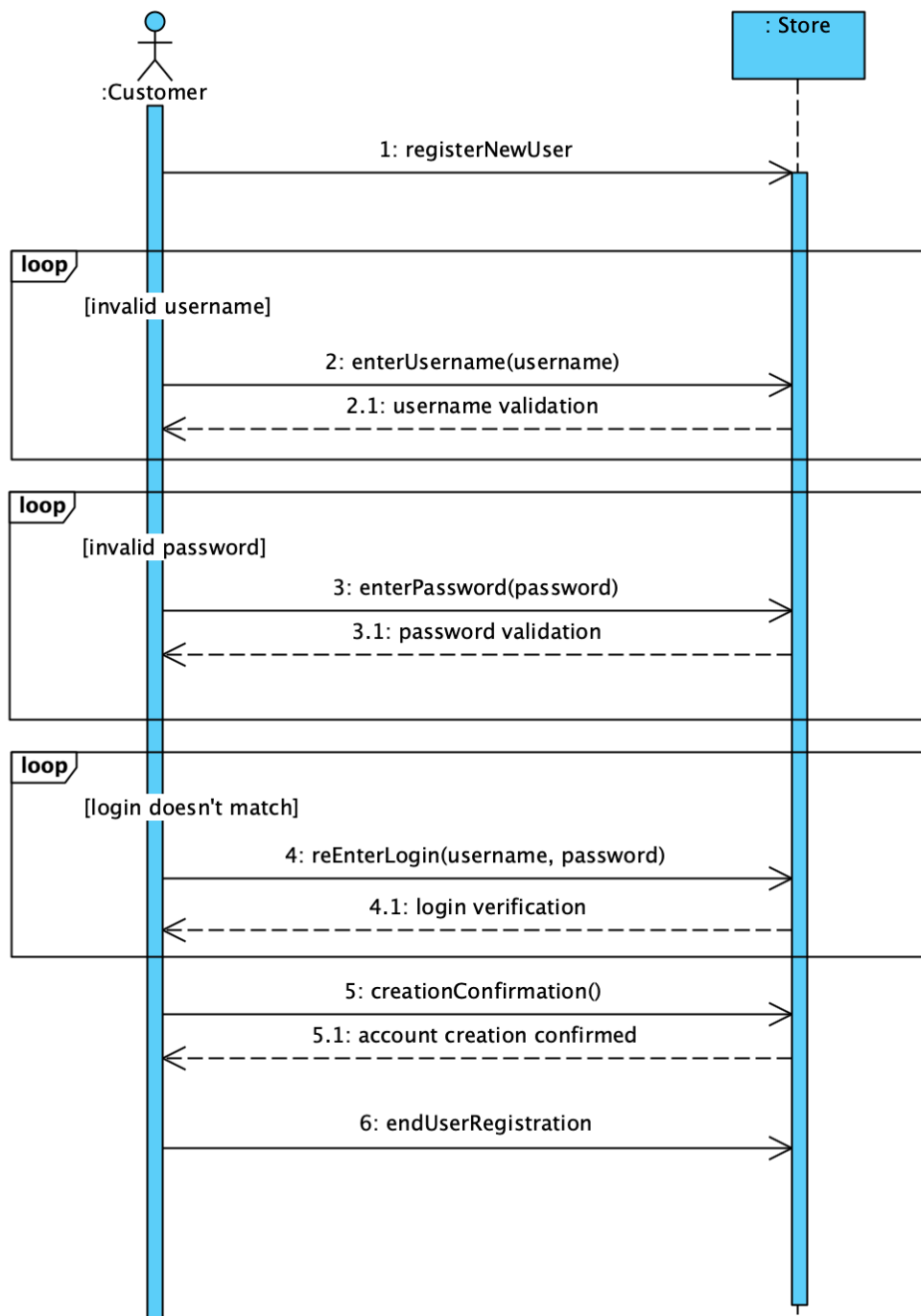
Success Guarantee (or Postconditions): The customer's login information is saved and their cart is tied to their account

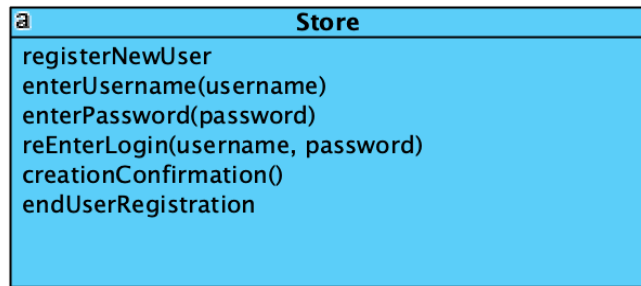
Main Success Scenario (or Basic Flow):

1. Customer selects they want to create an account
2. The customer is prompted for a username
3. The customer is prompted for a password
- Repeat steps 2 and 3 until the login is validated*
4. The user is asked to re-enter their username and password for validation
5. The customer is asked to confirm the account creation

Extensions (or Alternative Flows):

- 2a. The username is invalid
 1. The customer is informed why the username is invalid (either it is taken or does not meet requirements)
 2. The customer is asked to enter another username
- 3a. The password is invalid
 1. The customer is informed why the password is invalid (i.e. the requirements it violates)
 2. The customer is asked to enter another password
- 4a. The customer's username does not match
 1. The customer is informed that their usernames don't match
 2. The customer is prompted to try again
- 4b. The customer's password doesn't match
 1. The customer is informed that their passwords don't match
 2. The customer is prompted to try again





Operation: registerNewUser
Cross References: Make Account
Preconditions: The customer has elected to create an account.
Postconditions: A new account is registered.

Operation: enterUsername(username)
Cross References: Make Account
Preconditions: The customer is prompted to enter a username.
Postconditions: The username is validated.

Operation: enterPassword(password)
Cross References: Make Account
Preconditions: The customer is prompted to enter a password.
Postconditions: The password is validated.

Operation: reEnterLogin(username, password)
Cross References: Make Account
Preconditions: The customer is prompted to re-enter their valid username and password
Postconditions: The two logins are compared, then validated if they match

Operation: creationConfirmation()
Cross References: Make Account
Preconditions: The two logins matched
Postconditions: If the user confirms, the account is created
Else, account creation is canceled

Operation: endUserRegistration
Cross References: Make Account
Preconditions: The registration was successful
Postconditions: The process of creating an account ends

Use Case Name: View Product Availability

Scope: Store

Level: Subfunction

Primary Actor: Company

Stakeholders and Interests:

- Customer: Wants to have the option to pick from a variety of items and have what is needed available.
- Company: Wants to be able to properly track the inventory of all of the products available.

Preconditions: The website is up and running and the product being looked for is valid and have an unique id and product page

Success Guarantee (or Postconditions): The availability of a product is checked and updated if needed

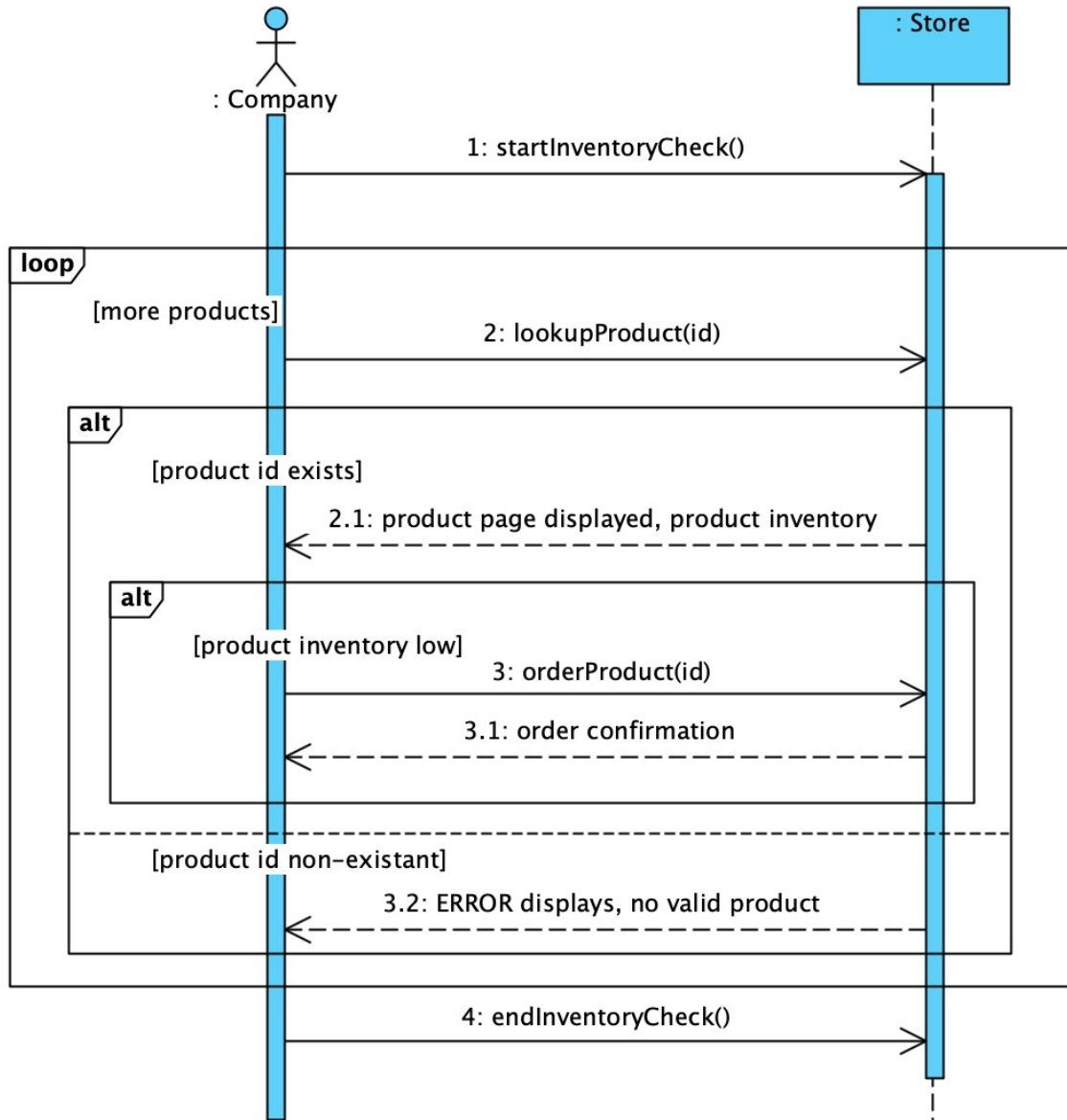
Main Success Scenario (or Basic Flow):

1. A product inventory is needed to be checked
2. The product is looked up based on its unique id
3. The inventory available will be displayed on the product page
4. The company will request more inventory to be shipped to the containment center if product is getting low.

Steps 2-4 can be repeated if multiple products are having their inventory checked

Extensions (or Alternative Flows):

- 2a. The unique id does not exist
 1. The product being looked up doesn't exist and results an ITEM NOT FOUND message



Product View
startInventoryCheck() lookupProduct(id) orderProduct(id) endInventoryCheck()

Operation: startInventoryCheck()

Cross References: View Product availability

Preconditions: Website is up and running and has products with different product ids

Postconditions: The inventory checking has been started

Operation: lookupProduct(id)

Cross References: View Product availability

Preconditions: Product exists in the database and is coupled with a unique id

Postconditions: Product page is displayed from database

Operation: orderProduct(id)

Cross References: View Product availability

Preconditions: Product exists in the database and is coupled with a unique id

Postconditions: Product is ordered to warehouse

Operation: endInventoryCheck()

Cross References: View Product availability

Preconditions: All products need to be inventory checked have been

Postconditions: The inventory checking has been finished

Use Case Name: Delete a Product

Scope: Store

Level: Subfunction

Primary Actor: Company

Stakeholders and Interests:

- Customer: Wants to have the option to pick from a variety of items and have what is needed available.
- Company: Wants to remove product from the store to generate more revenue and make more space for more popular items

Preconditions: There is a product the company wants to remove

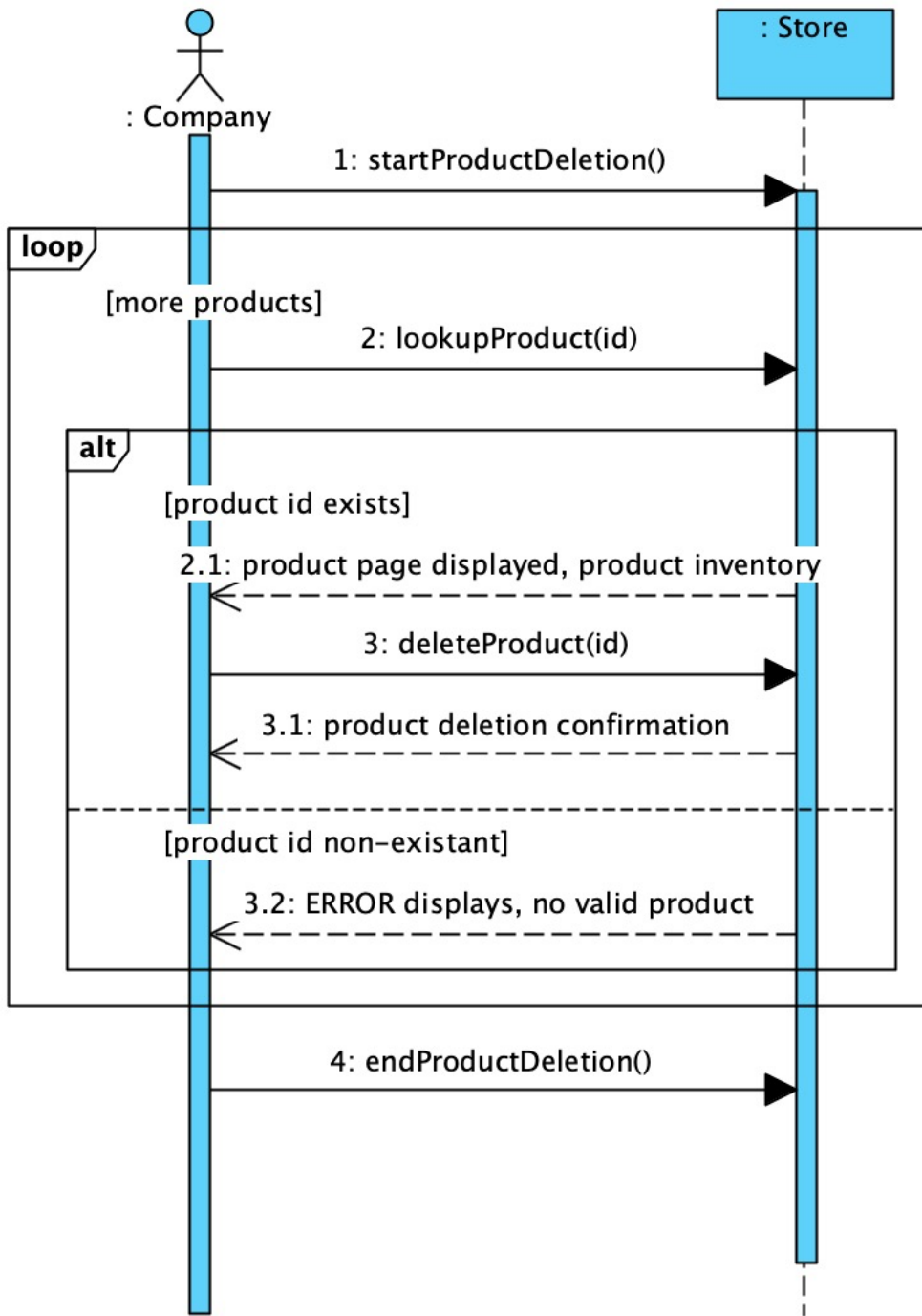
Success Guarantee (or Postconditions): The product is removed from the site

Main Success Scenario (or Basic Flow):

1. A product is deemed needed to be removed from the store
 2. The product is deleted from the sites database based on its unique id
 3. The products id is freed to be used by another future product
 4. The products page is removed as result of a freed unique id
- Steps 2-4 can be repeated if multiple products are being deleted*

Extensions (or Alternative Flows):

- *a. At any point the products removal process can stop, resulting in leaving the product on the store
- 2a. The unique id does not exist
- 1. The product being looked up doesn't exist and results an ITEM NOT FOUND message



Product Deletion
startProductDeletion() lookupProduct(id) deleteProduct(id) endProductDeletion()

Operation: startProductDeletion()

Cross References: Product Deletion

Preconditions: Website is up and running and has products with different product ids

Postconditions: The product deletion has been started

Operation: lookupProduct(id)

Cross References: Product Deletion

Preconditions: Product exists in the database and is coupled with a unique id

Postconditions: Product page is displayed from database

Operation: deleteProduct(id)

Cross References: Product Deletion

Preconditions: Product exists in the database and is coupled with a unique id

Postconditions: Product is deleted from database

Operation: endProductDeletion()

Cross References: Product Deletion

Preconditions: All products needed to be deleted have been

Postconditions: The inventory deletion has been finished

Use Case Name: Stock Item

Scope: Store

Level: subfunction

Primary Actor: Company

Stakeholders and Interests:

- Company: wants to be able to add their item to the shop so it can be sold
- Customer: wants to be able to purchase the item once it is stocked

Preconditions: The item is out of stock

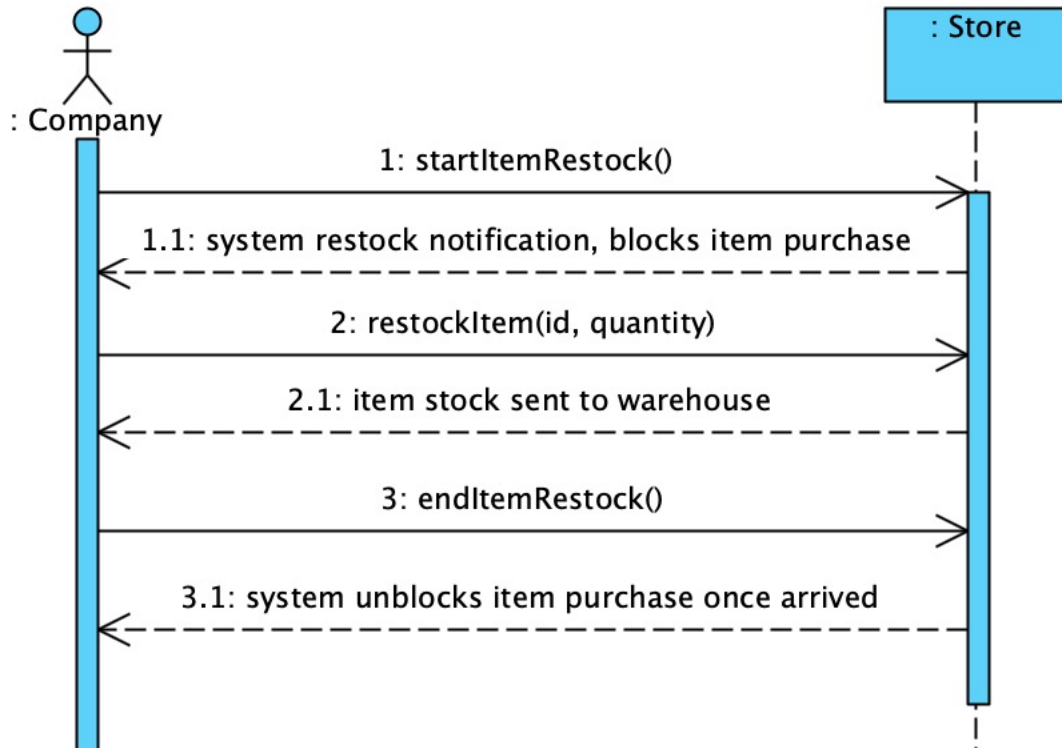
Success Guarantee (or Postconditions): The item is stocked to the appropriate level

Main Success Scenario (or Basic Flow):

1. The system notifies the company that the item is out of stock
2. The system marks the item as unavailable to purchase
3. The company gets more of the item
4. The company sends the ordered items to the store's warehouse
5. Company updates the amount available in the system
6. System refreshes the item's stock
7. The item is made available for sale again

Extensions (or Alternative Flows):

- 3a. Company decides not to add more of the item
 1. The system confirms the choice, and resends the message in a week



Restock Store
startRestockItem() itemRestock(id, quantity) endRestockItem()

Operation: startRestockItem()

Cross References: Restock Item

Preconditions: Website is up and running and has products with different product ids

Postconditions: Restock has been started

Operation: itemRestock(id, quantity)

Cross References: Restock Item

Preconditions: Product exists in the database and is coupled with a unique id

Postconditions: Product is ordered to warehouse in the specific quantity mentioned

Operation: endRestockItem()

Cross References: Restock Item

Preconditions: All products needed to be restocked have been

Postconditions: Restock has been finished

Use Case Name: Add Item to Wishlist

Scope: Customer

Level: user-goal

Primary Actor: Customer

Stakeholders and Interests:

- Customer: Wants to add the product to their wishlist.

Preconditions: The product must be in the store.

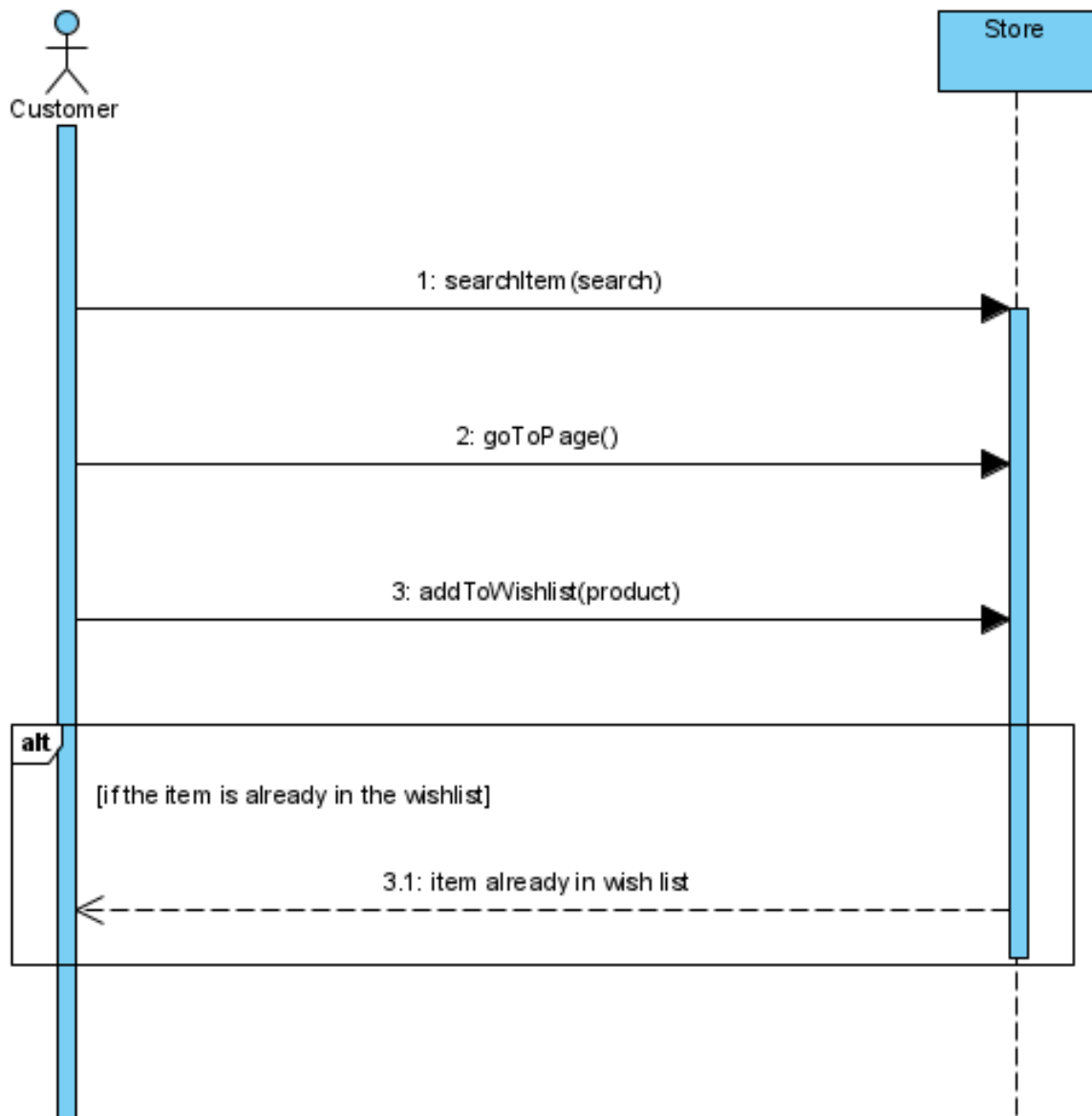
Success Guarantee (or Postconditions): The product will be added to the user's wishlist.

Main Success Scenario (or Basic Flow):

1. User searches for the product.
2. User clicks on the product page.
3. User clicks the "add to wishlist" button,
4. Product is added to the user's wishlist.

Extensions (or Alternative Flows):

- 4a. The product is already in the user's wishlist.
 1. The site tells the user that the item is already in their wishlist.





- | | |
|--------------------------|--|
| Operation: | searchItem |
| Cross References: | Add Item To Wishlist |
| Preconditions: | The customer wants to search for an item |
| Postconditions: | The customer searched for their item |
| Operation: | goToPage |
| Cross References: | Add Item To WishList |
| Preconditions: | The item page exists |
| Postconditions: | The customer has the item page on their screen |
| Operation: | addToWishList |
| Cross References: | Add Item To Wishlist |
| Preconditions: | The customer has an account |
| Postconditions: | The item is in the customer's wishlist |

Use Case Name: Ship/Send Item

Scope: Store

Level: Subfunction

Primary Actor: Customer

Stakeholders and Interests:

- Company: The company makes profit if the item is successfully delivered and not returned.

- Customer: The customer is the one who ordered the item.

Preconditions: An item is ordered by the customer.

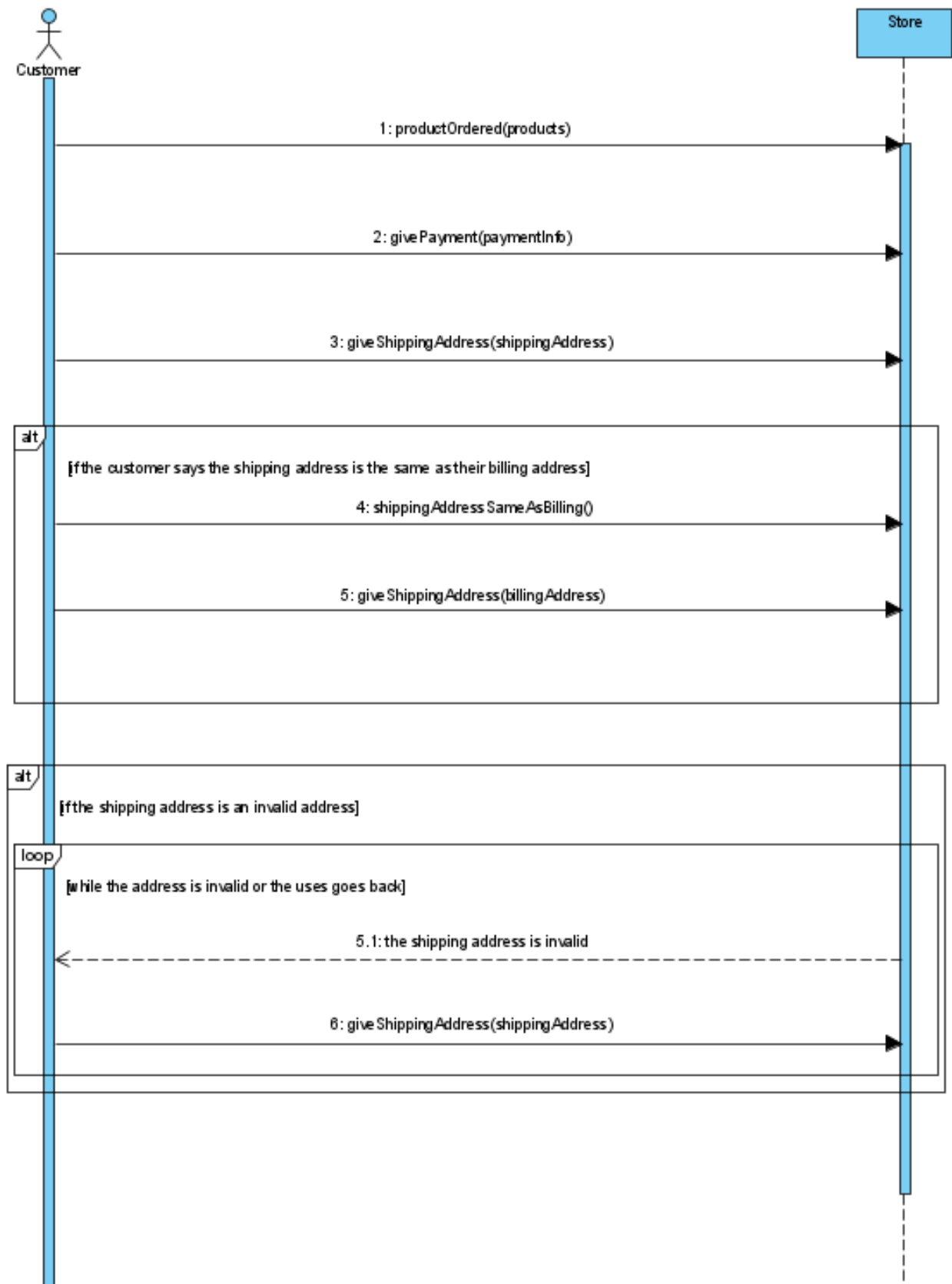
Success Guarantee (or Postconditions): The item is delivered to the customer.

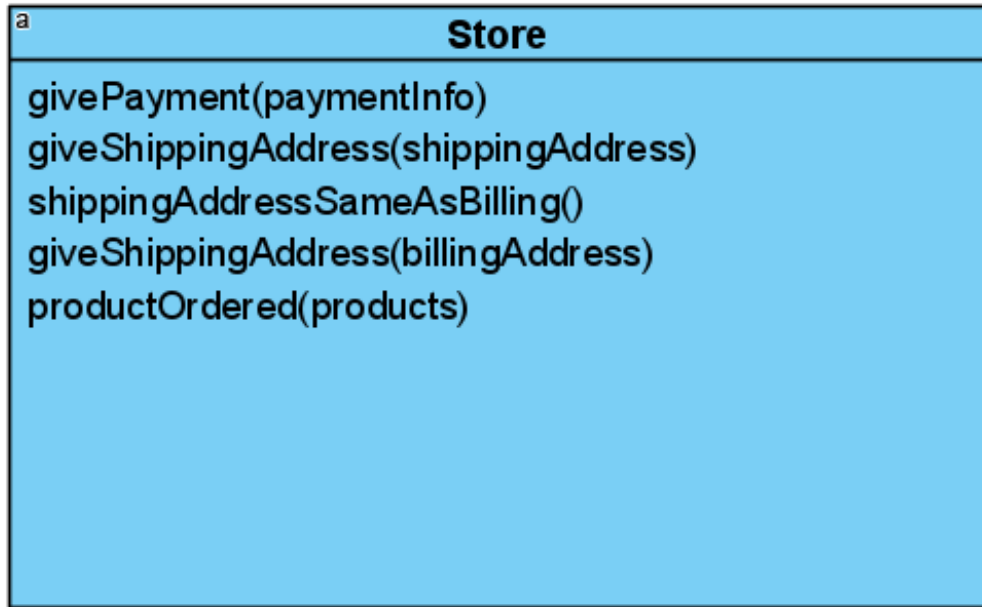
Main Success Scenario (or Basic Flow):

1. The customer orders a product.
2. The customer inputs their shipping address.
3. The item is paid for.
4. The item is sent to the shipper with the correct address.

Extensions (or Alternative Flows):

- 2a. The customer selects that their shipping address is the same as their billing address.
 1. The store will fill in the shipping address with the billing address.
- 2b. The address is not valid.
 1. The site will tell the customer that the address is not valid.
 2. The site will not let them proceed till a valid address is input.





- Operation:** givePayment
Cross References: Ship/Send Item
Preconditions: The customer is buy an item
Postconditions: The store has the customer's payment info
- Operation:** giveShippingAddress
Cross References: Ship/Send Item
Preconditions: The customer bought an item
Postconditions: The store has the customer's shipping address
- Operation:** shippingAddressSameAsBilling
Cross References: Ship/Send Item
Preconditions: The customer is buying an item
Postconditions: The store has the customer's shipping address
- Operation:** productOrdered
Cross References: Ship/Send Item
Preconditions: The customer is buying an item
Postconditions: The item is purchased

Use Case Name: Add New Product

Scope: Store

Level: Subfunction

Primary Actor: Company

Stakeholders and Interests:

- Company: The one adding the product to the store.
- Customer: The one that will buy the product.
- Shipper: The place that ships an item to the customer.

Preconditions: There is a product the company wants to add.

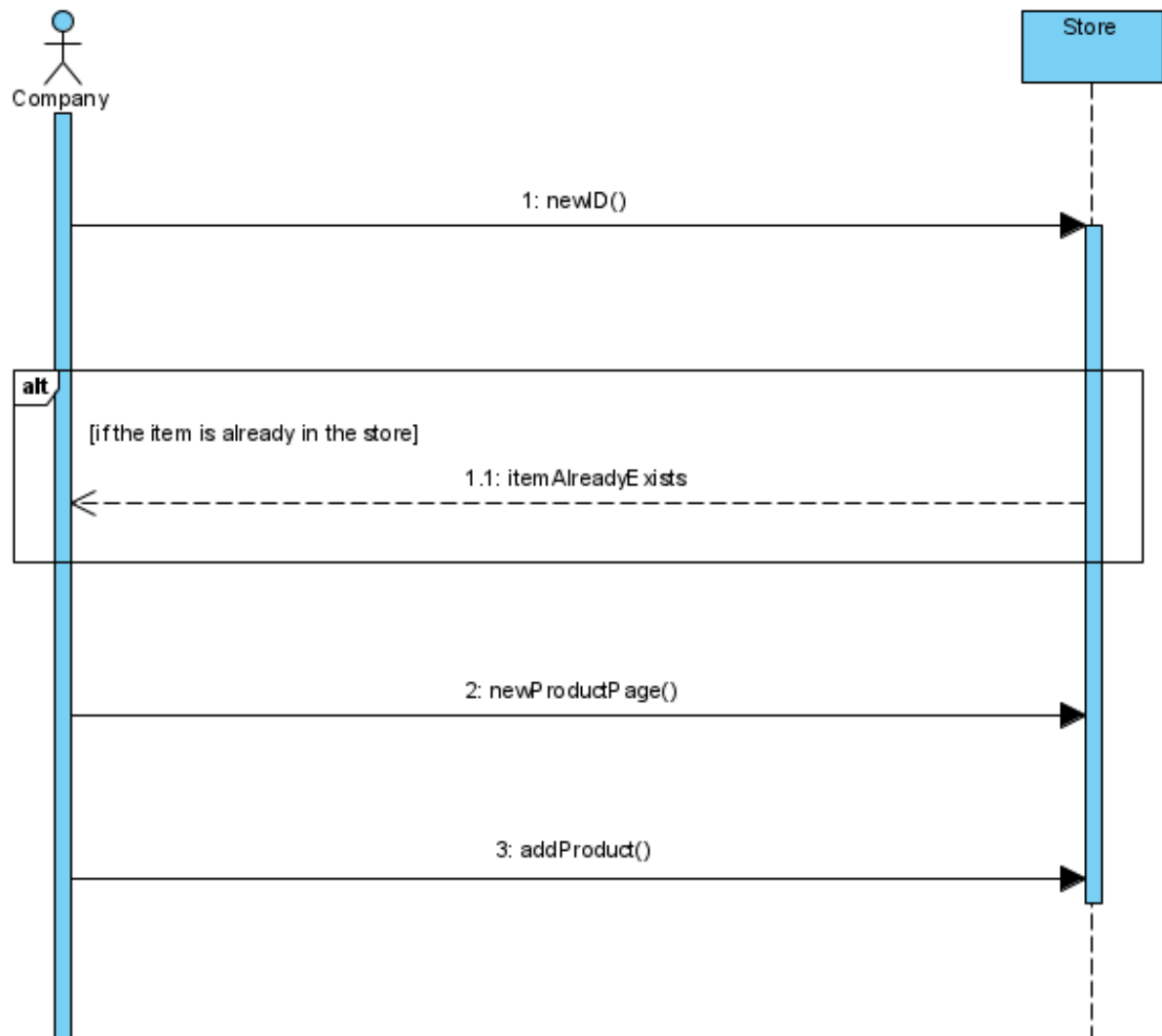
Success Guarantee (or Postconditions): The product is added to the site.

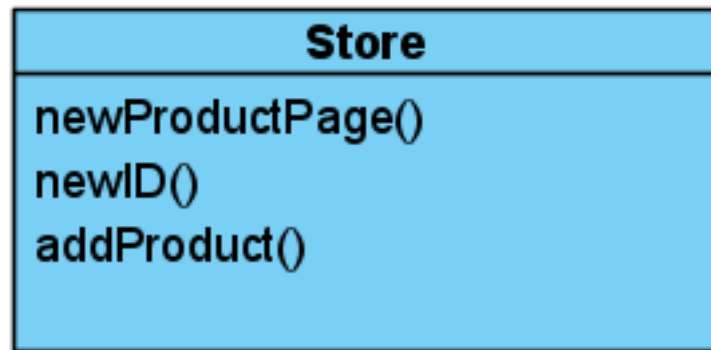
Main Success Scenario (or Basic Flow):

1. A product is chosen to be added to the store.
2. The product is given a unique id.
3. The product is given a product page based off of a template.
4. The product is added to the store.

Extensions (or Alternative Flows):

- 1a. The product is already in the store.
 1. The system will tell the company that the product already exists.





Operation: newProductPage
Cross References: Add New Product
Preconditions: There is a new product to add
Postconditions: A new product page is created

Operation: newID
Cross References: Add New Product
Preconditions: There is a new product
Postconditions: The new product has its own unique ID

Operation: addProduct
Cross References: Add New Product
Preconditions: There is a fully ready new product to add
Postconditions: The new product is added to the store

Use Case Name: Make Purchase

Scope: Store

Level: user goal

Primary Actor: Customer

Stakeholders and Interests:

- Customer: Wants to buy product
- Company: When an item is purchased, revenue goes back to the owner

Preconditions: The item wanted by the customer must be in stock

Success Guarantee (or Postconditions):

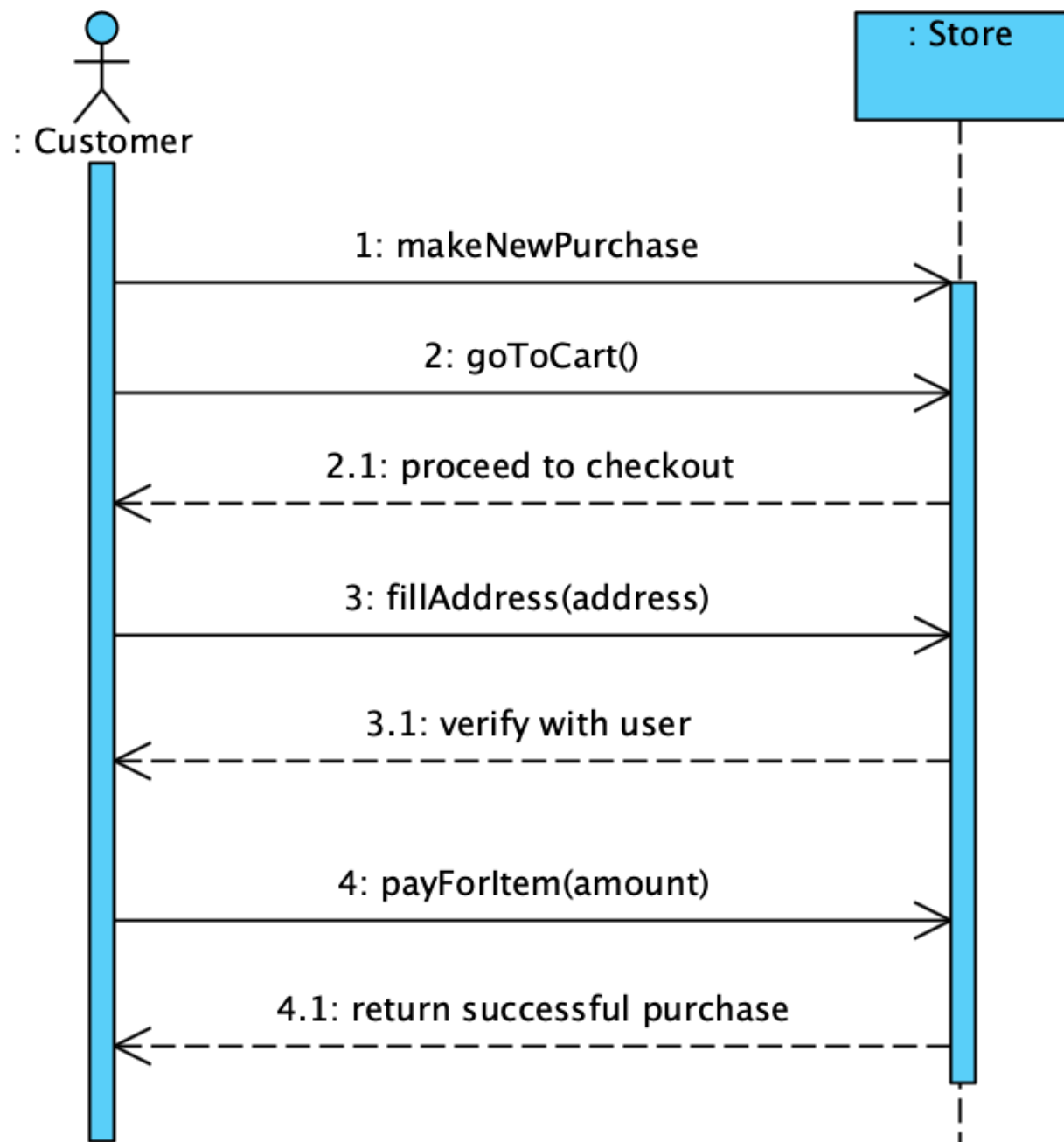
The customer is successfully able to purchase the product they wanted

Main Success Scenario (or Basic Flow):

1. Customer searches for an item from the store
2. Customer picks out that item from the store
3. Item goes into the Customers' cart
4. Customer goes to their cart
5. Customer checks out and item is purchased

Extensions (or Alternative Flows):

- 1a. The item isn't sold from the store
 1. Customer must request item for the future
 2. Customer must find either an off-brand replacement or another store that sells the product
- 2a. The item is out of stock
 1. Customer can request to be notified when the item is back in stock





Operation:	makeNewPurchase
Cross References:	Make New Purchase
Preconditions:	There is an instance of a purchase created
Postconditions:	The item/items are purchased
Operation:	goToCart
Cross References:	Make New Purchase
Preconditions:	The cart exists
Postconditions:	The customer is able to open the cart and see the items inside
Operation:	fillAddress(address)
Cross References:	Make New Purchase
Preconditions:	The customer has an address in which they live at
Postconditions:	The customer has an address on file to ship to in the future and for the current purchase
Operation:	payForItem(amount)
Cross References:	Make New Purchase
Preconditions:	Customer has items to pay for
Postconditions:	The customer pays for their items and the purchase is complete
Use Case Name:	Return Item

Scope: Store

Level: user-goal

Primary Actor: Customer

Stakeholders and Interests:

- Customer: Is able to return their product worry free
- Company: Receives product back from customer

Preconditions: Item has been received by the customer in order to return it

Success Guarantee (or Postconditions): The item is successfully returned to the company

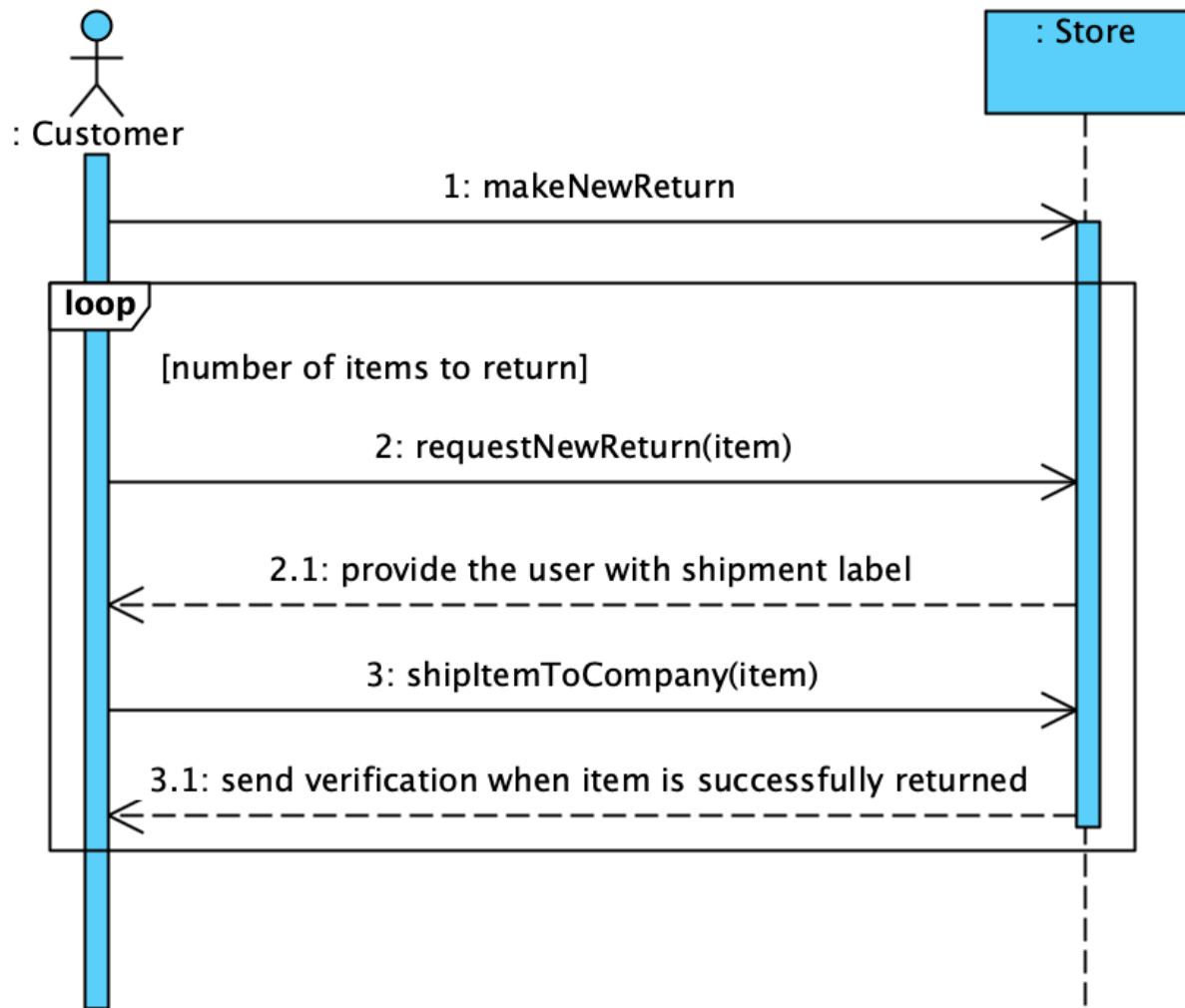
Main Success Scenario (or Basic Flow):

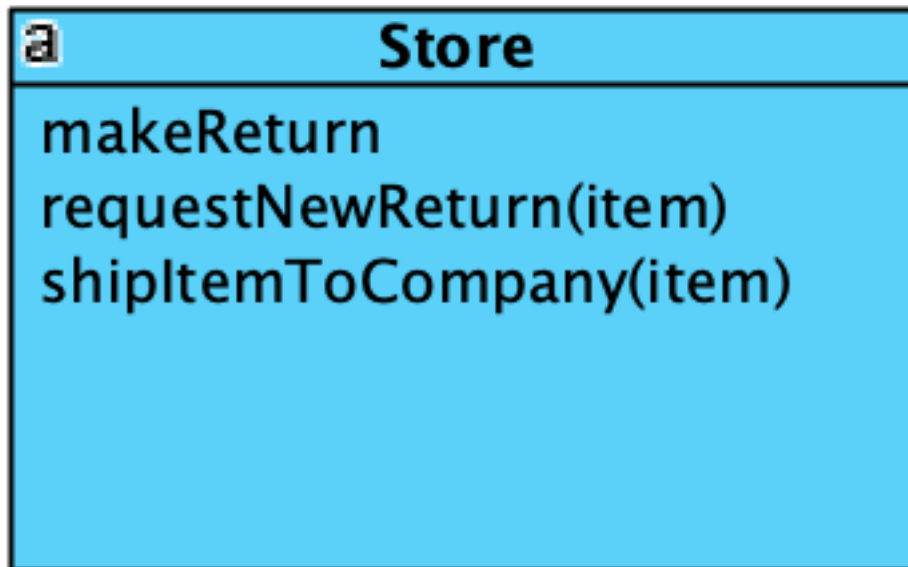
1. The customer wishes to return an order
2. The customer requests a return
3. The customer receives a shipment label to use to return the item
4. The customer uses the shipment label to ship the item through a separate shipping company (FedEx, UPS, USPS)
5. The company receives the item returned

Steps 1-5 can be repeated due to how many items they wish to return

Extensions (or Alternative Flows):

- 2a. The customer is not qualified to return the item
 1. Customer must keep the item, donate the item, or throw it away
- 3a. The shipment label is wrong
 1. Customer must request a new one
- 4a. The shipment label is expired
 1. The customer must keep the item, donate the item, or throw it away
- 5a. The item never returns to the company
 1. The company must cut their losses due to lost package





Operation: makeReturn
Cross References: Make New Return
Preconditions: An item needs to be returned
Postconditions: The item is successfully returned

Operation: requestNewReturn(item)
Cross References: Make New Return
Preconditions: The customer needs to return an item
Postconditions: The company approves the return request

Operation: shipltemToCompany(item)
Cross References: Make New Return
Preconditions: The customer has a ready shipment label to return the item
Postconditions: The company receives the returned item
Use Case Name: Generate Report

Scope: Store

Level: user goal

Primary Actor: Company

Stakeholders and Interests:

- Company: Wants to visualize their product sales and customer satisfaction/customer usage rate

Preconditions: The website is up and running

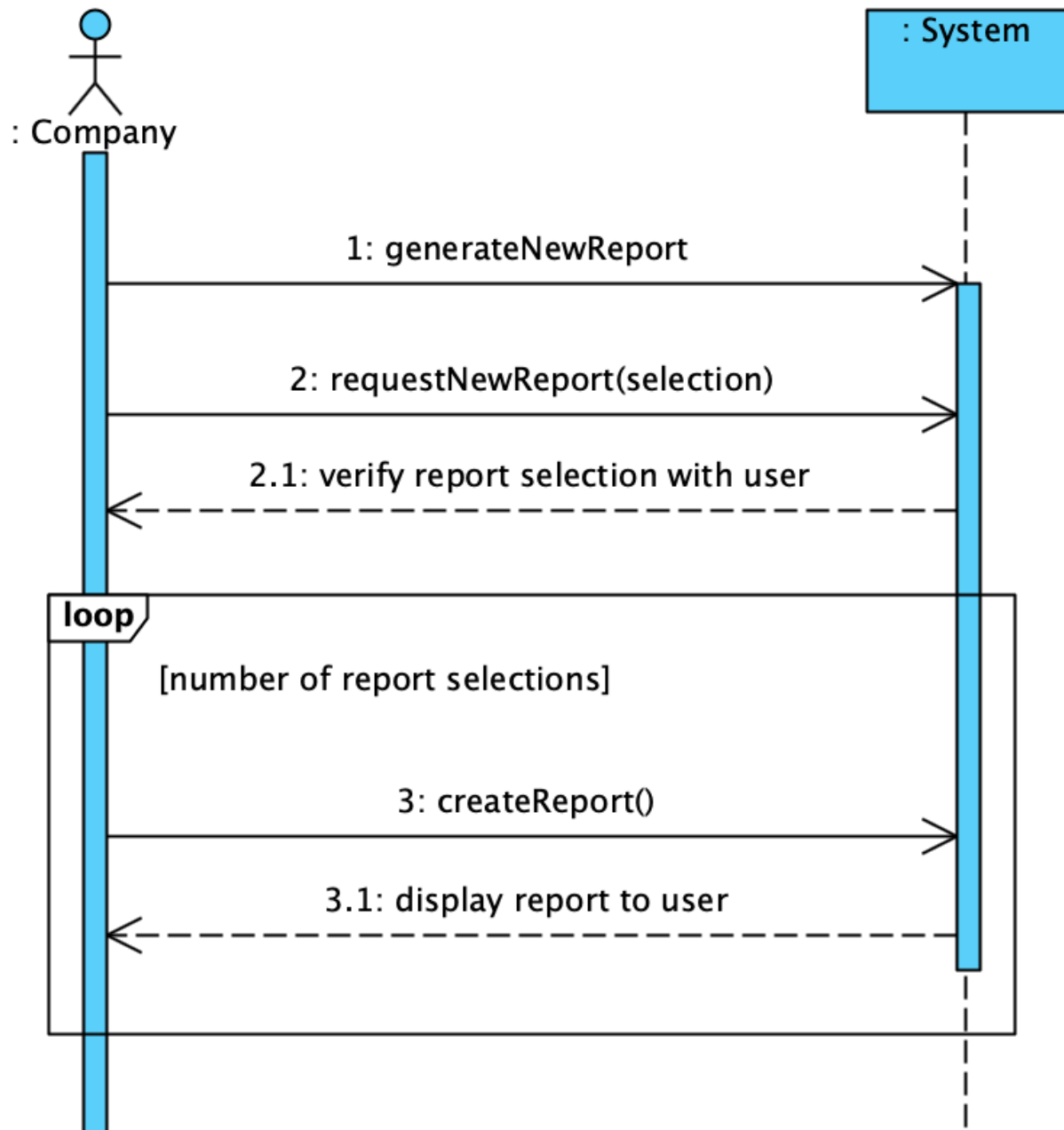
Success Guarantee (or Postconditions): The website produces a report that displays the company's weekly sales, new customer accounts, and ratings

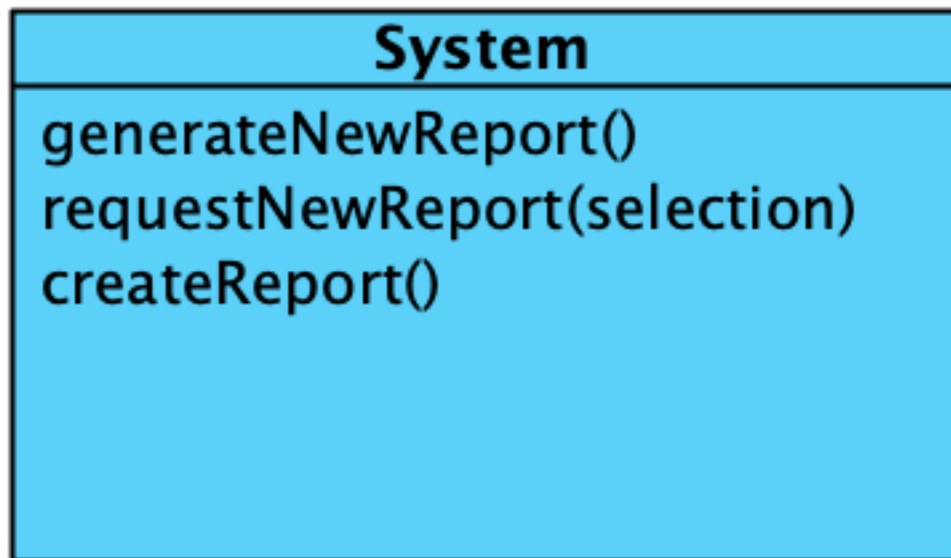
Main Success Scenario (or Basic Flow):

1. The company requests report
 - a. The company selects certain aspects to receive a report of
2. The system confirms the selection
3. The report is generated through the system
4. The report is sent to the company

Extensions (or Alternative Flows):

- The system does not respond
 - The system must be restarted manually in order to generate report





Operation: generateNewReport()

Cross References: Generate Report

Preconditions: The report does not exist

Postconditions: The report is created

Operation: requestNewReport(selection)

Cross References: Generate Report

Preconditions: The report selection hasn't been made

Postconditions: The report selection is chosen and verified by the system with the user

Operation: createReport()

Cross References: Generate Report

Preconditions: The report has yet to be made

Postconditions: The report is created and sent to the company