

Patagonia Use Cases

Use Case Name:	Checkout Process	ID:	UC-1	Priority	High
Actor:	Customer				
Description:	The customer completes the checkout process by selecting payment methods and confirming the order				
Trigger:	Customer proceeds to checkout				
Type:	External				
Preconditions:	- The customer has items in the cart - The selected items are in stock				
Major Steps			Information for Steps		
1. Customer proceeds to checkout			Input: Cart Items		
2. System calculates total cost, taxes, and applicable discounts			Input: Product Price & Discounts Input: Tax Rate		
3. Customer selects payment method (credit card, debit, PayPal, split payment)			Input: Payment Method Details		
4. System processes payment			Output: Payment Confirmation		
5. Order is created and assigned an Order ID			Output: Order Record Created		
6. System updates inventory to reflect sold items			Output: Updated Inventory		
7. Order confirmation email is sent to customer			Output: Order Confirmation Email		
Postconditions:					
- Order is successfully placed and recorded in the system - Inventory is updated to reflect purchased items					
Exceptions:					
- If payment fails, the system prompts the customer to retry or select a different payment method - If an item is out of stock before checkout completion, the system notifies the customer to remove or replace the item					
Summary					
Inputs	Source	Outputs	Destination		
Cart Items	Shopping Cart Database	Order Confirmation	Customer		
Product Price and Discounts	Product Database	Payment Confirmation	Payment System		
Tax Rate	Tax System	Updated Inventory	Inventory Database		

Payment Method	Payment System	Order Record	Order Database
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Use Case Name:	Adding Product to Cart	ID:	UC-2	Priority	Medium
Actor:	Customer				
Description:	Customer adds a product to their shopping cart before proceeding to checkout				
Trigger:	Customer selects a product to add to their cart				
Type:	External				
Preconditions:	The selected product must be available in stock				
Major Steps		Information for Steps			
1. Customer selects a product from the store		Input: Product ID			
2. System checks inventory for availability		Input: Product Stock Data			
3. If available, system adds the product to the customer's cart		Input: Updated Cart			
4. System updates cart based on product price		Output: Updated Cart Total			
5. Customer can proceed to checkout or continue shopping		Output: Cart Updated Notification			
Postconditions:					
- The selected product is successfully added to the cart. - The cart reflects the updated total cost.					
Exceptions:					
- If the product is out of stock, the system notifies the customer and prevents adding it to the cart. - If the customer removes an item, the system updates the cart accordingly.					
Summary					
Inputs	Source	Outputs	Destination		
Product ID	Product Database	Updated Cart	Shopping Cart Database		
Product Stock Data	Inventory Database	Updated Cart Total	Shopping Cart Database		

Use Case Name:	Customer Account Management	ID:	UC-3	Priority	Medium
Actor:	Customer				
Description:	Customer creates or manages their Patagonia account to track orders, save payments and manage preferences				
Trigger:	Customer registers or logs into their account				
Type:	External				
Preconditions:	- Customer must provide valid registration information for account creation - Returning customers must enter valid login credentials				
Major Steps			Information for Steps		
1. Customer navigates to the login/registration page			Input: Customer Request		
2. Customer logs in/registers			Input: Username, Password		
(a) If returning, customer enters login credentials			Input: Registration Form Data		
(b) If new, customer enters personal details					
3. System verifies credentials or creates new account			Output: Login Success / Account Created Notification		
4. Customer accesses their account dashboard			Output: Account Overview Page		
5. Customer can update account details, payment methods, or shipping addresses			Output: Updated Account Details		
6. Customer can view order history			Output: Order History Displayed		
Postconditions:					
- New accounts are registered successfully. - Returning customers gain access to their dashboard.					
Exceptions:					
- If incorrect login credentials are provided, the system displays an error and prompts for retry. - If an account already exists with the given email during registration, the system prevents duplicate accounts.					
Summary					
Inputs	Source	Outputs	Destination		
Customer Request	Customer Database	Login Success	Authentication System		
Username, Password	Authentication System	Account Created Notification	Authentication System		
Registration Form Data	Authentication System	Account Overview	Customer Database		

Login Credentials	Authentication System	Updated Account Details	Customer Database
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Use Case Name:	Shipping an Order	ID:	UC-4	Priority	High
Actor:	Warehouse Employee				
Description:	Employee packs and ships customer orders				
Trigger:	Customer places order				
Type:	External				
Preconditions:	- Customer has placed the order - Products are in stock				
Major Steps		Information for Steps			
1. Order details are transmitted to the warehouse system		Input: Order Details, Customer Information			
2. Warehouse employee picks and packs the products		Input: Product Inventory			
3. Packed order is sent out for delivery		Output: Updated Product Inventory			
4. System sends email with tracking number and confirmation of shipping		Output: Confirmation Email, Tracking Number			
5. Customer receives product					
6. System confirms successful delivery		Output: Confirmed Delivery Notification			
Postconditions: Customer decides to keep or return products from the order					
Exceptions: If customer order is lost during shipping, a new order will be created and sent					
Summary					
Inputs	Source	Outputs	Destination		
Order Details	Order Database	Confirmation Email	Customer		
Customer Details	Customer Database	Tracking Number	Customer		
Product Inventory	Inventory Database	Confirmed Delivery Notification	Customer		

Use Case Name:	Processing Customer Returns	ID:	UC-5	Priority	High
Actor:	System Admin				
Description:	Receiving, and refunding products that a customer wishes to return				
Trigger:	Customer initiates a return request				
Type:	External				
Preconditions:	- Customer must provide valid order number - Item must be eligible for return based on company policy				
Major Steps			Information for Steps		
1. Customer initiates a return request via the website			Input: Return Request		
2. System verifies eligibility based on return policy IF in-eligible, send customer an email declining option to return			Input: Return Eligibility Criteria		
3. System emails customer with instructions for return			Output: Return Instructions Email		
4. Customer ships item back to warehouse					
5. Warehouse receives returned items					
6. Staff inspects returned items IF items are deemed unfit for return, send products back to customer					
7. System processes refund or replacement			Output: Payment Update		
8. Update inventory with returned item IF product is defective, DO NOT update inventory			Output: Inventory Update		
9. System sends the customer an email confirming the refund or replacement			Output: Refund Confirmation		
Postconditions: Status of return updated to “complete”					
Exceptions: If product is in-eligible for return, cancel process					
Summary					
Inputs	Source	Outputs	Destination		
Return Request	Customer	Payment Update	Payment Database		
Return Eligibility Criteria	Return Database	Inventory Update	Inventory Database		
		Refund Confirmation	Customer		

Use Case Name:	Process and Fulfill Repair Request	ID:	UC-6	Priority	High
Actor:	Employee				
Description:	Receiving customer products and repairing them				
Trigger:	Customer initiates a repair request				
Type:	External				
Preconditions:	Product is manufactured by Patagonia				
Major Steps		Information for Steps			
1. Customer fills repair request form and submits it to the website		Input: Repair Request Form			
2. Customer brings/ships the product to the store for repair					
3. Store accepts the repaired item IF the item is un-repairable, the item will be returned to customer or recycled					
4. Store receives payment for repair		Input: Repair Fee			
5. Repair Item Inventory is updated		Input: Repair Item Inventory			
6. Store will order materials to repair item		Output: Material Request			
7. Store will repair item IF item is un-repairable, the item will be returned to customer, repair fee will be refunded, and product will be returned or recycled					
8. Store will notify customer of completed repair, and indicate appointment to pick up IF the customer shipped the item, they would ship the product back and provide a tracking number		Output: Repair Completion Notification Output: Repaired Item Tracking Number			
Postconditions: Customer receives repaired product					
Exceptions: Item is un-repairable					

Summary			
Inputs	Source	Outputs	Destination
Repair Request Form	Database	Material Request	Warehouse
Repair Fee	POS	Repair Completion Notification	Customer
		Repaired Item Tracking Number	Customer