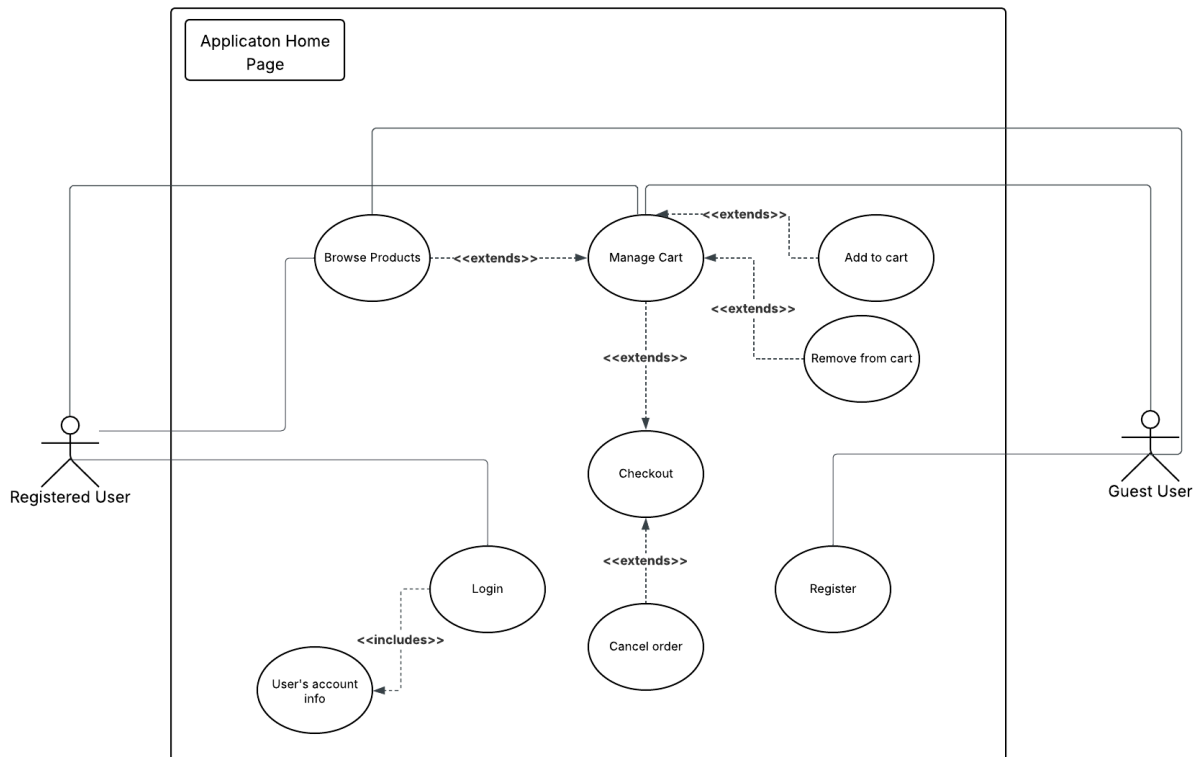


Changes Made to Phase 1

Use-Case Diagram (corrected based on feedback from phase 1):



Use-Case Descriptions (that have been altered):

Use Case ID:	RetailApp.001		
Use Case Name:	Browse Products		
Created By:	Hari Hara Sudhan	Last Updated By:	Ricky Tolefree
Date Created:	April 22, 2025	Date Last Updated:	April 22, 2024
Actor:	Guest User, Registered User		
Description:	User browses available athletic products		
Preconditions:	The application is loaded		
Postconditions:	Products displayed to the user based on categories		
Priority:	Essential		

Frequency of Use:	Frequent
Flow of Events:	<ol style="list-style-type: none"> 1. User lands on the product listing page. 2. System displays products by category.
Alternative Workflow:	<p>User can browse the following optional items: Men's clothing, Women's clothing, Athletic item Then display the items</p> <p>Items that are not found, exception message is sent to the backend, no items message is sent to the product page, and items not available message is sent to the user.</p>
Exceptions:	
Includes:	
Special Requirements:	Products must load in < 2 sec, display timeout error is sent
Assumptions:	
Notes and Issues:	Requires filter options for customers

Use Case ID:	RetailApp.002		
Use Case Name:	Manage Cart		
Created By:	Hari Hara Sudhan	Last Updated By:	Ashutosh Bhalala
Date Created:	April 22, 2025	Date Last Updated:	April 22, 2025
Actor:	User (Registered and Guest)		
Description:	User adds selected products to cart		
Preconditions:	Chosen product is in stock		
Postconditions:	Shopping Cart gets updated		
Priority:	Essential		
Frequency of Use:	Frequent		
Flow of Events:	<ol style="list-style-type: none"> 1. User clicks "Add to Cart". 2. System updates cart. 3. System displays message to user confirming the carts update 		

Alternative Workflow:	Product is already in cart: <ol style="list-style-type: none"> 1. User clicks “Add to Cart”. 2. Cart increments item by 1 that is already in cart. 3. System displays message to user indicating the product in cart has been incremented by 1.
Exceptions:	
Includes:	Confirms the availability of the product
Special Requirements:	
Assumptions:	
Notes and Issues:	

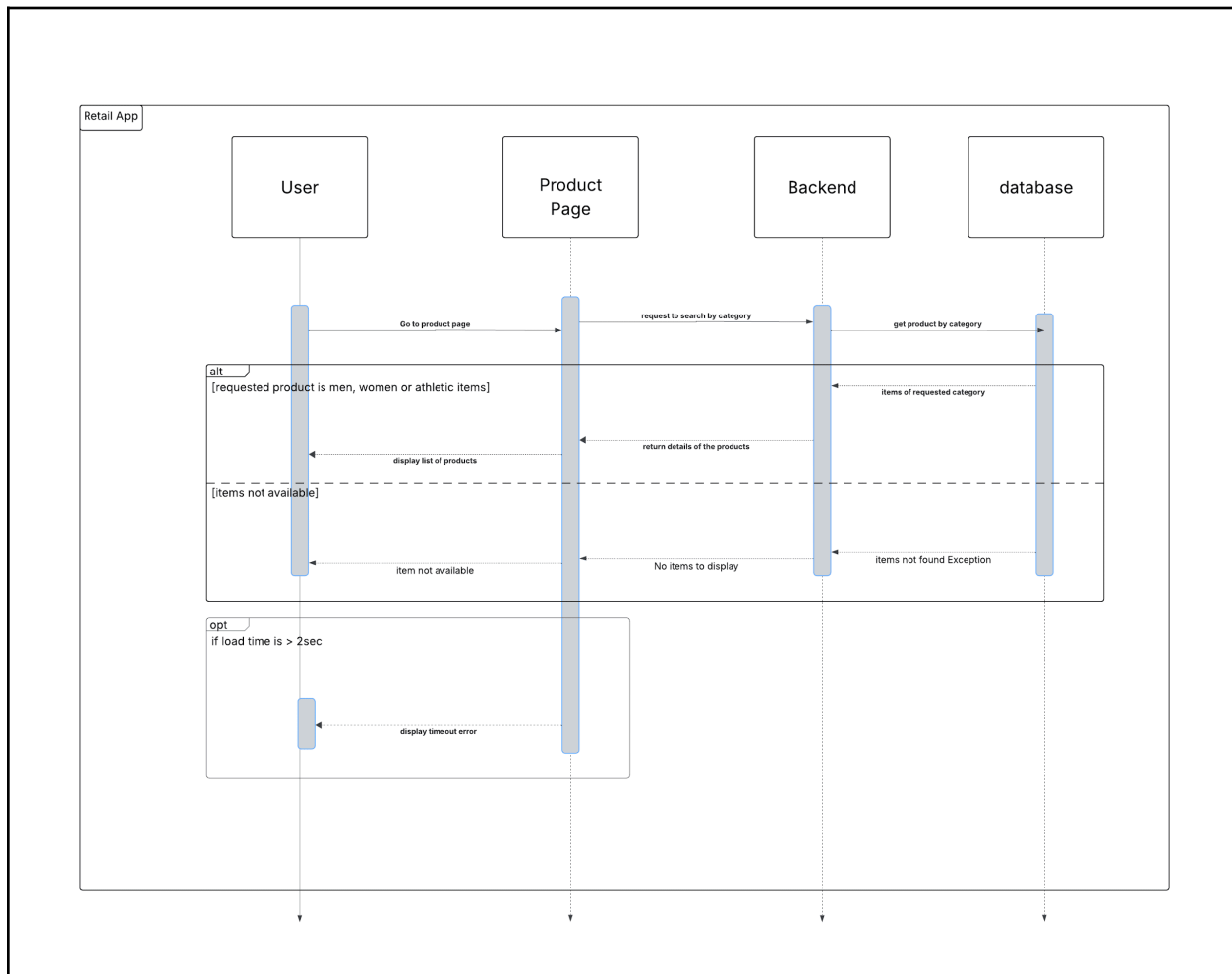
Use Case ID:	RetailApp.004		
Use Case Name:	Checkout		
Created By:	Hari Hara Sudhan	Last Updated By:	Hari Hara Sudhan
Date Created:	April 22, 2025	Date Last Updated:	May 16, 2025
Actor:	Guest User, Registered User		
Description:	User completes the item purchase by entering information and submitting payment.		
Preconditions:	Items are added to the cart		
Postconditions:	Order is placed successfully and user is notified		
Priority:	Essential		
Frequency of Use:	Frequent		
Flow of Events:	<ol style="list-style-type: none"> 1. User goes to the checkout page 2. User enters billing address and payment details 3. System confirms the availability of chosen items 4. Payment processing is completed by the system 5. Order details are stored and display a confirmation message to the user. 		
Alternative Workflow:	<ol style="list-style-type: none"> 1. In case of payment failure, user is prompted to retry the payment 2. If chosen products are not in stock, the user is notified of the status and checkout process is stopped. 		

Exceptions:	Payment method not supported; Entered billing address is not valid.
Includes:	
Special Requirements:	Confirmation message should include the necessary order details
Assumptions:	Items are added to the cart
Notes and Issues:	

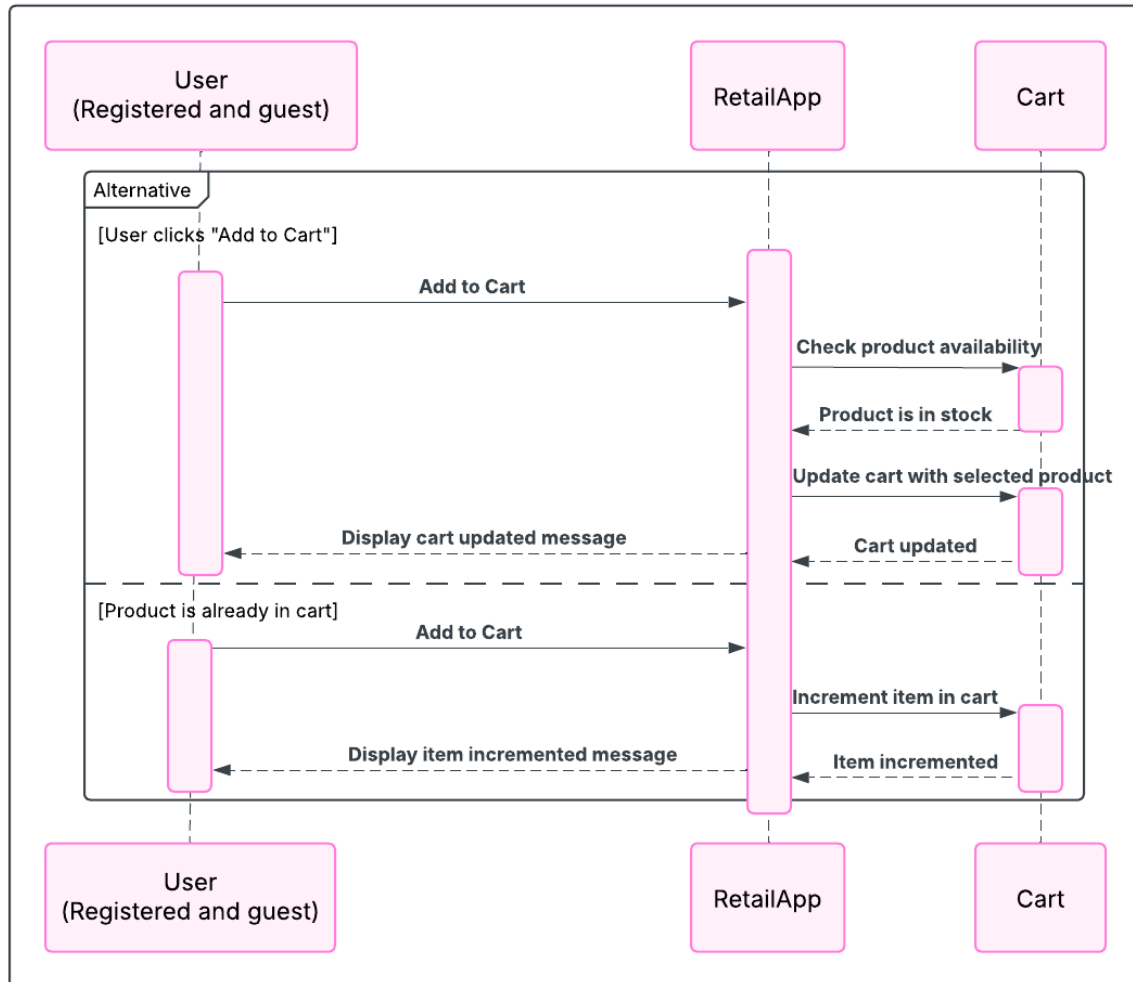
Phase 2

Sequence Diagrams:

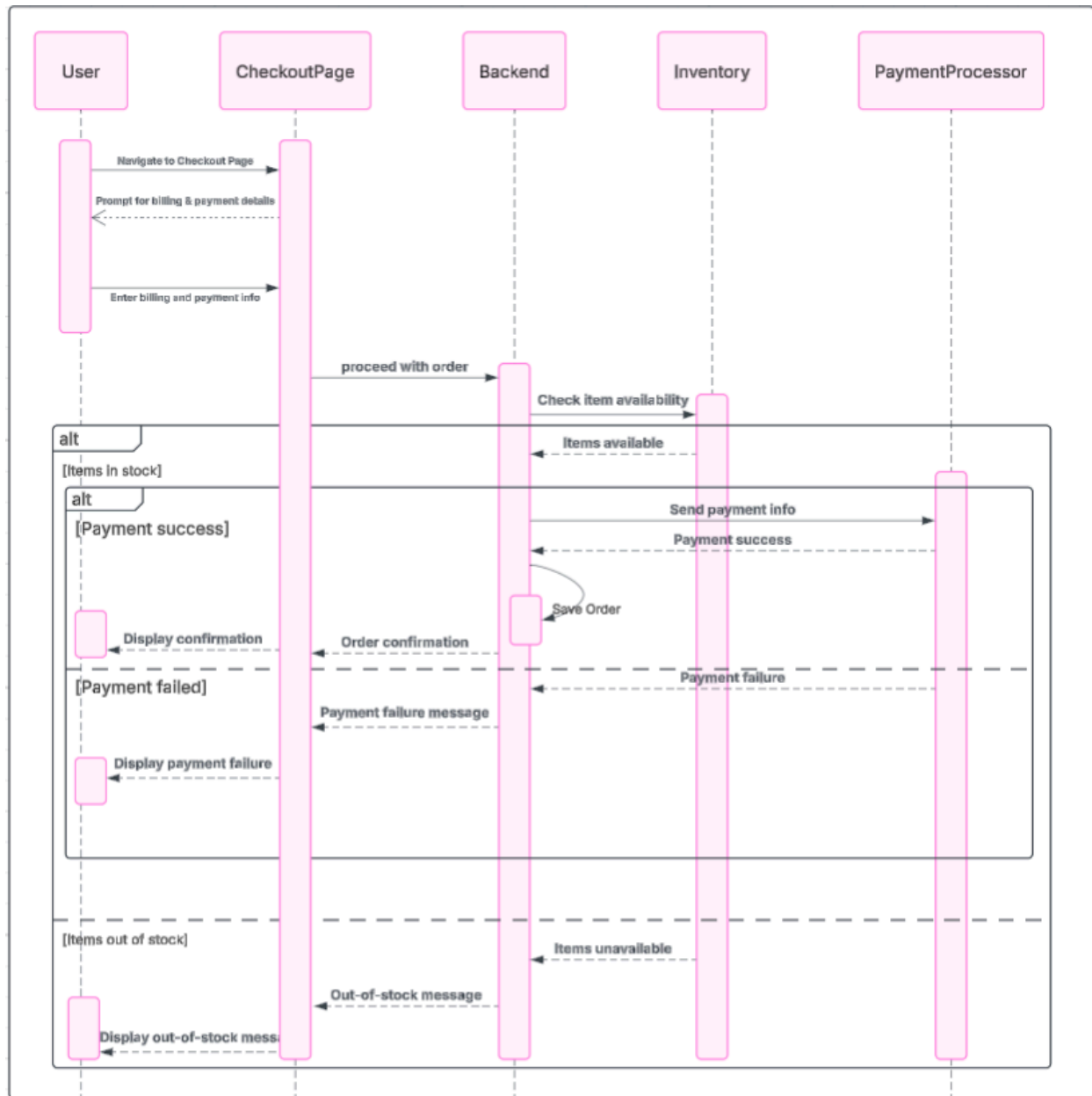
Sequence Diagram for Browse Products:



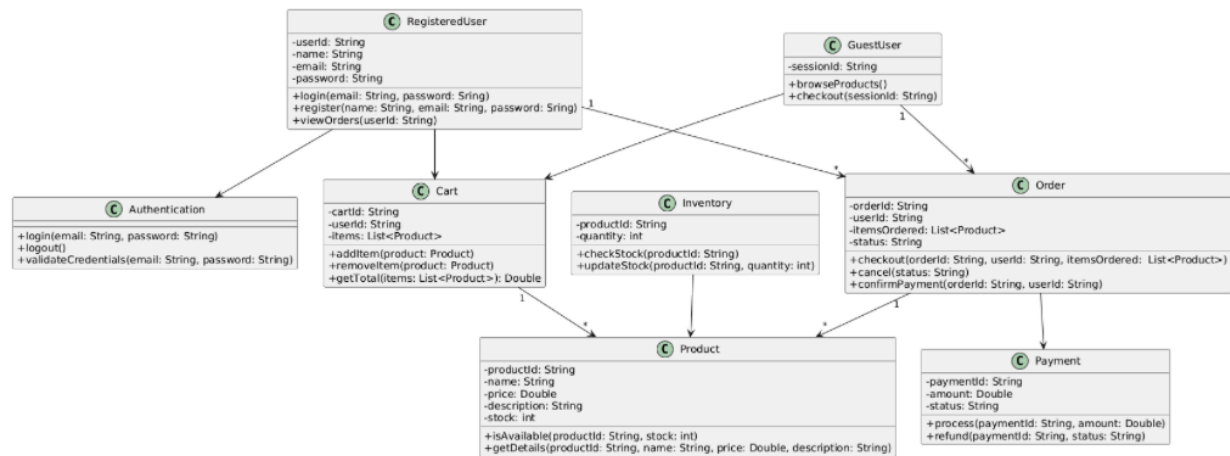
Sequence Diagram for Manage Cart:



Sequence diagram for CheckOut:



Class Diagram:



Github link for skeleton code: <https://github.com/AshutoshBhalala44/AthleticWear>