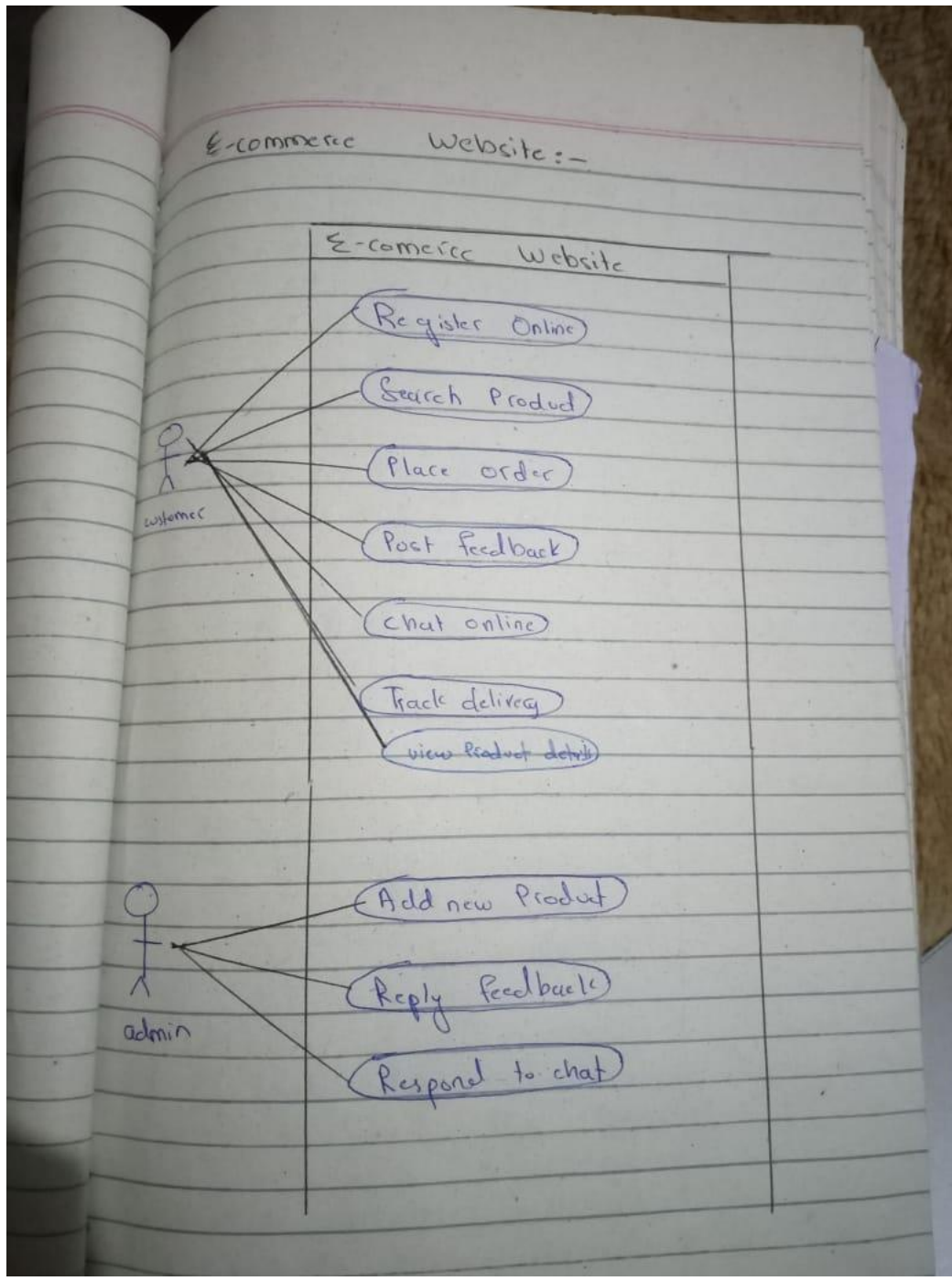


Use case diagram:



Fully dressed use case diagram:

Primary Actor: Customer (User browsing the e-commerce website)

Stakeholders and Interests:

Customer: Wants to view detailed information about a product to make an informed purchasing decision.

Marketing Department: Wants customers to see product details that highlight features and encourage purchases.

Sales Department: Wants a seamless product-viewing experience to convert more users into buyers.

Preconditions:

The user is on the e-commerce website or application.

The product information (name, description, price, image, etc.) is available in the system.

Postconditions:

The system displays the product's details page, including name, description, price, availability, and other relevant information.

If an error occurs, the user is notified, and the system logs the error.

Main Success Scenario (Basic Flow):

User: Selects a product to view (e.g., by clicking on the product name or image from the product listing page).

System: Retrieves detailed information about the selected product from the database.

System: Displays the product's details, including:

Product Name

Product Description

Price

Product Images

Available Colors/Sizes (if applicable)

Customer Reviews (if available)

User: Reviews the product details.

User: Decides to add the product to the cart, save it for later, or go back to the product listing page.

Extensions (Alternative Flows):

4a. If the product is out of stock:

System: Displays an "Out of Stock" message and a button to "Notify me when available" or other related options.

2a. If the system fails to retrieve product details due to a technical issue:

System: Shows an error message like, "Unable to load product details at this time. Please try again later."

System: Logs the error for troubleshooting.

Special Requirements:

Product details should load within 2 seconds for an optimal user experience.

The user should have access to related products or recommended items on the product details page.

The product details page should be mobile-friendly and responsive.

Frequency of Use: Frequently, as most customers review product details before making a purchase.

Assumptions:

The system has access to the database containing product information

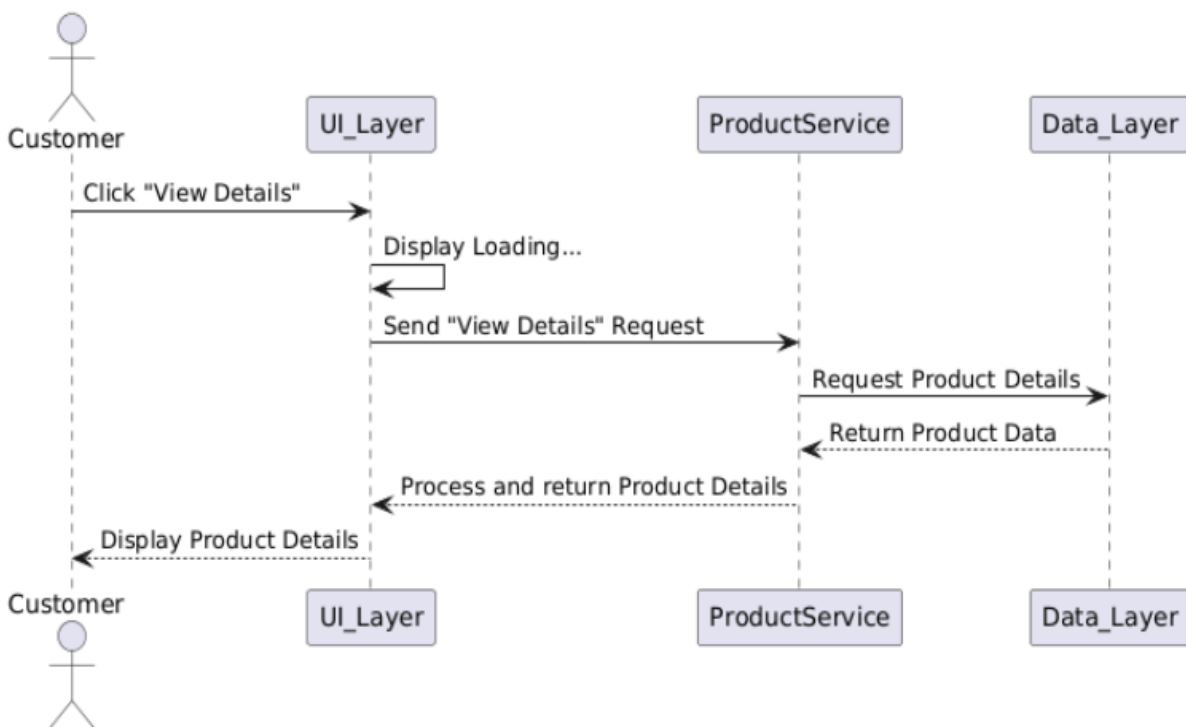
The product information in the database is accurate and up-to-date.

Open Issues:

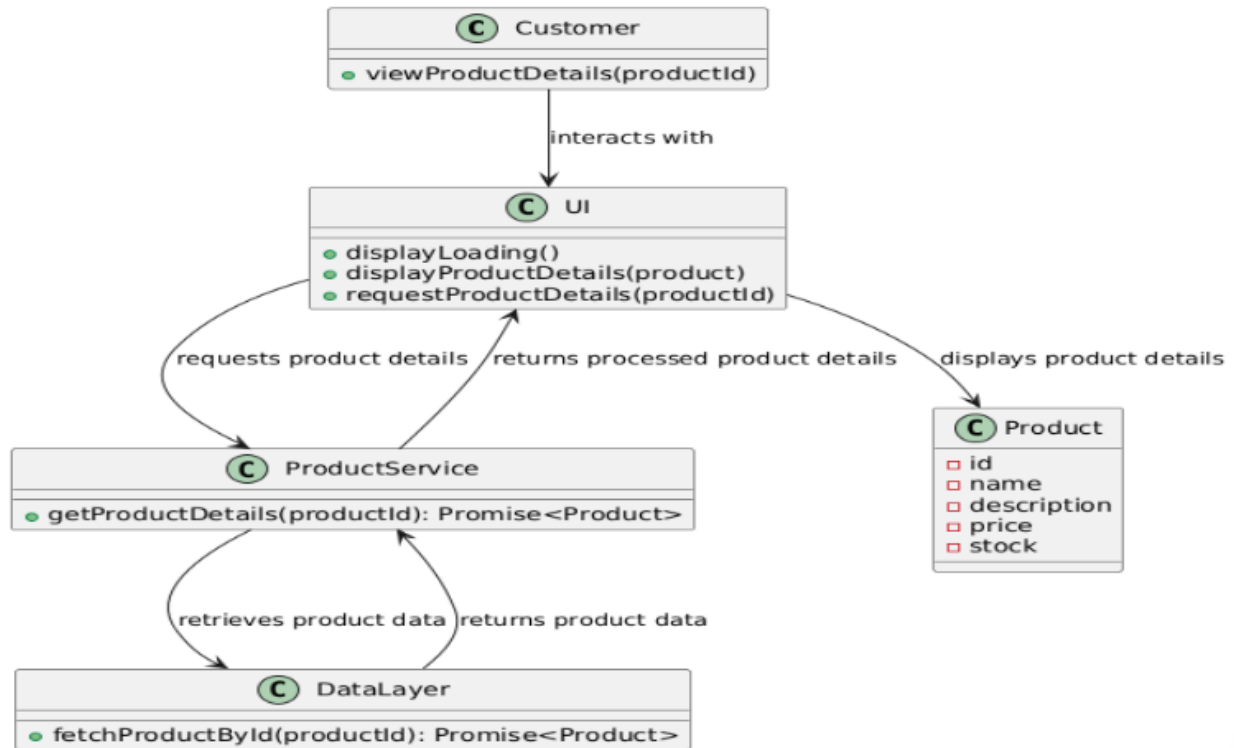
Should customers be able to view reviews without being logged in?

How will the system handle products with dynamic pricing (e.g., flash sales or discounts)?

SYSTEM SEQUENCE DIAGRAM:



CLASS DIAGRAM:



PACKAGE DIAGRAM:

