

## Lab Work 3: Interactive Shopping Cart System

### Objective

To add e-commerce cart functionality including product selection, cart management, and pricing calculations.

### Steps:

#### 1. Add to Cart Feature

Enabled users to add products to a session-based cart from the product page.

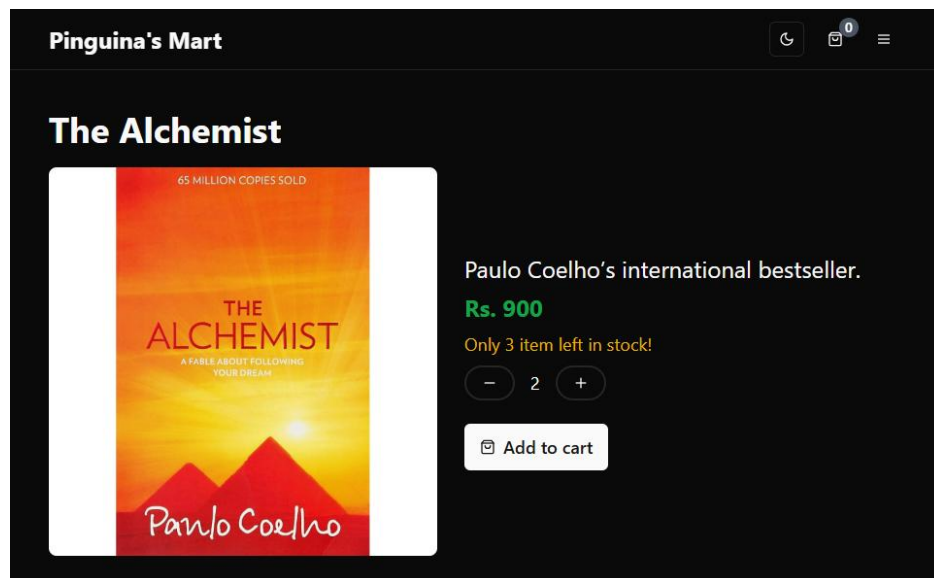


Figure 1: Add to Cart Feature

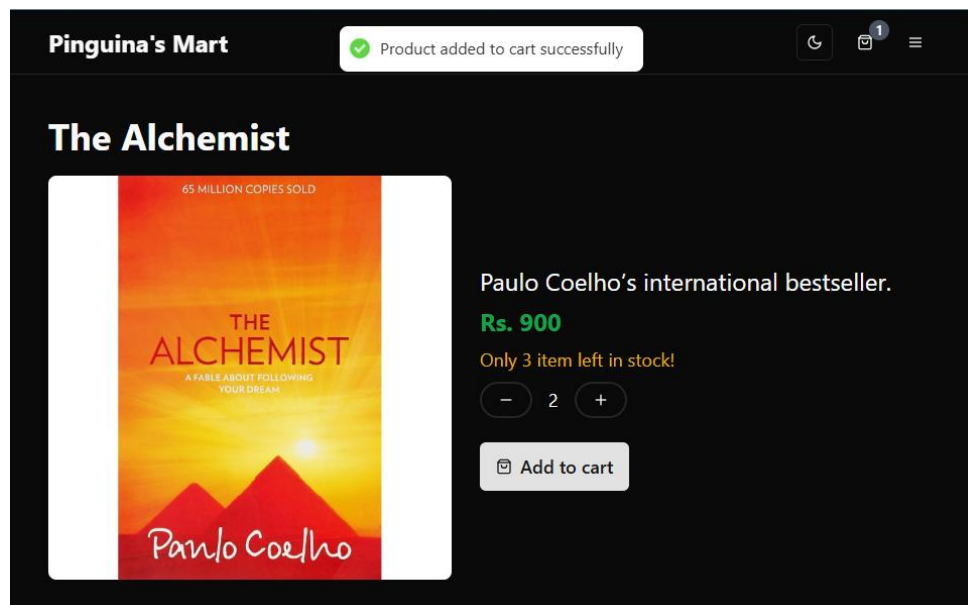


Figure 2: Successful Adding of Product to Cart

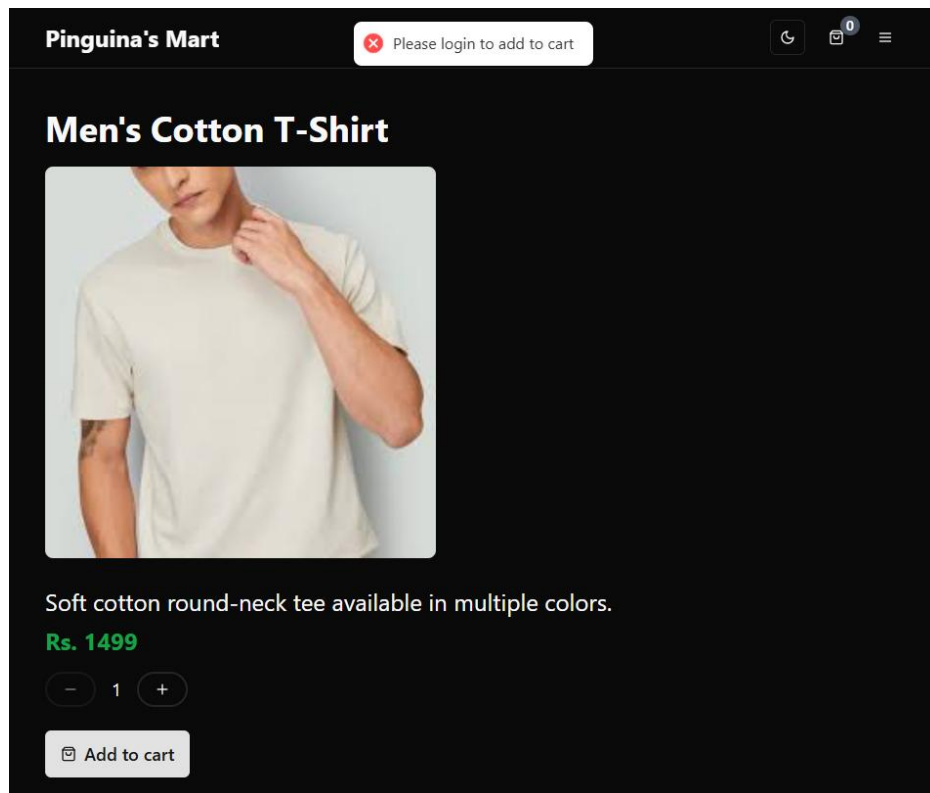


Figure 3: Error while adding to cart without login

## 2. Shopping Cart View

Created a cart display page showing product names, quantities, prices, and subtotals.

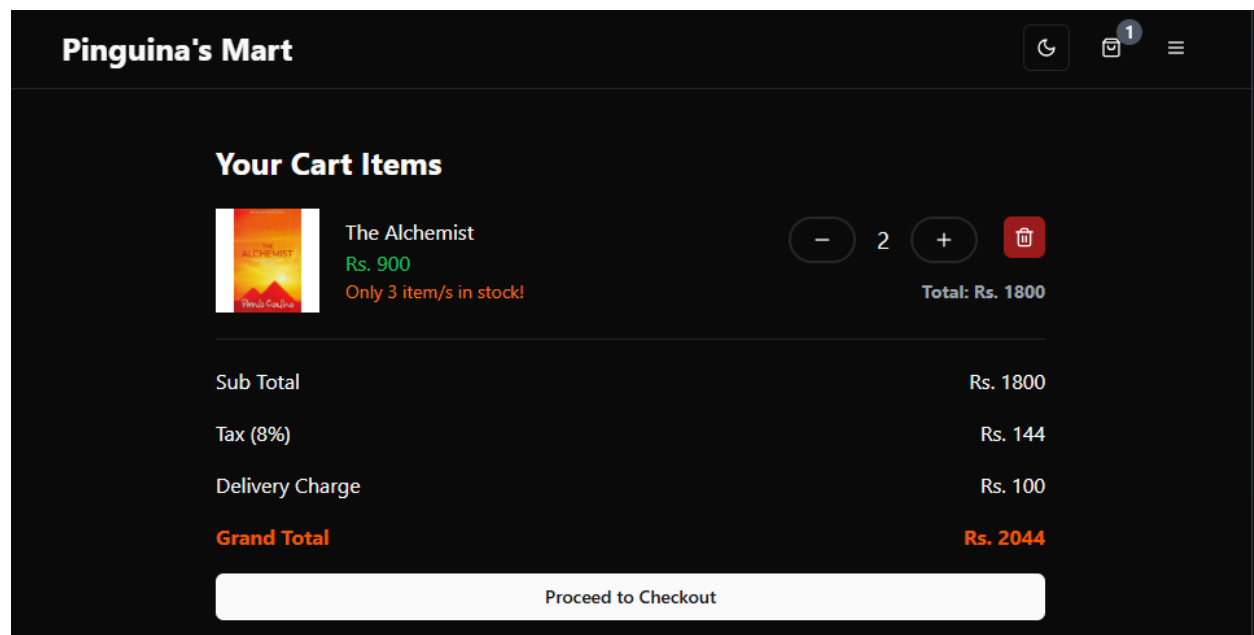


Figure 4: Shopping Cart View with Pricing

### 3. Price Calculations

As in the image above the total price, tax, and grand total are calculated and displayed.

#### 3.1. Sub Total

- This is the sum of prices of all items in the cart.
- For each item: Item Price  $\times$  Quantity
- All these are added together to get the Sub Total.

#### 3.2. Tax (8%)

- After calculating the Sub Total, a tax of 8% is applied.
- Formula: Tax = Sub Total  $\times$  8 / 100

#### 3.3. Delivery Charge

- A fixed delivery charge of Rs. 100 is added to every order.

#### 3.4. Grand Total (Final Amount to Pay)

- The final price (Grand Total) is the sum of:
- Sub Total + Tax + Delivery Charge
- Formula: Grand Total = Sub Total + (Sub Total  $\times$  8 / 100) + 100

### 4. Update & Remove Items

Users can change quantities or remove items from the cart.

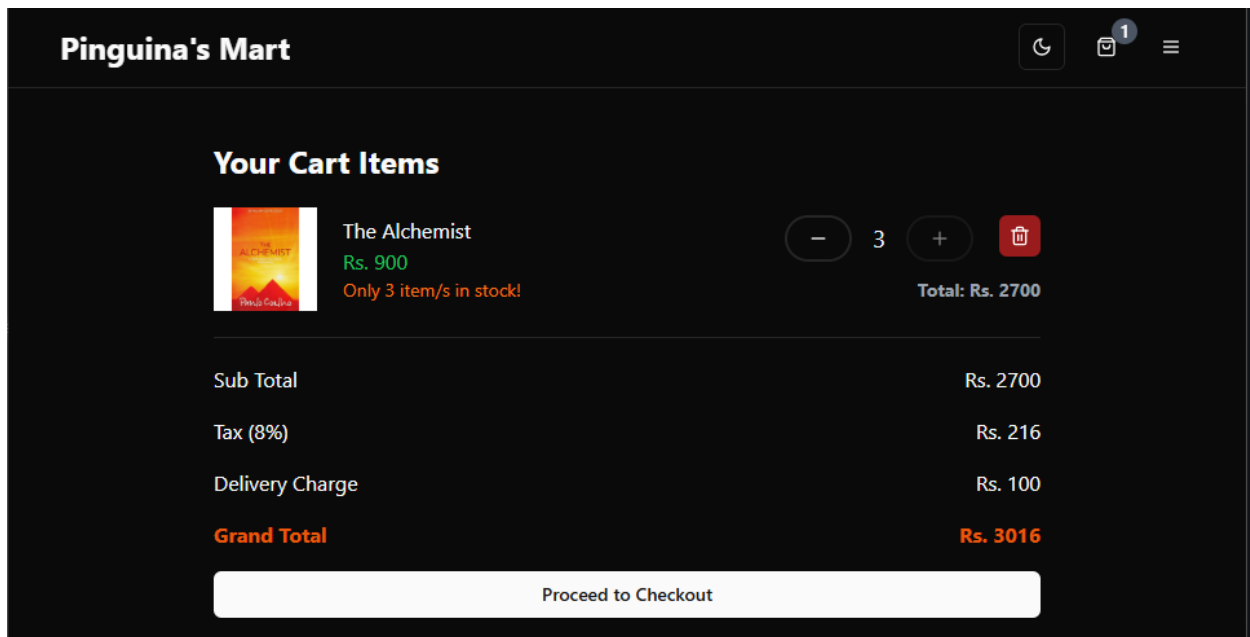
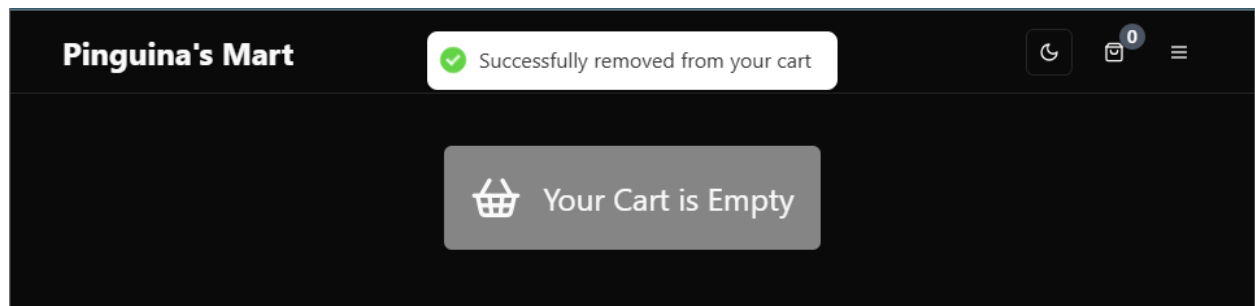


Figure 5: Updating the quantity from 2 to 3



*Figure 6: Removing Item from Cart*

### **Result**

Created a functional shopping cart that dynamically updates pricing and stores selections using sessions.