

# Simple Product Checkout Web Application

## Objective

Design and develop a basic web application that allows users to add products to a shopping cart using Product IDs and perform a simple checkout operation.

## Requirements

### Add Product

- The user should be able to input a Product ID.
- The system will add the product to the cart based on the Product ID entered.
- You can predefine a small product catalog in your code (hard-coded or as a simple JSON list) with Product IDs, names, and prices.

### Shopping Cart

- Display the list of products added to the cart.
- Show Product Name, Quantity, Price per unit, and Total Price for each item.

### Checkout

- Provide a simple Checkout button.
- On checkout, display the total amount to be paid.
- No payment integration needed — just simulate the final amount calculation.

### Optional (Bonus)

- Allow updating the quantity of a product.
- Allow removing products from the cart.
- Database integration

### Technical Guidelines

- You can use any web technology stack of your choice (e.g., HTML/CSS/JavaScript, React, Flask, Node.js, Django, etc.).
- Keep the design simple and focus on functionality.
- No database integration is required; you can maintain data in memory during the session.
- The code should be clean, readable, and modular.

## **Submission**

- Share your source code (e.g., via GitHub link or ZIP file).
- Include a brief README explaining:
  - How to run the application
  - Any assumptions you made
  - The tech stack used