

Decrease Quantity

Remove Item

Increase Quantity

Complete Purchase

Clear Cart

Introduction
This project implements a PHP-based system to manage products and transactions.

Key Features:

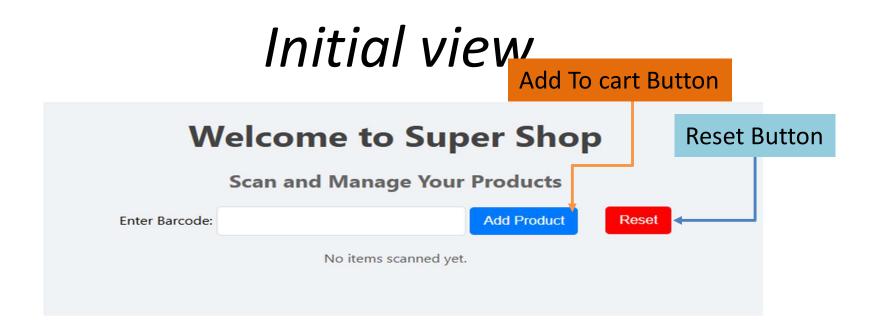
Loading product data from a CSV file.

Dynamic display of items in a table.

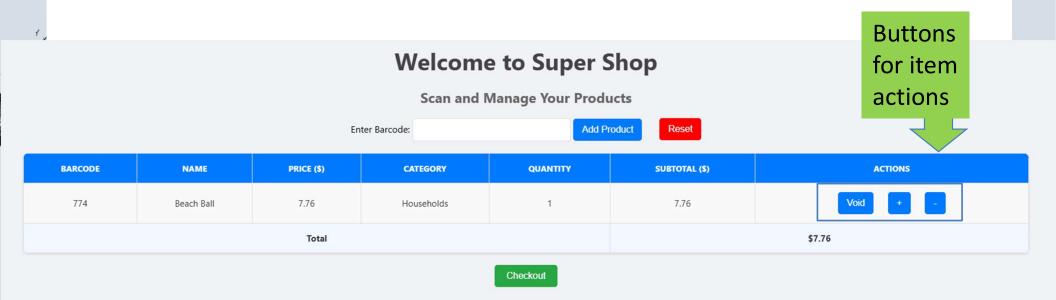
Calculation of total prices for scanned items.

Significance:

Enhances inventory and point-of-sale management using efficient backend logic.



After adding an item into the cart



INVALID Barcode

Product with barcode '1' not found.

Welcome to Super Shop

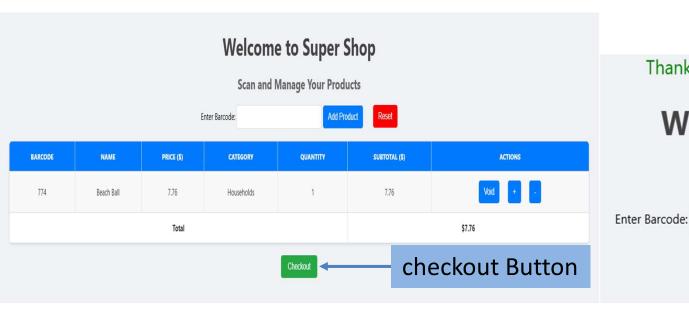
Scan and Manage Your Products

Enter Barcode:	Add Product



Reset

Checkout button & Implication



Thank you for shopping! Your final bill is \$7.76.

Welcome to Super Shop

Scan and Manage Your Products

No items scanned yet.

Method



1. Loading Product Data:

- Function: `loadProductsFromCSV`
- Reads a CSV file and organizes data into an associative array.



2. Displaying Items:

- Function: `displayTable`
- Dynamically generates an HTML table to display product details.



3. Session Management:

- Tracks user session to persist scanned items.



Visual Representation:

- CSV Data → Backend Processing → Frontend Table Display

Results

- Test Case:
 - Input CSV: Products with fields (Barcode, Name, Price, Category).
 - Output: A dynamic table displaying the scanned items with calculated totals.
- Example:
 - 1. Scanned items are shown in a well-structured table.
 - 2. Total price is calculated and displayed in real-time.

Discussion



What Worked:

- Dynamic loading and display of data.
 - Accurate calculation of totals.



What Needs Improvement:

- User interface could be more interactive.
 - Add data validation for robustness.
 - Consider integrating a database for scalability.

Conclusion



This project demonstrates a basic inventory and transaction management system.



Implemented Features:

- CSV-based product loading.
- Dynamic table generation for scanned items.
- Session tracking for user persistence.



Future Work:

- Transition to a database-driven backend.
- Enhance user experience with better UI and validations.