

Project Report: E-Commerce Cart System

1. Introduction

This report provides an analysis of the "E-Commerce Cart System" project, a Python-based console application designed to simulate a simple shopping cart experience.

2. Source Code Analysis

File: E-Cart-System.py

Description: A Python script implementing the E_cart_system class.

Key Features:

- User Initialization: Supports user login or guest access (`__init__`).
- Add Items: Allows users to add products with quantity and price (`add_item`).
- View Cart: Displays current items in the cart formatted in a table (`view_cart`).
- Total Calculation: Computes the total cost of items dynamically (`total_price`).
- Print Receipt: Exports the cart details to a timestamped text file (`cart_print`).
- Error Handling: Robust input handling for menu choices and numeric inputs.

Code Structure:

- Dependencies: `termcolor` for colored console output, `datetime` for timestamping.
- Class `E_cart_system`:
 - Stores items as a list of lists: `[item_name, quantity, price]`.
- Main Execution Block:
 - Provides a menu-driven interface which includes adding items, viewing cart, printing details, and exiting.

3. Output Analysis

File: `cart_details_20260102210929.txt`

Description: A generated receipt file from the system operation.

Content Verification:

The output file follows the format defined in the `cart_print` method.

Date: 2026-01-02 21:09:29

User: Guest User

Items: apple (Qty: 2, Price: 600.0)

Grand Total: 1200.00 IN R

4. Conclusion

The E-Cart-System successfully implements the core functionality of a shopping cart. The code is structured with a class-based approach, and the output verifies that the receipt generation logic works correctly, producing a formatted text file with accurate calculations.