

REVSHOP – Console Based E-Commerce Application

1. Introduction

RevShop is a console-based e-commerce application developed using Core Java and JDBC. It supports Buyer and Seller roles. Buyers can browse products, manage carts, place orders, and submit reviews. Sellers can manage products, inventory, pricing, and view orders related to their products.

2. Technology Stack

- Java
- MySQL Database
- JDBC
- Console-based UI

3. Project Architecture

The application follows a layered architecture consisting of Presentation Layer (UI), Repository Layer, Model Layer, and Database Layer.

4. Package Structure

app – Application entry point
com.config – Database configuration
com.model – Entity classes
com.repository – Database operations
com.ui – Console UI handling
com.service – Buyer services

5. Functional Modules

User Management: Registration and login with role-based access.
Product Management: Add, update, remove, and view products.
Cart Management: Add products to cart and view cart.
Order Management: Place orders and view seller orders.
Review System: Add and view product reviews.
Inventory Alerts: Low stock notifications for sellers.

6. Database Connectivity

DatabaseConfig stores database credentials. ConnectionManager provides a reusable getConnection() method for JDBC connectivity.

7. Conclusion

RevShop demonstrates a complete console-based e-commerce workflow using Java and JDBC. It follows clean architecture principles and can be extended to a web or microservices-based system.