ONLINE SHOPPING CART

Team:

V.Santhosh-CS24B050

S.V.S.Hemanth-CS24b044

Abstract :

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1. Introduction

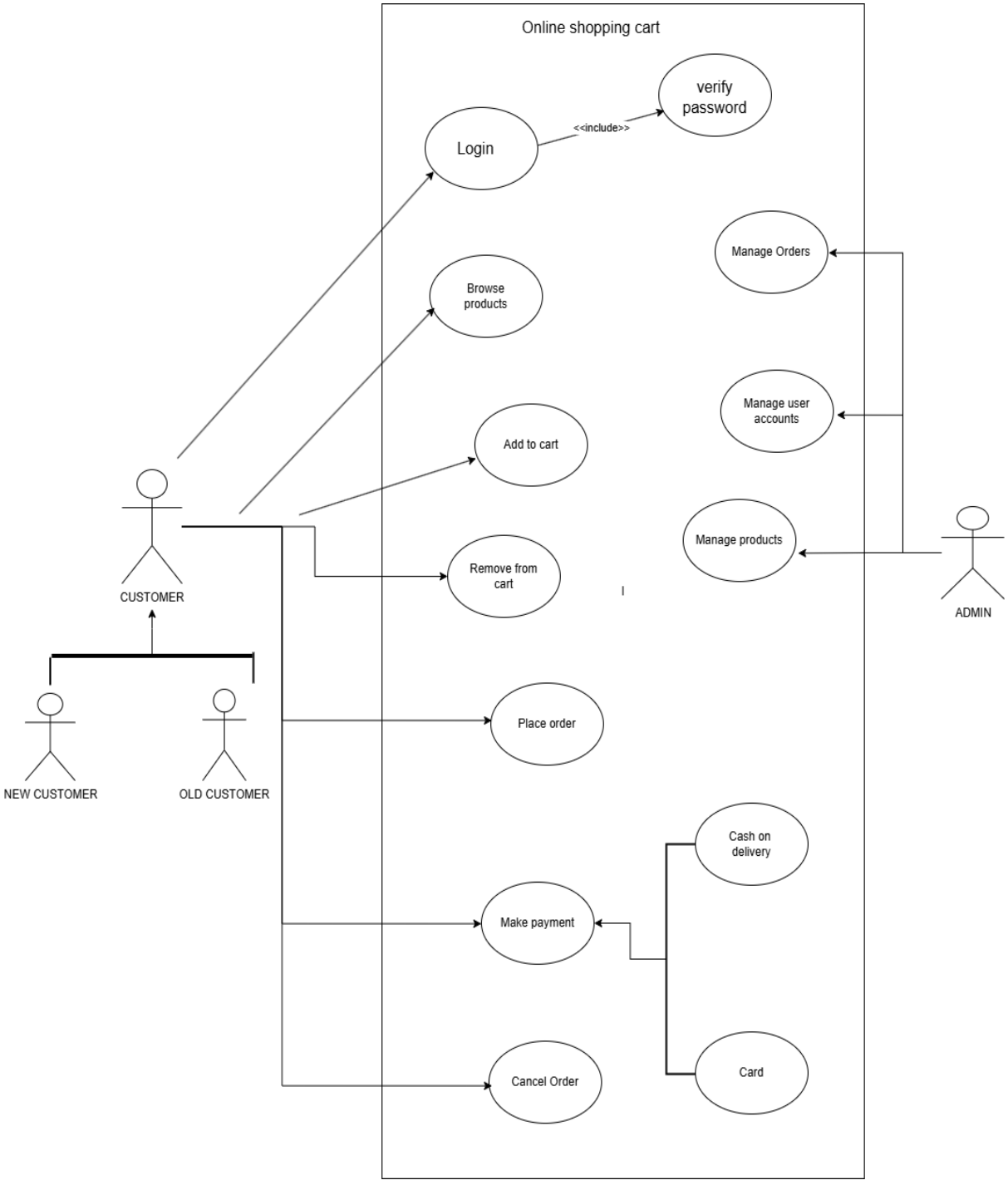
The **Online Shopping Cart** project is a e-commerce application that allows users to browse products, add them to their cart, and proceed with secure payments. The system ensures a user-friendly experience for both customers and administrators by providing efficient product management, order processing, and secure transactions.

2. Project Functionality

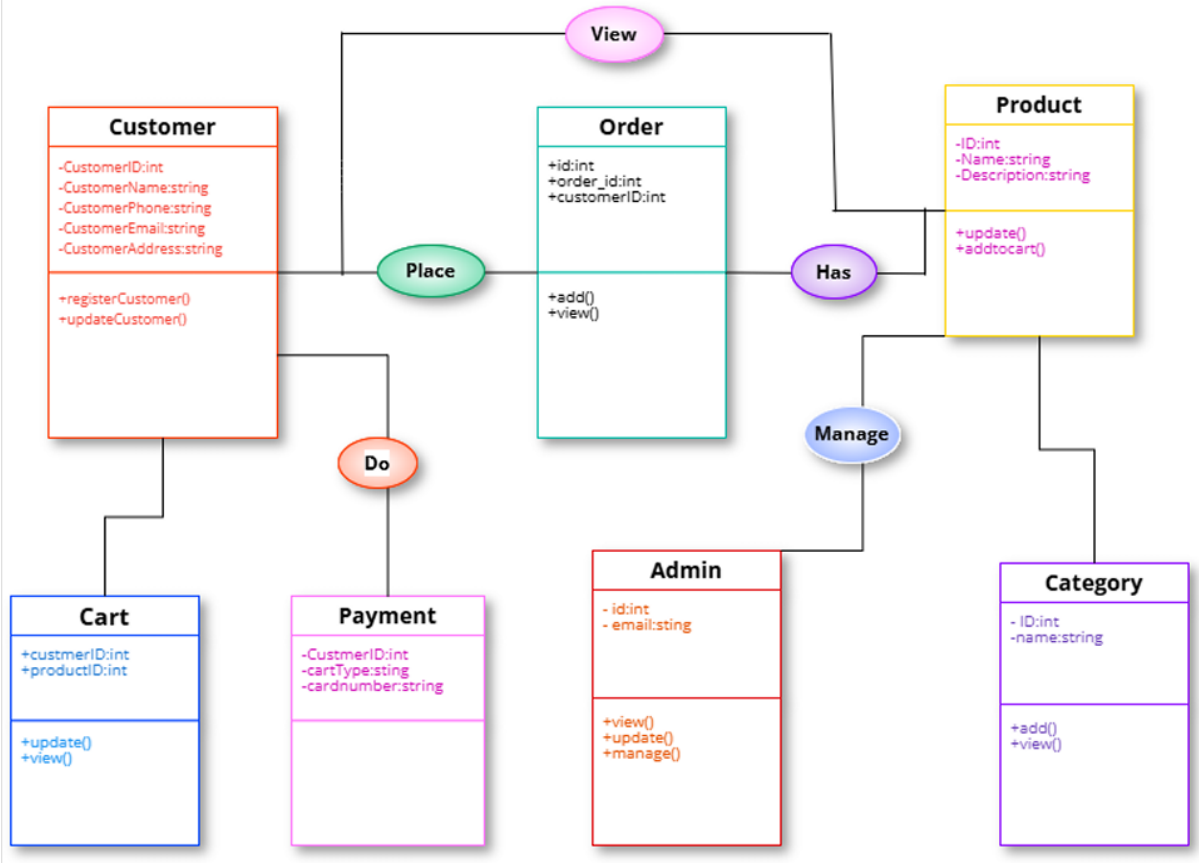
The online shopping cart system provides:

- **User Registration & Authentication**
- **Product Browsing & Filtering**
- **Shopping Cart Management**
- **Order Placement**
- **Secure Payment Processing**
- **Admin Product & User Management**

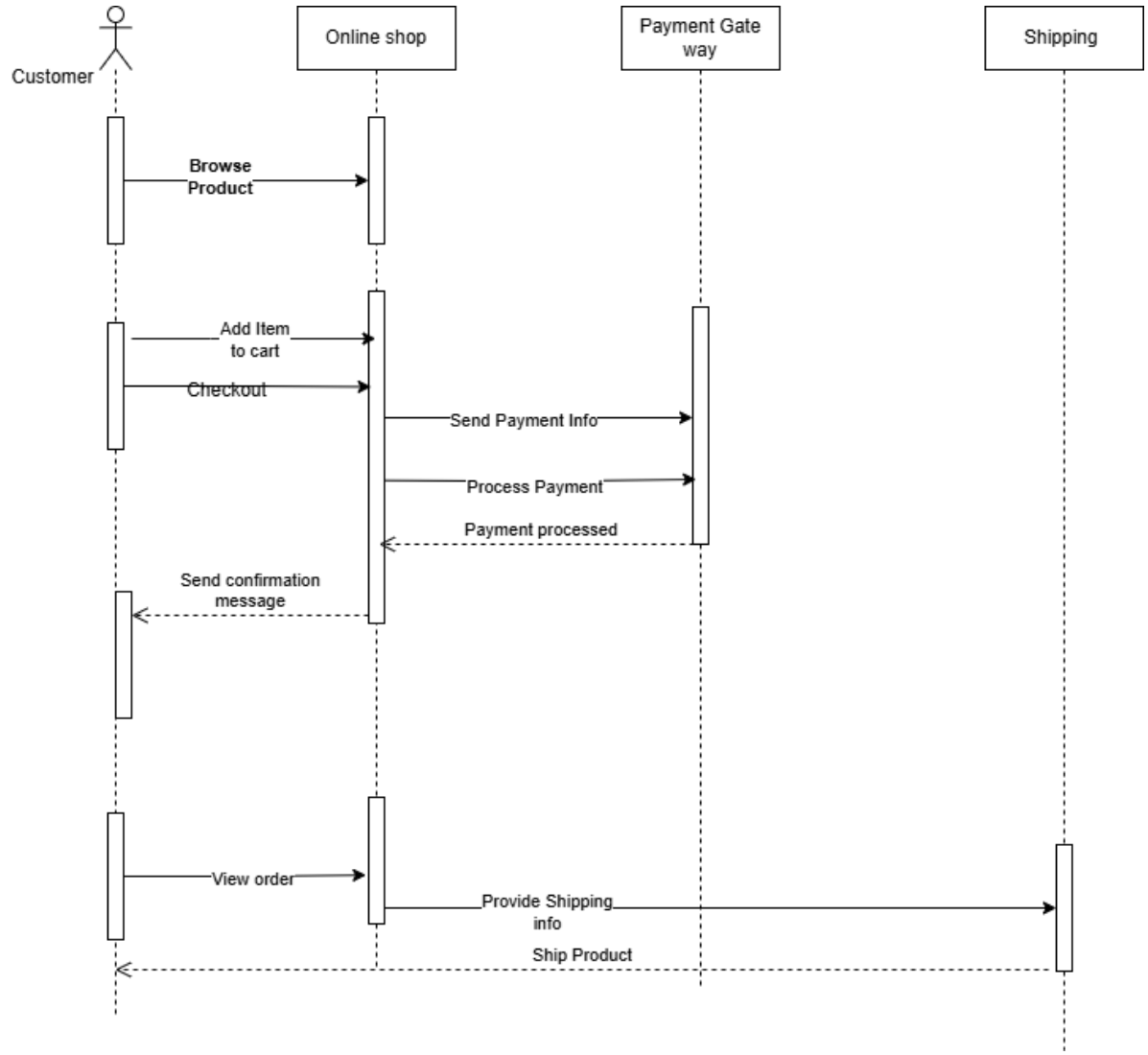
Use case diagram



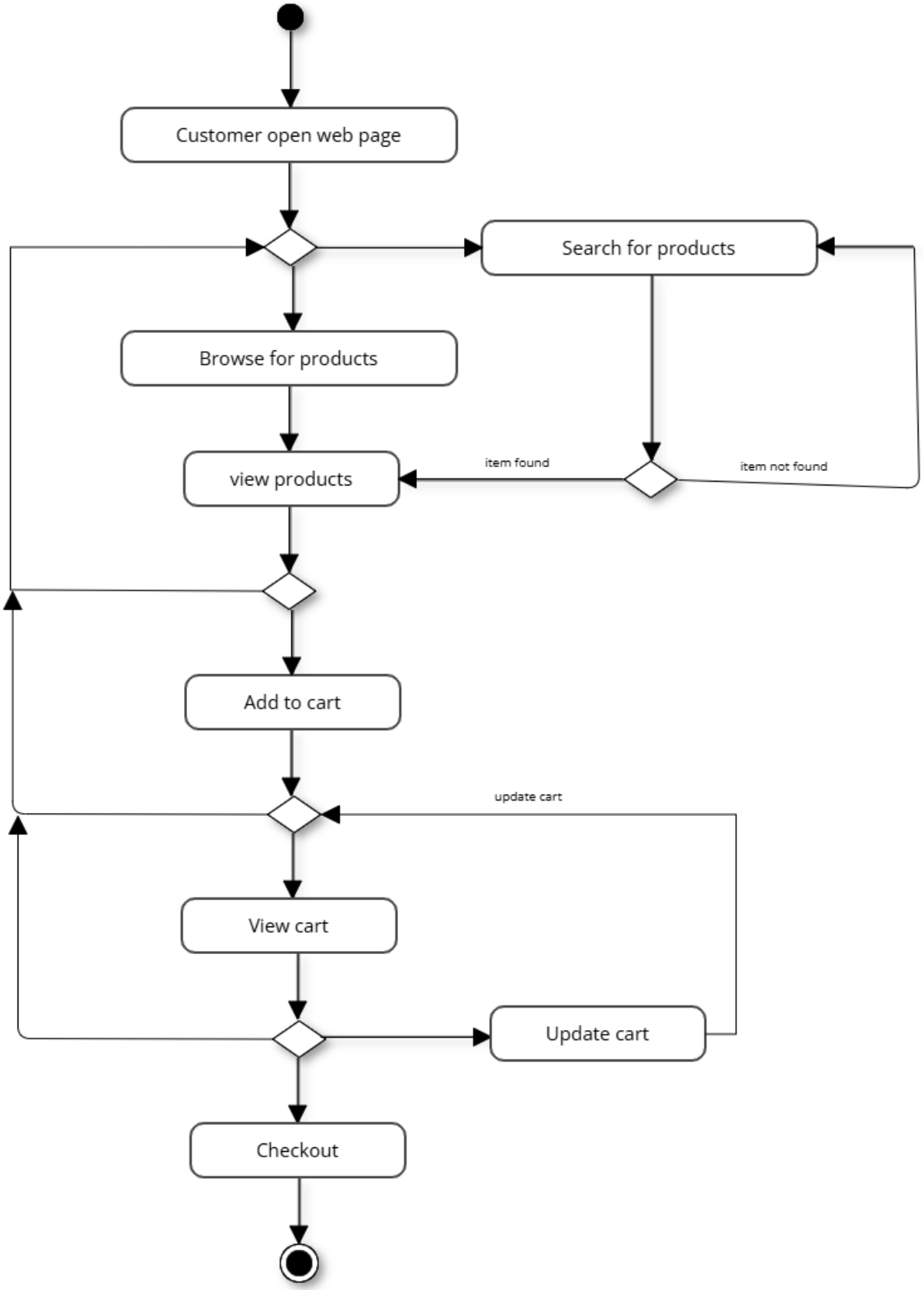
Class Diagram For Online Shopping



Sequence diagram



Activity Diagram for online shopping



3. Features

- **User Authentication**: Secure login and registration for customers and admins.
- **Admin Panel**: Manage products, categories, orders and users.
- **Product Management**: Admins can manage product listings and stock levels.
- **Product Catalog** : view detailed product info and price.
- **Shopping Cart**: Users can add, remove, and update items before checkout.
- **Product Ratings and Reviews**: Customers can rate and review products.
- **Easy and Multiple Payment options**.
- **User-Friendly Interface**: Simple navigation for easy shopping.

4. Usage Manual

1. **Customer Registration/Login**: Users create an account and log in.
2. **Browsing Products**: Customers view products by category.
3. **Adding to Cart**: Users add selected products to their shopping cart.
4. **Placing an Order**: Users proceed to checkout and confirm payment.

5. **Admin Functions**: Admins can manage users, products, and track orders.

5. System Requirements

Hardware Requirements

- Processor: Intel Core i5 or higher
- RAM: 8GB or higher
- Storage: 500GB HDD or SSD

Software Requirements

- Operating System: Windows/Linux/macOS
- Java Development Kit (JDK)
- MySQL Database Server
- Spring Boot Framework

6. Social Impact Factor

The system enhances convenience, supports online business growth, and promotes secure digital transactions. It helps small businesses reach customers beyond geographical limitations, contributing to digitalization and economic growth.

THE END