

Design Document
for
**Ecommerce website using Sentiment
Analysis**

Version 1.0 approved

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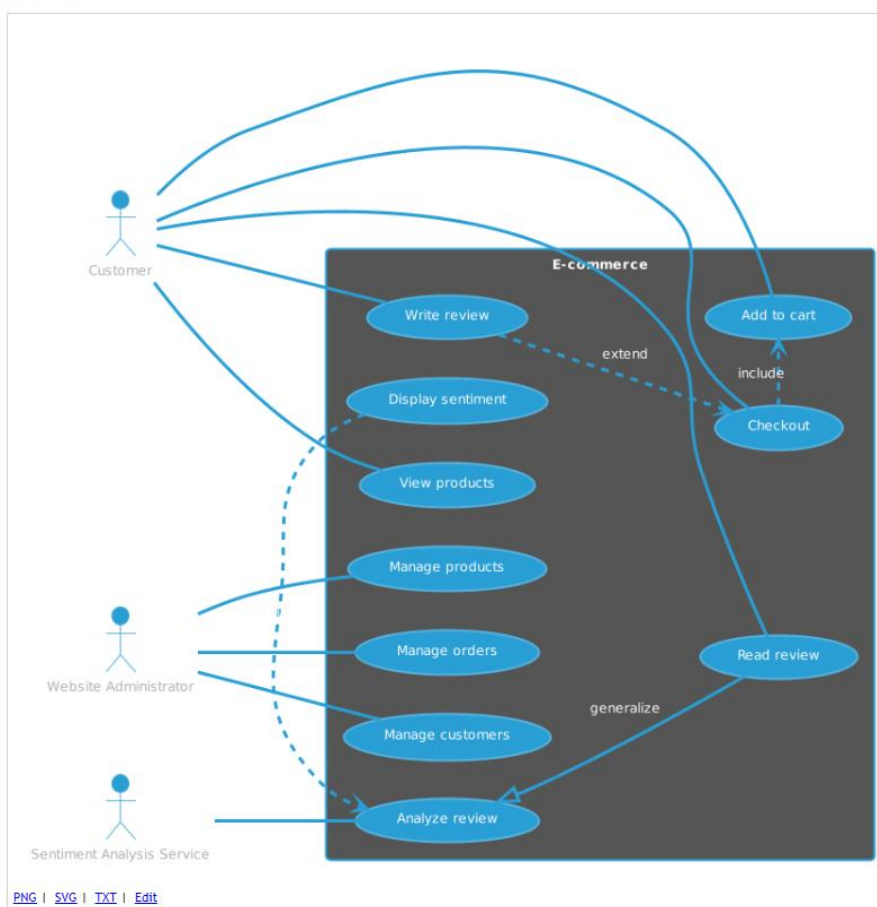
PES2UG21CS299 – Hashim Maniyar

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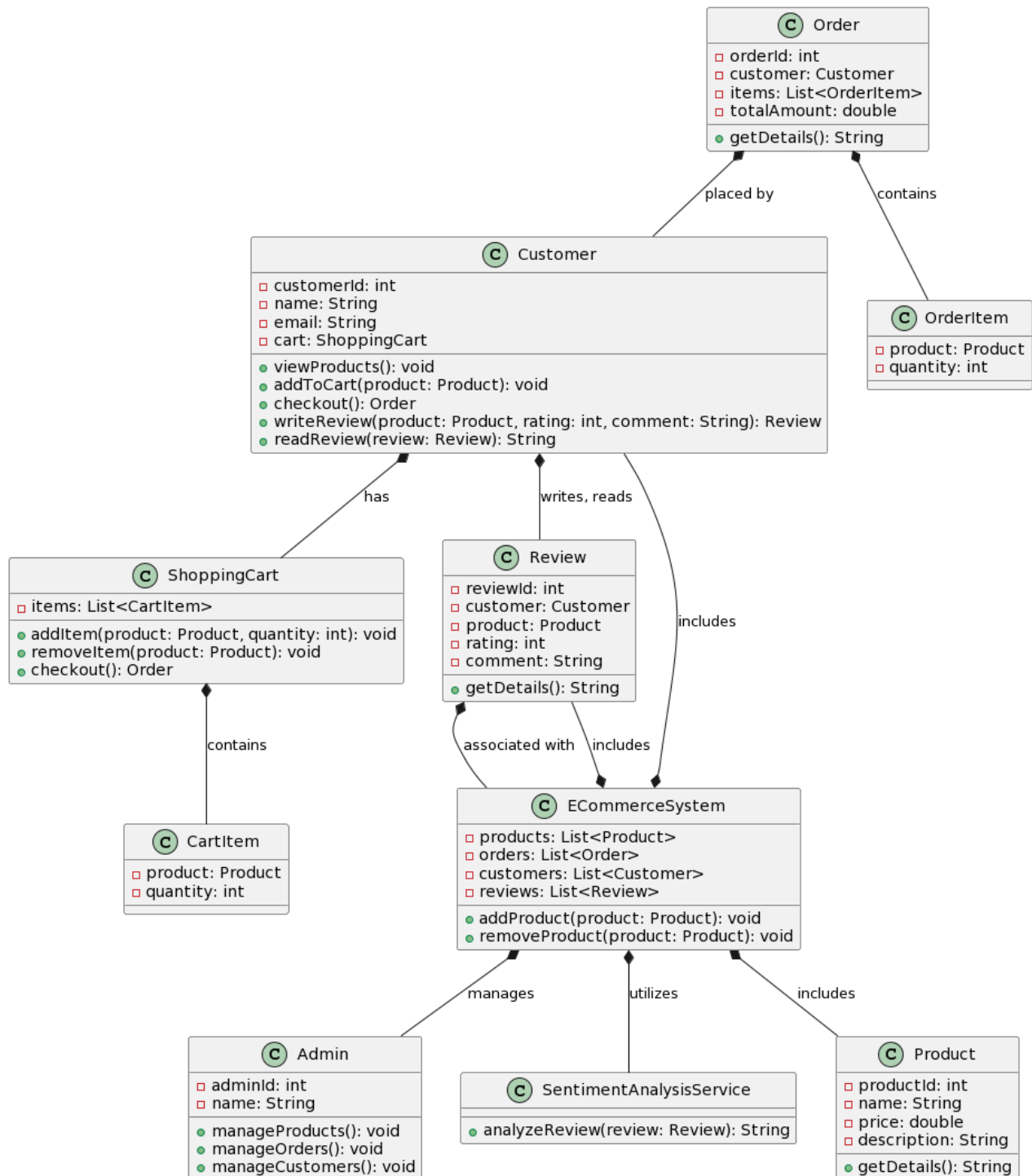
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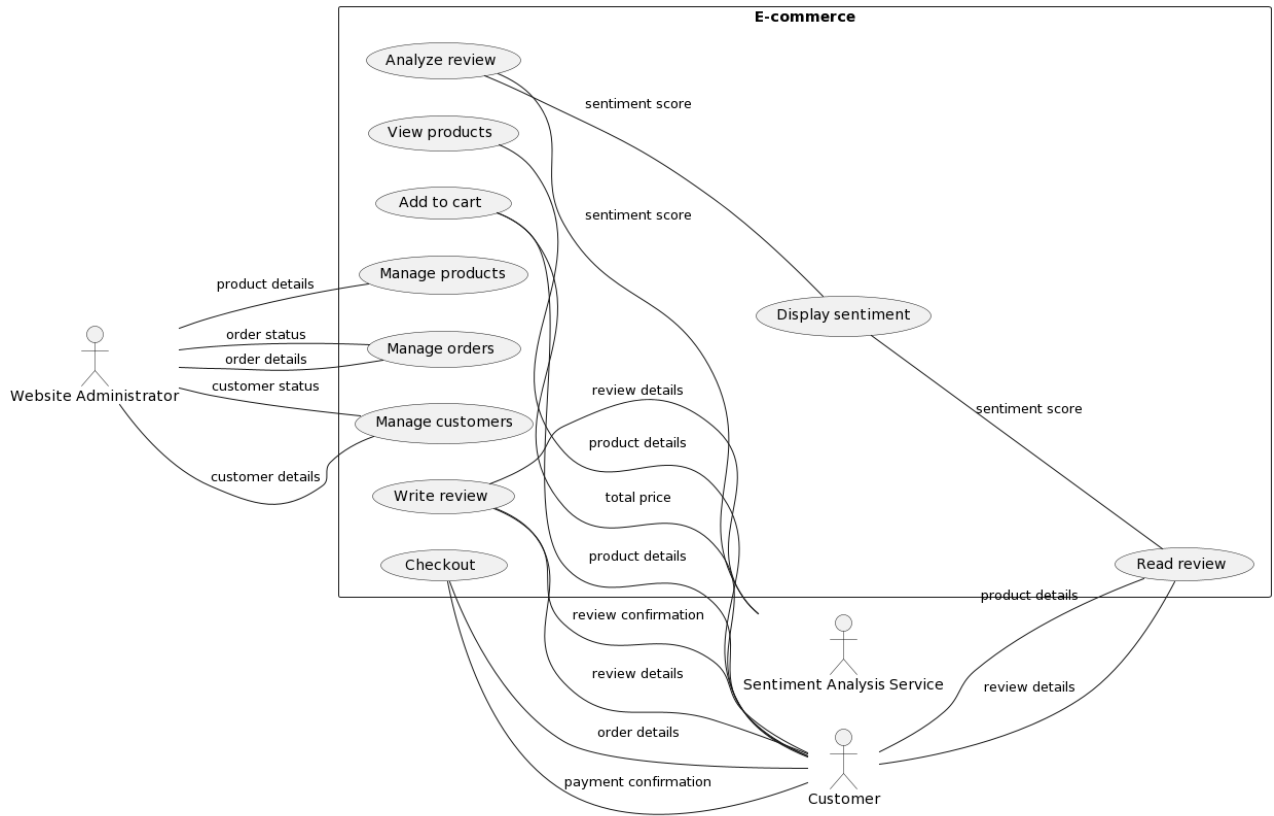
1 USE CASE DIAGRAM



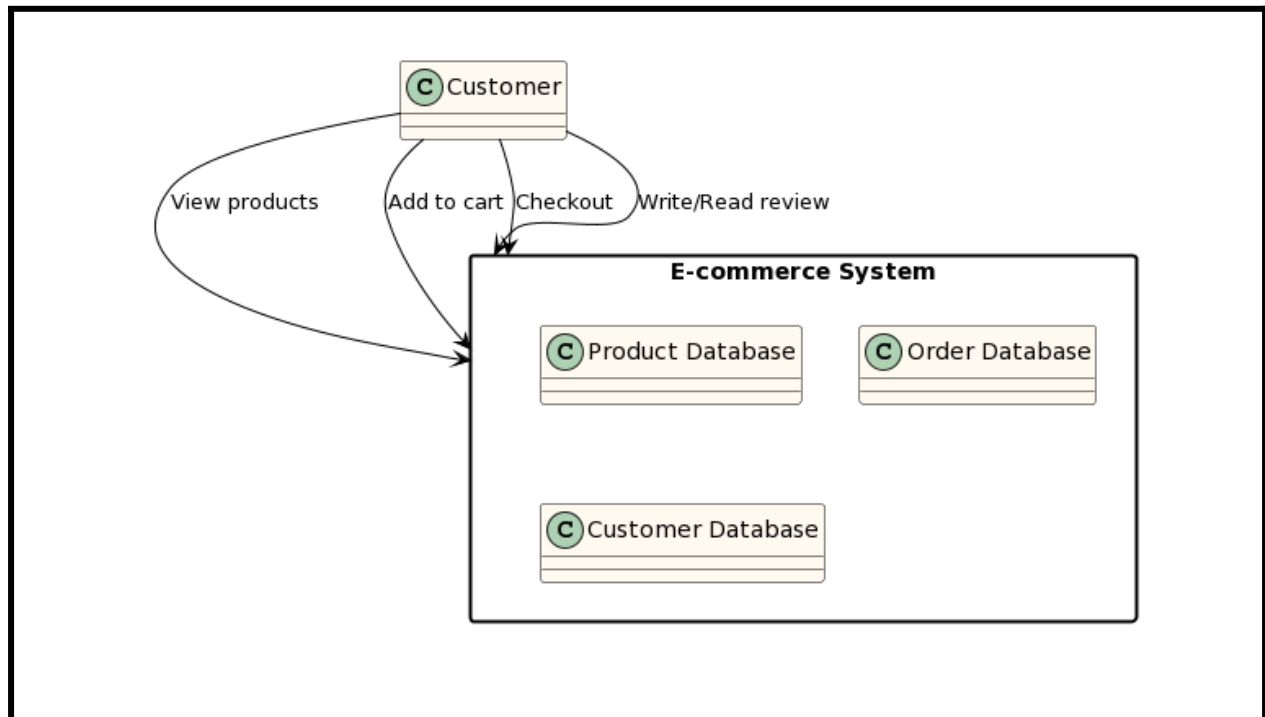
2 CLASS DIAGRAM:

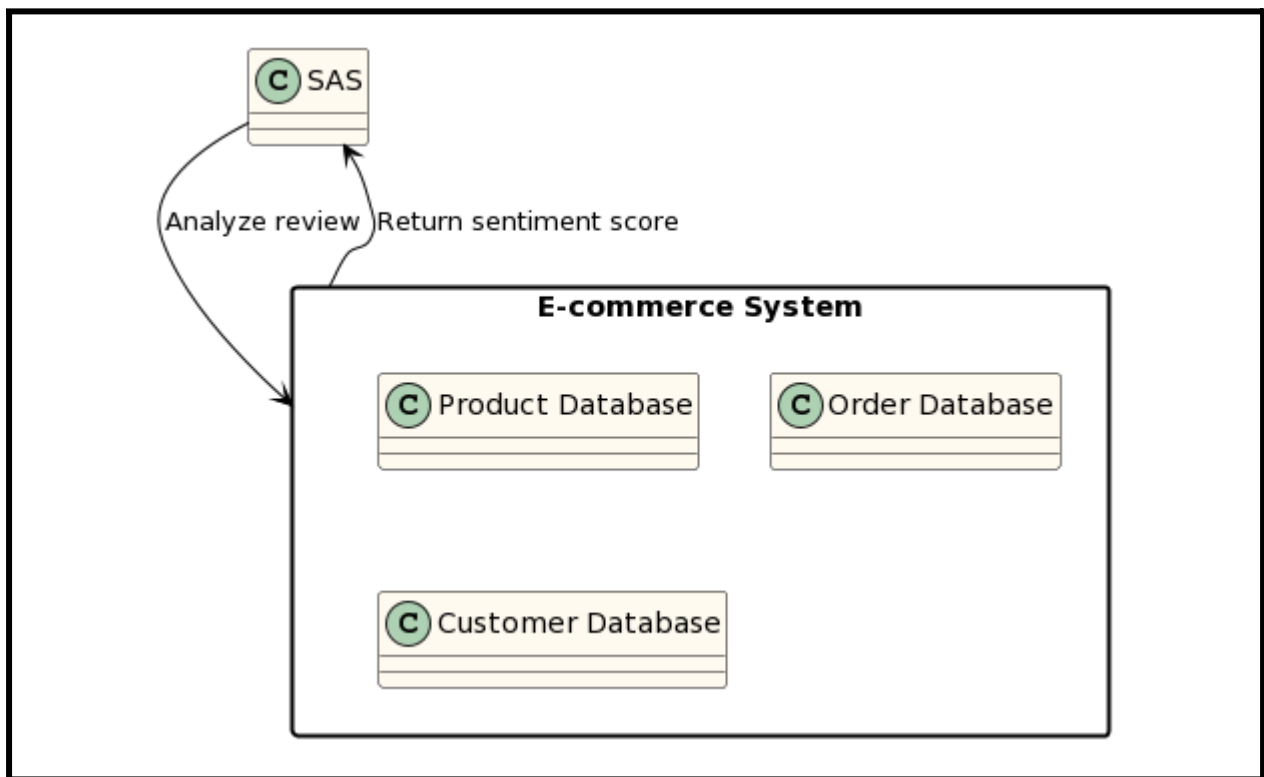
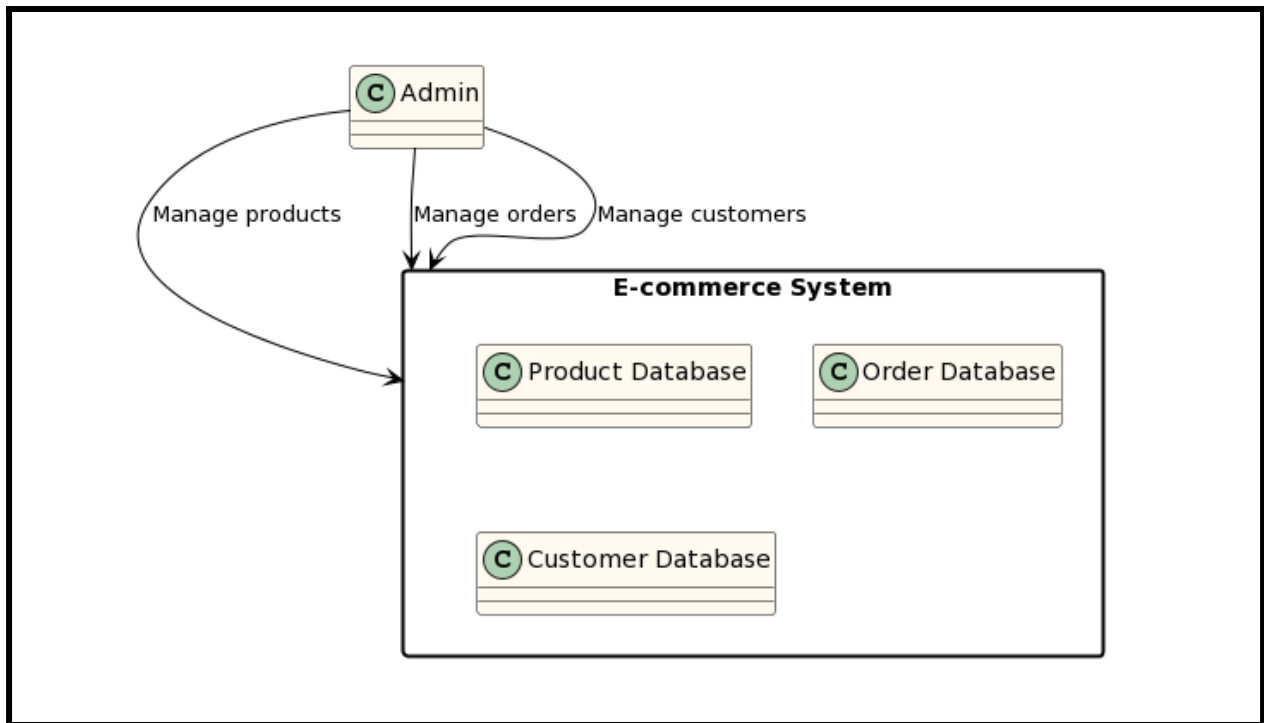


3 TOP LEVEL DATA FLOW DIAGRAM



4 FIRST LEVEL DFD





5 E-Commerce Website - Architectural Style Integration

Client-Server Architecture

Features of Client-Server Architecture:

Centralized Data Management:

User profiles, product details, and order information are centrally stored on the server.

Simplifies data management for consistent and secure access.

Enforces data integrity, backup, and security measures.

Security:

Manages sensitive information like product details, financial transactions, and customer data.

Centralized server implements authentication, authorization, encryption, and other security protocols.

Collaboration and Real-Time Features:

Facilitates real-time communication and collaboration.

Acts as a central hub for clients to exchange data, ensuring synchronization of messages and updates.

Consistency and Reliability:

Maintains a consistent user experience.

All users access the same server, ensuring consistency in product data and features.

Maintenance and Updates:

Easier updates, bug fixes, and feature additions.

Modifications to the server can occur independently without affecting clients.

Ensures users have access to the latest version of the e-commerce platform, reducing the need for client updates.

Cross-Platform Compatibility:

Supports various devices and operating systems for user access.

Users experience consistency across platforms as the backend is accessed through the server.

Enhances accessibility and user experience.

Data Backup and Recovery:

Centralized server allows routine backups of product data, orders, and customer information.

Simplifies data recovery in case of loss or system failures.