Project Design Phase-II

Data Flow Diagram & User Stories

Field	Value
Date	
Team ID	PNT2025TMID09483
Project Name	ShopEZ: E-commerce Application
Maximum Marks	4 Marks
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Data Flow Diagrams:

A **Data Flow Diagram (DFD)** illustrates how data moves within the ShopEZ e-commerce platform. It captures how users (customers, sellers, and administrators) interact with the system, how information flows between different components, and where the data is stored.

Context Diagram (Level 0)

Level 1 DFD - ShopEZ E-commerce System

External Entities:

- Customer
- Seller
- Administrator
- Payment Gateway
- Shipping Service

Processes:

- 1. User Management
- 2. Product Catalog Management
- 3. Order Processing

- 4. Payment Processing
- 5. Analytics & Reporting
- 6. Review & Rating System
- 7. Inventory Management

Data Stores:

- D1: User Database
- D2: Product Database
- D3: Order Database
- D4: Payment Database
- D5: Review Database
- D6: Analytics Database

Data Flows:

- Customer → Process 1: Registration/Login Details
- Process 1 → D1: User Information
- Customer → Process 2: Search/Browse Requests
- Process 2 → D2: Product Queries
- D2 → Process 2: Product Information
- Process 2 → Customer: Product Details, Recommendations
- Customer → Process 3: Order Details
- Process 3 → D3: Order Information
- Process 3 → Process 4: Payment Request
- Process 4 → Payment Gateway: Payment Details
- Payment Gateway → Process 4: Payment Confirmation
- Process 4 → D4: Transaction Record
- Process 3 → Seller: Order Notification
- Process 3 → Shipping Service: Shipping Request
- Seller → Process 7: Inventory Updates
- Process 7 → D2: Stock Information
- Customer → Process 6: Review/Rating
- Process 6 → D5: Review Data
- Administrator → Process 5: Report Requests
- Process 5 → D6: Analytics Data

Process 5 → Administrator: Reports & Insights