

# ShopSmart: Your Digital Grocery Store Experience

Date: 30 January

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Maximum Marks: 4

## 1. Data Flow Diagram (DFD)

### Level 0 – Context Diagram

External Entities: Customer, Admin, Payment Gateway, Delivery Partner

Process: ShopSmart Online Grocery System

Data Flows: Customer actions, order confirmation, payment processing, delivery details, admin management

### Level 1 – Detailed DFD

**User Management:** Input: Register/Login details | Process: Verify credentials | Output: Login status | Data Store: User Database

**Product Browsing:** Input: Search request | Process: Fetch product details | Output: Product list | Data Store: Product Database

**Cart Management:** Input: Add/remove items | Process: Update cart | Output: Updated cart | Data Store: Cart Database

**Order Processing:** Input: Place order | Process: Generate bill | Output: Order confirmation | Data Store: Order Database

**Payment Processing:** Input: Payment details | Process: Validate payment | Output: Payment status | External: Payment Gateway

**Delivery Management:** Input: Delivery request | Process: Assign partner | Output: Delivery status | External: Delivery Partner

## 2. User Stories

### Customer Stories

- 1 As a customer, I want to register an account so that I can purchase groceries online.
- 2 As a customer, I want to search products so that I can find required items quickly.
- 3 As a customer, I want to add items to cart so that I can buy multiple items together.
- 4 As a customer, I want to make online payment so that I can complete my order easily.
- 5 As a customer, I want to track my order so that I know delivery status.

### Admin Stories

- 1 As an admin, I want to add/update products so that inventory stays updated.
- 2 As an admin, I want to view orders so that I can manage deliveries.
- 3 As an admin, I want to remove unavailable items so customers only see valid products.
- 4 As an admin, I want to monitor payments so that transactions remain secure.

## **Delivery Partner Stories**

- 1 As a delivery partner, I want to receive assigned orders so that I can deliver groceries.
- 2 As a delivery partner, I want to update delivery status so customers stay informed.