ENTERPRISE PROGRAMMING

# EGOODS: E-Commerce Goods Management System

An E-Commerce Goods Management System (EGOODS) is a software application designed to manage the various aspects of an online shopping platform. This includes user management, product management, order processing, transaction tracking, and shopping cart management. The system supports a comprehensive lifecycle of e-commerce activities from user registration to order completion.

## Tables:

### 1. Orders Table

Purpose: This table stores information about orders placed by users.

Columns:

**• orderid:** Unique identifier for each order.  
**• prodid:** Identifier for the product being ordered.  
**• quantity:** Quantity of the product ordered.  
**• amount:** Total amount for the order.  
**• shipped:** Indicates whether the order has been shipped (1 for shipped, 0 for not shipped).

Relationships:

• Each order is associated with a specific product (prodid).

### 2. Product Table

Purpose: This table holds the details of products available for sale.

Columns:

**• prodid:** Unique identifier for each product.  
• Additional columns can be specified as per requirements (e.g., name, price, category).

### 3. Transactions Table

Purpose: This table records the transaction details for each purchase.

Columns:

**• transid:** Unique identifier for each transaction.  
**• username:** The email of the user who made the transaction.  
**• time:** Timestamp of when the transaction occurred.  
**• amount:** Total amount involved in the transaction.

Relationships:

• Each transaction is linked to a user (username).

### 4. User Table

Purpose: This table stores information about users registered on the platform.

Columns:

**• email:** Unique identifier for each user (used as a primary key).  
**• name:** Name of the user.  
**• mobile:** Mobile number of the user.  
**• address:** Residential address of the user.  
**• pincode:** Postal code associated with the user's address.  
**• password:** User's password for account access.

Relationships:

• Users may have multiple transactions and orders.

### 5. User Demand Table

Purpose: This table captures the demand for products requested by users.

Columns:

**• username:** The email of the user making the request.  
**• prodid:** Identifier of the product requested.  
**• quantity:** Quantity of the product requested.

Relationships:

• Each demand entry is linked to a specific product and user.

### 6. User Cart Table

Purpose: This table stores the items added to the cart by users before making a purchase.

Columns:

**• username:** The email of the user who owns the cart.  
**• prodid:** Identifier of the product added to the cart.  
**• quantity:** Quantity of the product in the cart.

Relationships:

• Each cart entry is linked to a specific product and user.

## Project Workflow:

### Order Creation

Users place an order for products, and the details are recorded in the Orders table.

### Transaction Logging

The system logs the transaction details in the Transactions table once the payment is completed.

### User Management

Users can register, update their details, and manage their accounts, all of which are handled in the User table.

### Cart Management

Users can add items to their cart and proceed to checkout. The cart details are stored in the User Cart table.

WORKFLOW DIAGRAM:

