

# Scenario: "Modern Lifestyle Shopping Mall, UrbanShop"

## Background

UrbanShop is an online shopping mall that sells modern and trendy products. Customers can browse and purchase a variety of products such as clothing, electronics, and home decor. The business must be designed with scalability in mind, ensuring systematic management of customer data, product data, and order history.

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## Key Requirements

### Customer Management

- Customers register their information to use the shopping mall.
- Customer information includes name, email, phone number, and password.
- Each customer can have multiple shipping addresses.
- Customers can leave reviews for products.

### Product Management

- Products have a unique ID, name, price, category, description, and brand information.
- Each product's stock quantity must be tracked, with a minimum stock threshold set.
- Products can have multiple attached images.
- Specific products can participate in promotions (discount price, duration, etc.).

### Order Management

- Customers can order multiple products at once.
- Orders include the customer, order date, shipping address, and order status (e.g., "Processing," "Shipped," "Delivered," "Canceled").
- Each order's details include product, quantity, unit price, and subtotal.
- Shipping tracking numbers and courier information must be stored.

## **Payment Management**

- Payments support various methods such as credit card, PayPal, and bank transfer.
- Payment information includes the payment method, payment date, and total payment amount.
- Orders must have a payment status (e.g., "Pending," "Completed," "Refunded").

## **Reviews and Ratings**

- Customers can leave reviews and ratings for products.
- Reviews include the creation date, content, and a rating (1–5 stars).
- Each product can have multiple reviews, and its average rating must be calculable.

## **Admin Features**

- Admins can add, update, and delete products.
- Admins can manage the customer list and update order statuses.