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package com.example.Assignment.Class;
import com.example.Assignment.Enum.OrderStatus;

import java.util.List;

public class Order {

    private int orderId;
    private int userId;
    private OrderStatus orderStatus;
    private float totalAmount;
    private List<Product> products;
    private Payment payment;
    private User users;

    public Order(int orderId, int userId, OrderStatus orderStatus, float totalAmount, List<Product> products, Payment payment, User users) {
        this.orderId = orderId;
        this.userId = userId;
        this.orderStatus = orderStatus;
        this.totalAmount = totalAmount;
        this.products = products;
        this.payment = payment;
        this.users = users;
    }

    public void addProduct(Product product) {
        products.add(product);
    }

    public void updateStatus(String status) {
        this.orderStatus = OrderStatus.COMPLETED;
    }

    public List<Product> viewOrderDetails() {
        return products;
    }

    public void cancelOrder() {
        this.orderStatus = OrderStatus.CANCELED;
    }

    public void manageOrder(Product product){
        addProduct(product);
    }

    public String createOrder(Order order){
        return "order placed successfully";
    }
    //Getter and Setters
}

package com.example.Assignment.Class;
import com.example.Assignment.Enum.PaymentStatus;

public class Payment {

    private String paymentId;
    private float amount;
    private PaymentStatus status;
    private Order order;

    public Payment(String paymentId, float amount, PaymentStatus status, Order order) {
        this.paymentId = paymentId;
        this.amount = amount;
        this.status = status;
        this.order = order;
    }

    public void process() {
        this.status = PaymentStatus.COMPLETED;
    }

    public void refund() {

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        this.status = PaymentStatus.REFUNDED;
    }
    //Getter and Setters
}

package com.example.Assignment.Class;
import java.util.List;

public class Product {
    private int productId;
    private String name;
    private String description;
    private String productImage;
    private float price;
    private int stockQuantity;
    private Order order;

    public Product() {
    }

    public Product(int productId, String name, String description, String productImage, float price, int stockQuantity, Order order) {
        this.productId = productId;
        this.name = name;
        this.description = description;
        this.productImage = productImage;
        this.price = price;
        this.stockQuantity = stockQuantity;
        this.order = order;
    }

    public int viewProduct(){
        return productId;
    }

    public int updateStock(int stockQuantity){
        return stockQuantity;
    }

    public String removeProduct(int id){
        return "deleted";
    }

    public Product addProduct(Product product){
        return product.addProduct(product);
    }

    //Getter and Setters
}

package com.example.Assignment.Class;

import java.util.ArrayList;
import java.util.List;

public class User {

    private int userId;
    private String name;
    private String email;
    private String password;
    private List<Order> orders;

    public User() {
    }
    public User(int userId, String name, String email, String password) {
        this.userId = userId;
        this.name = name;
        this.email = email;
        this.password = password;
        this.orders = new ArrayList<>();
    }
    public boolean loginUser(String inputUsername, String inputPassword) {
        if (name.equals(inputUsername) && password.equals(inputPassword)) {

            return true;
        } else {
            return false;
        }
    }
}

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public int logoutUser() {
    return userId;
}

public void createUser(String name, String email, String password) {
    System.out.println("User created: " + name);
}

public void deleteUser(int userId) {
    System.out.println("User with ID " + userId + " deleted.");
}

public void updateUser(String newUsername, String newEmail, String newPassword) {

    this.name = newUsername;
    this.email = newEmail;
    this.password = newPassword;
    System.out.println("User information updated.");

}

public List<Order> viewOrder() {
    return orders;

}

//Getter and Setters
}

package com.example.Assignment.Enum;

public enum OrderStatus {
    PENDING,
    COMPLETED,
    SHIPPED,
    CANCELED
}

package com.example.Assignment.Enum;

public enum PaymentStatus {

    PENDING,
    COMPLETED,
    REFUNDED,
    FAILED
}

```