import java.util.Date;

class User {

private boolean role;

private String loginId;

private String password;

public User(boolean role, String loginId, String password) {

this.role = role;

this.loginId = loginId;

this.password = password;

}

public boolean verifyUser() {

// Logic to verify user

// For this example, let's just return true for demonstration purposes.

return true;

}

}

class Customer extends User {

private String Id;

private String address;

private String phone;

private String email;

public Customer(boolean role, String loginId, String password, String Id, String address, String phone, String email) {

super(role, loginId, password);

this.Id = Id;

this.address = address;

this.phone = phone;

this.email = email;

}

public void login() {

// Logic for customer login

}

public void register() {

// Logic for customer registration

}

public void updateProfile() {

// Logic to update customer profile

}

}

class Seller extends User {

private String Id;

private String address;

private String phone;

private int sellerRating;

public Seller(boolean role, String loginId, String password, String Id, String address, String phone, int sellerRating) {

super(role, loginId, password);

this.Id = Id;

this.address = address;

this.phone = phone;

this.sellerRating = sellerRating;

}

public void login() {

// Logic for seller login

}

public void register() {

// Logic for seller registration

}

public void updateProfile() {

// Logic to update seller profile

}

}

class Payments {

private String Id;

private String orderId;

private boolean paid;

private int total;

private String details;

public void sendOtp() {

// Logic to send OTP

}

public void confirmTransaction() {

// Logic to confirm transaction

}

public String getPaymentDetails() {

// Logic to get payment details

return details;

}

public void makeTransaction() {

// Logic to make transaction

}

}

class Product {

private String productID;

private String productName;

private String sellerID;

private Date postedDate;

public void addToCart() {

// Logic to add product to cart

}

public void sellProduct() {

// Logic to sell product

}

public String getProductDetails() {

// Logic to get product details

return productName;

}

public void buyProduct() {

// Logic to buy product

}

}

class ShoppingCart {

private Date created;

public void addCartItem() {

// Logic to add item to cart

}

public void checkOut() {

// Logic to check out items

}

public void viewCartDetails() {

// Logic to view cart details

}

public void updateQuantity() {

// Logic to update item quantity

}

}

class Reviews {

private String reviewID;

private String customerID;

private String reviewContent;

private int rating;

private String parentID;

private String productID;

public void addReview() {

// Logic to add review

}

public void deleteReview() {

// Logic to delete review

}

public void editReview() {

// Logic to edit review

}

}

class Orders {

private String id;

private String sellerID;

private String customerID;

private String productID;

private String totalAmount;

private Date orderDate;

private String address;

private Date deliveredDate;

private String deliveryStatus;

public void placeOrder() {

// Logic to place order

}

}

public class Main {

public static void main(String[] args) {

// Example usage of the classes and their methods

Customer customer = new Customer(true, "customer123", "password123", "C123", "123 Main St", "555-1234", "customer@example.com");

customer.login();

customer.register();

customer.updateProfile();

Seller seller = new Seller(true, "seller456", "password456", "S456", "456 Market St", "555-5678", 4);

seller.login();

seller.register();

seller.updateProfile();

Product product = new Product();

product.addToCart();

product.sellProduct();

product.getProductDetails();

product.buyProduct();

ShoppingCart cart = new ShoppingCart();

cart.addCartItem();

cart.checkOut();

cart.viewCartDetails();

cart.updateQuantity();

Reviews review = new Reviews();

review.addReview();

review.deleteReview();

review.editReview();

Orders order = new Orders();

order.placeOrder();

}

}