import java.util.ArrayList;

import java.util.List;

import java.util.Scanner;

class Inventory {

private int inventory\_id;

private List<String> inventory\_items;

private int inventory\_number;

private String inventory\_type;

private String inventory\_description;

public Inventory(int id, List<String> items, int number, String type, String description) {

this.inventory\_id = id;

this.inventory\_items = items;

this.inventory\_number = number;

this.inventory\_type = type;

this.inventory\_description = description;

}

public int getInventory\_id() {

return inventory\_id;

}

public List<String> getInventory\_items() {

return inventory\_items;

}

public int getInventory\_number() {

return inventory\_number;

}

public String getInventory\_type() {

return inventory\_type;

}

public String getInventory\_description() {

return inventory\_description;

}

}

class Customer {

private int customer\_id;

private String customer\_name;

private String customer\_mobile;

private String customer\_email;

private String customer\_username;

private String customer\_password;

private String customer\_address;

public Customer(int id, String name, String mobile, String email, String username, String password, String address) {

this.customer\_id = id;

this.customer\_name = name;

this.customer\_mobile = mobile;

this.customer\_email = email;

this.customer\_username = username;

this.customer\_password = password;

this.customer\_address = address;

}

public int getCustomer\_id() {

return customer\_id;

}

public String getCustomer\_name() {

return customer\_name;

}

public String getCustomer\_mobile() {

return customer\_mobile;

}

public String getCustomer\_email() {

return customer\_email;

}

public String getCustomer\_username() {

return customer\_username;

}

public String getCustomer\_password() {

return customer\_password;

}

public String getCustomer\_address() {

return customer\_address;

}

}

class SalesAndInventoryManagementSystem {

private List<Inventory> inventories;

private List<Customer> customers;

public SalesAndInventoryManagementSystem() {

this.inventories = new ArrayList<>();

this.customers = new ArrayList<>();

}

public void addInventory(Inventory inventory) {

inventories.add(inventory);

}

public void addCustomer(Customer customer) {

customers.add(customer);

}

public List<Inventory> getInventories() {

return inventories;

}

public List<Customer> getCustomers() {

return customers;

}

}

public class Main {

private static final Scanner scanner = new Scanner(System.in);

public static void main(String[] args) {

SalesAndInventoryManagementSystem system = new SalesAndInventoryManagementSystem();

// Taking input for Inventory ID

int inventoryId = promptForInteger("Enter Inventory ID:");

// Taking input for the rest of the Inventory

int numberOfItems = promptForInteger("Enter number of items in the inventory:");

System.out.println("Enter Inventory Type:");

String inventoryType = scanner.nextLine();

System.out.println("Enter Inventory Description:");

String inventoryDescription = scanner.nextLine();

List<String> inventoryItems = new ArrayList<>();

for (int i = 0; i < numberOfItems; i++) {

System.out.println("Enter Item " + (i + 1) + ":");

inventoryItems.add(scanner.nextLine());

}

Inventory inventory = new Inventory(inventoryId, inventoryItems, numberOfItems, inventoryType, inventoryDescription);

system.addInventory(inventory);

// Taking input for Customer

int customerId = promptForInteger("Enter Customer ID:");

System.out.println("Enter Customer Name:");

String customerName = scanner.nextLine();

System.out.println("Enter Customer Mobile:");

String customerMobile = scanner.nextLine();

System.out.println("Enter Customer Email:");

String customerEmail = scanner.nextLine();

System.out.println("Enter Customer Username:");

String customerUsername = scanner.nextLine();

System.out.println("Enter Customer Password:");

String customerPassword = scanner.nextLine();

System.out.println("Enter Customer Address:");

String customerAddress = scanner.nextLine();

Customer customer = new Customer(customerId, customerName, customerMobile, customerEmail,

customerUsername, customerPassword, customerAddress);

system.addCustomer(customer);

// Displaying information

System.out.println("Inventory Details:");

for (Inventory inv : system.getInventories()) {

System.out.println("ID: " + inv.getInventory\_id());

System.out.println("Items: " + inv.getInventory\_items());

System.out.println("Number: " + inv.getInventory\_number());

System.out.println("Type: " + inv.getInventory\_type());

System.out.println("Description: " + inv.getInventory\_description());

System.out.println("-------------");

}

System.out.println("Customer Details:");

for (Customer cust : system.getCustomers()) {

System.out.println("ID: " + cust.getCustomer\_id());

System.out.println("Name: " + cust.getCustomer\_name());

System.out.println("Mobile: " + cust.getCustomer\_mobile());

System.out.println("Email: " + cust.getCustomer\_email());

System.out.println("Username: " + cust.getCustomer\_username());

System.out.println("Address: " + cust.getCustomer\_address());

System.out.println("-------------");

}

scanner.close();

}

private static int promptForInteger(String message) {

while (true) {

try {

System.out.print(message + " ");

return Integer.parseInt(scanner.nextLine());

} catch (NumberFormatException e) {

System.out.println("Invalid input. Please enter a valid integer.");

}

}

}

}