# \* 学习目标

- \* 理解茶城的业务逻辑
  - \* xmind
- \* 掌握茶城项目的分包规则
  - \* bean(entity),ui(view),utils,db,client,manager
- \* 掌握茶城项目的实体类编写
- \* 掌握茶城项目的数据初始化
  - \* 构造器: 构造方法
    - \* 与类同名
    - \* 没有返回值
- \* 掌握茶城项目的Menu的编写
  - \* 登陆界面
  - \* 茶友管理界面
    - \*茶友信息管理
      - \*显示所有茶友信息
      - \*添加茶友信息
      - \*修改茶友信息
      - \*查询茶友信息
    - \*茶叶结算
      - \* 购物结算
        - \* 消费清单
    - \*回馈
      - \*幸运大回馈
      - \*抽奖
      - \*生日问候
    - \*注销

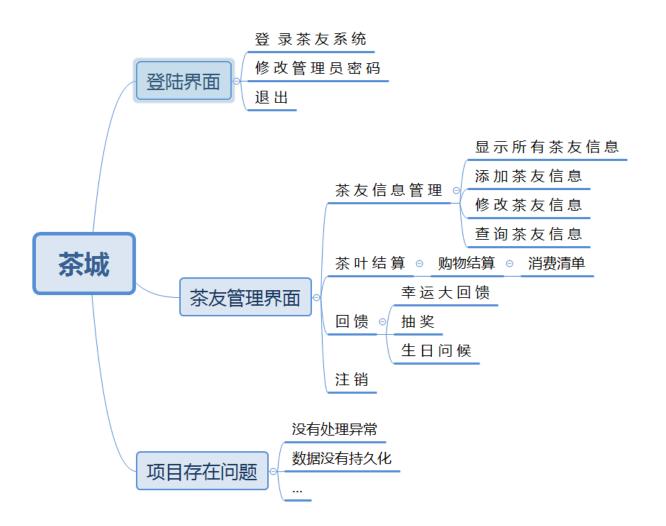
- \* 掌握茶友管理者编写
  - \*显示所有茶友信息
  - \*添加茶友信息
  - \*修改茶友信息
  - \*查询茶友信息
  - \*返回上一级菜单
- \* 掌握反馈管理者编写
  - \*幸运大回馈
  - \*抽奖
  - \*生日问候
  - \*返回上一级菜单
- \* 掌握结算管理者编写
  - \* 购物结算并打印消费清单
  - \*返回上一级菜单
- \* 掌握茶城客户端编写

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- \* 学习目标
  - \* 理解茶城的业务逻辑
    - \* 茶城演示

\* 用户名: xiaohei,密码:123

\* 业务逻辑



# \* 掌握茶城项目的分包规则

- \* com.shopping.lg.bean(entity):实体(茶友,礼物,商品,管理员)
- \* com.shopping.lg.db:存放数据(做了一些数据初始化)
- \* com.shopping.lg.ui(view):视图层
- \* com.shopping.lg.manager:业务层(业务的管理者)
- \* com.shopping.lg.utils:工具类
- \* com.shopping.lg.client:客户端启动

```
✓ Igshopping
→ JRE System Library [JavaSE-1.8]
✓ # src
→ # com.shopping.lg.bean
→ # com.shopping.lg.cleint
→ # com.shopping.lg.db
→ # com.shopping.lg.manager
→ # com.shopping.lg.ui
→ # com.shopping.lg.ui
```

## \* 掌握茶城项目的实体类编写

```
1 package com.shopping.lg.bean;
 2
 3 /**
4 * @author xiaozhao
5 * 用户类
6 */
7 public class Customer {
      public long id;//用户的id
8
      public String birthday;//用户生日
9
      public int score;//用户积分
10
11 }
12
package com.shopping.lg.bean;
14
15 /**
16 * @author xiaozhao
17 * 礼物类
18 */
19 public class Gift {
      public String name; //礼物的名字
20
      public double price;//礼物的价格
21
      // 礼物输出信息
22
23
      @Override
24
      public String toString() {
          return "一个价值Y" + price + "的" + name;
25
```

```
26
27 }
28
29 package com.shopping.lg.bean;
30
31 /**
32
   * @author xiaozhao
33
   * 商品类
34
   */
35 public class Goods {
       public String name;//商品的名字
36
       public double price;//商品的价格
37
       // 商品输出信息
38
      @Override
39
40
       public String toString() {
          return "一个价值Y" + price + "的" + name;
41
       }
42
43 }
44
45 package com.shopping.lg.bean;
46
47 /**
   * @author xiaozhao
48
49
   * 管理员
   */
50
51 public class Manager {
       public String name;//管理员的名字
52
       public String password;//管理员的密码
53
54 }
55
56
```

# \* 掌握茶城项目的数据初始化

```
package com.shopping.lg.db;

import com.shopping.lg.bean.Customer;
import com.shopping.lg.bean.Goods;
import com.shopping.lg.bean.Manager;
```

```
6
  /**
7
   * @author xiaozhao
8
   * 初始化数据
9
   */
10
11 public class DB {
       public Customer customers[]=new Customer[100];//用户集合
12
       public Goods goods[]=new Goods[100];//商品集合
13
       public Manager manager=new Manager();
14
       // 初始化信息
15
       public DB() {// 构造方法(与类同名,没有返回值)
16
          //1 初始化用戶信息
17
          initCustomers();
18
          //2 初始化商品信息
19
20
          initGoods();
          //3 初始化管理员
21
          initManager();
22
23
       }
       /**
24
25
       * 初始化用戶信息
       */
26
27
       private void initCustomers() {
          for (int i = 0; i < customers.length; i++) {</pre>
28
29
               customers[i]=new Customer();
30
          }
          customers[0].id=10001;
31
          customers[0].birthday="08/05";
32
          customers[0].score=1000;
33
34
          customers[1].id=10002;
35
36
          customers[1].birthday="09/06";
          customers[1].score=2000;
37
38
39
          customers[2].id=10003;
          customers[2].birthday="10/08";
40
          customers[2].score=3000;
41
       }
42
43
       //初始化商品信息
44
       private void initGoods() {
45
```

```
46
           for (int i = 0; i < goods.length; i++) {</pre>
               goods[i]=new Goods();
47
           }
48
49
           goods[0].name="铁观音";
50
           goods[0].price=100;
51
52
53
           goods[1].name="普洱";
54
           goods[1].price=199.9;
55
           goods[2].name="红茶";
56
           goods[2].price=99.9;
57
58
59
       }
60
       //初始化管理员
61
       private void initManager() {
62
           manager.name="xiaohei";
63
           manager.password="123";
64
       }
65
66 }
67
```

# \* 掌握茶城项目的Menu的编写

\* Menu数据声明

```
1
       * 商品的数据
 2
       */
 3
      public Goods[] goods = new Goods[100];
4
      /**
5
       * 茶友的数据
6
       */
7
      public Customer[] customers = new Customer[100];
8
9
       /**
10
       * 提供设置数据的方法
11
12
```

```
* @param goods

* @param customers

*/

public void setData(Goods[] goods, Customer[] customers) {
    this.goods = goods;
    this.customers = customers;
}
```

# \* 登陆界面

```
1
      * 1 显示亮哥茶城购物管理系统的登录菜单
2
      */
3
     public void showLoginMenu() {
4
         System.out.println("\n\n\t\t\ 欢迎使用亮哥茶城购物管理系统2.0版\n\n");
5
        System.out.println("* * * * * * * *
6
7
        System.out.println("\t\t\t 1. 登 录 茶 友 系 统\n\n");
         System.out.println("\t\t\t\t 2. 修 改 管 理 员 密 码\n\n");
8
9
         System.out.println("\t\t\t 3. 退 出\n\n");
         10
         System.out.print("请选择,输入数字:");
11
     }
12
13
```

# \* 茶友管理界面

```
/**
 1
       * 2 显示亮哥茶城购物管理系统的主菜单
 2
 3
       */
      public void showMainMenu() {
4
          System.out.println("\n\n\t\t\t\t欢迎使用亮哥茶城购物管理系统\n");
 5
          System.out.println("* * * * * *
6
7
          System.out.println("\t\t\t 1. 茶 友 信 息 管 理\n");
          System.out.println("\t\t\t 2. 茶叶结算\n");
8
9
          System.out.println("\t\t\t 3. 回 馈\n");
          System.out.println("\t\t\t 4. 注 销\n");
10
11
          System.out.println("* * * * * * *
```

```
12
           System.out.print("请选择,输入数字:");
           boolean con=false;
13
           do {
14
               Scanner scanner= new Scanner(System.in);
15
               int command = scanner.nextInt();
16
               switch (command) {
17
               case 1:
18
                   // 1茶友 信 息 管 理
19
                   showCustMenu();
20
                   break;
21
               case 2:
22
                   // 2 购 物 结 算
23
                   showSettlementMenu();
24
25
                   break;
26
               case 3:
                   // 3 真情回馈
27
                   showTrueFeedBackMenu();
28
29
                   break;
               case 4:
30
                   // 4 注 销
31
                   showLoginMenu();
32
33
                   con=true;
34
                   break;
35
               default:
                    System.out.print("输入错误,请重新输入数字:");
36
                    con=false;
37
                   break;
38
39
               }
           }while(!con);
40
41
       }
```

# \*茶友信息管理

- \*显示所有茶友信息
- \*添加茶友信息
- \*修改茶友信息
- \*查询茶友信息

```
1 /**
      * 3 显示亮哥茶城购物管理系统的茶友信息管理菜单
2
      */
3
      public void showCustMenu() {
4
         System.out.println("亮哥茶城购物管理系统> 茶 友信息管理\n");
5
         6
         System.out.println("\t\t\t 1. 显示所有茶友信息\n");
7
         System.out.println("\t\t\t\t 2. 添 加 茶 友 信 息\n");
8
         System.out.println("\t\t\t 3. 修改茶友信息\n");
9
         System.out.println("\t\t\t\t 4. 查询茶友信息\n");
10
         11
         System.out.print("请选择,输入数字或按'n'返回上一级菜单:");
12
13
         Scanner scanner=new Scanner(System.in);
14
         boolean con=true;
         do {
15
            String command = scanner.next();
16
            // 创建用户管理者
17
            CustomerManager cm=new CustomerManager();
18
            // 设置用户数据
19
            cm.setData(goods,customers);
20
21
            switch (command) {
22
            case "1":
                cm.showAllCustomers();
23
24
                break;
            case "2":
25
                cm.addCustomer();
26
27
                break;
            case "3":
28
29
                cm.modifyCustomer();
30
                break;
31
            case "4":
                cm.queryCustomer();
32
                break;
33
            case "n":
34
35
                showMainMenu();
36
                break;
            default:
37
38
                System.out.println("输入错误, 请重新输入数字: ");
39
                con = false;
40
                break;
```

```
41
           }while(!con);
42
       }
43
44
45
46
47
   package com.shopping.lg.manager;
48
49
50 import com.shopping.lg.bean.Customer;
   import com.shopping.lg.bean.Goods;
52
   public class CustomerManager {
53
54
       public void setData(Goods[] goods, Customer[] customers) {
55
56
57
       }
58
       public void showAllCustomers() {
59
60
       }
61
62
63
       public void addCustomer() {
64
65
       }
66
       public void modifyCustomer() {
67
68
69
       }
70
71
       public void queryCustomer() {
72
73
       }
74
75 }
76
```

<sup>\*</sup>茶叶结算

```
**
 1
       * 5 显示亮哥茶城购物管理系统的结账菜单
 2
       */
 3
       public void showSettlementMenu() {
 4
 5
          PayManager payManager=new PayManager();
          // 设置数据
 6
 7
          payManager.setData(goods,customers);
          // 实现购物结算以及输出购物小票
 8
9
          payManager.settlement();
10
       }
11
12
13 package com.shopping.lg.manager;
14
import com.shopping.lg.bean.Customer;
import com.shopping.lg.bean.Goods;
17
  public class PayManager {
18
19
20
       public void setData(Goods[] goods, Customer[] customers) {
21
22
       }
23
24
       public void settlement() {
25
26
       }
27
28 }
29
```

- \*回馈
  - \*幸运大回馈
  - \*抽奖

```
/**
 1
       * 4 显示亮哥茶城购物管理系统的回馈菜单
 2
       */
 3
      public void showTrueFeedBackMenu() {
4
 5
           System.out.println("亮哥茶城购物管理系统 > 真情回馈\n");
           6
7
           System.out.println("\t\t\t 1. 幸运大回馈\n");
           System.out.println("\t\t\t 2. 抽 奖\n");
8
           System.out.println("\t\t\t 3. 生 日 问 候\n");
9
           System.out.println("* * * * * * * * * * * * * * * * * *
10
           System.out.print("请选择,输入数字或按'n'返回上一级菜单:");
11
12
           Scanner scanner=new Scanner(System.in);
13
              boolean con=true;
             do {
14
                 String command = scanner.next();
15
                 // 创建礼品管理者
16
                 FeedBackManager gm=new FeedBackManager();
17
                 // 设置礼品数据
18
19
                 gm.setData(goods,customers);
20
                 switch (command) {
                 case "1":
21
                     gm.sendBigLuckToCust();
22
23
                     break;
                 case "2":
24
                     gm.sendLuckyToCust();
25
26
                     break;
                 case "3":
27
28
                     gm.sendBirthToCust();
29
                     break;
                 case "n":
30
31
                     showMainMenu();
                     break;
32
                 default:
33
                     System.out.println("输入错误, 请重新输入数字: ");
34
35
                     con = false;
                     break;
36
                 }
37
```

```
38
                }while(!con);
39
                scanner.close();
       }
40
41
42
   package com.shopping.lg.manager;
43
44
   import com.shopping.lg.bean.Customer;
   import com.shopping.lg.bean.Goods;
46
   public class FeedBackManager {
47
48
       public void setData(Goods[] goods, Customer[] customers) {
49
50
51
       }
52
53
       public void sendBigLuckToCust() {
54
       }
55
56
       public void sendLuckyToCust() {
57
58
59
       }
60
       public void sendBirthToCust() {
61
62
       }
63
64
65 }
66
```

- \*注销
- \* 掌握茶友管理者编写
  - \* 茶友管理者数据声明

```
1 // 商品数据
2    public Goods[] goods = new Goods[100];
3    // 用户数据
4    public Customer[] customers = new Customer[100];
```

```
public void setData(Goods[] goods, Customer[] customers) {
    this.customers = customers;
    this.goods = goods;
}
```

### \*返回上一级菜单

```
// 返回上级菜单
1
 2
      public void returnLastMenu() {
          System.out.print("\n\n请按'n'返回上一级菜单:");
 3
          boolean con = true;
4
 5
          Scanner scanner = new Scanner(System.in);
6
          do {
 7
              String command = scanner.next();
              if ("n".equals(command)) {
8
9
                  Menu menu = new Menu();
                  menu.setData(goods, customers);
10
                  // 用户菜单
11
12
                  menu.showCustMenu();
13
              } else {
                  System.out.print("输入错误, 请重新'n'返回上一级菜单:");
14
                  con = false;
15
               }
16
          } while (!con);
17
      }
18
```

# \*显示所有茶友信息

```
public void showAllCustomers() {
1
        System.out.println("亮哥茶城购物管理系统 > 茶友信息管理 > 显示茶友信息\n\n"
2
                                           生日
                                                          积分
        System.out.println(" 茶友号
3
        System.out.println("-----");
4
5
        for (int i = 0; i < customers.length; i++) {</pre>
           if (customers[i].id == 0) {
6
              break; // 茶友信息已经显示完毕
7
8
           }
```

#### \*添加茶友信息

```
public void addCustomer() {
 2
          System.out.println("亮哥茶城购物管理系统> 茶友信息管理 > 添加茶友信息");
 3
          String con = "n";
          // 确定插入茶友位置
4
 5
          int index = -1;
          for (int i = 0; i < customers.length; i++) {</pre>
6
 7
              if (customers[i].id == 0) {
                  index = i;
8
9
                  break;
              }
10
          }
11
          // 循环录入茶友信息
12
13
          do {
              Scanner scanner = new Scanner(System.in);
14
              System.out.print("请输入茶友号(<5位整数>): ");
15
              int id = scanner.nextInt();
16
              System.out.print("请输入茶友生日(月/日<用两位数表示>): ");
17
              String birthday = scanner.next();
18
              System.out.print("请输入积分:");
19
              int score = scanner.nextInt();
20
21
              // 茶友号无效则跳出
22
              if (id < 10000) {</pre>
23
                  System.out.println("茶友号" + id + "是无效茶友号!");
24
                  System.out.println("录入信息失败\n");
25
                  System.out.println("继续添加茶友吗? (y/n)");
26
                  con = scanner.next();
27
                  continue;
28
29
              }
```

```
30
              // 添加茶友
31
32
              customers[index].id = id;
              customers[index].birthday = birthday;
33
              customers[index].score = score;
34
              index++;// 注意index要加一
35
              System.out.println("新茶友添加成功!");
36
              System.out.println("继续添加茶友吗? (y/n)");
37
              con = scanner.next();
38
          } while ("y".equalsIgnoreCase(con));
39
          // 返回上一级菜单
40
          returnLastMenu();
41
42
      }
```

### \*修改茶友信息

```
1 public void modifyCustomer() {
        System.out.println("亮哥茶城购物管理系统 > 茶友信息管理 > 修改茶友信息");
2
        System.out.print("请输入茶友号: ");
3
4
        Scanner scanner = new Scanner(System.in);
5
        int id = scanner.nextInt();
        System.out.println(" 茶友号
                                        生日
                                                     积分
                                                              ");
6
        System.out.println("-----");
7
        int index = -1;
8
        for (int i = 0; i < customers.length; i++) {</pre>
9
            if (customers[i].id == id) {
10
11
               System.out.println(customers[i].id + "\t\t" + customers[i].birt
               index = i;
12
               break;
13
14
            }
        }
15
16
        if (index != -1) {
17
            while (true) {
18
               19
               System.out.println("\t\t\t1.修 改 茶 友 生 日.\n");
20
               System.out.println("\t\t\t2.修 改 茶 友 积 分.\n");
21
               22
               System.out.print("请选择,输入数字:");
23
```

```
24
                  switch (scanner.nextInt()) {
                  case 1:
25
                      System.out.print("请输入修改后的生日:");
26
                      customers[index].birthday = scanner.next();
27
                      System.out.println("生日信息已更改!");
28
29
                      break;
                  case 2:
30
                      System.out.print("请输入修改后的茶友积分:");
31
                      customers[index].score = scanner.nextInt();
32
                      System.out.println("茶友积分已更改!");
33
                      break;
34
35
                  }
36
37
                  System.out.println("是否修改其他属性(y/n):");
                  String flag = scanner.next();
38
                  if ("n".equalsIgnoreCase(flag))
39
40
                      break;
41
              }
          } else {
42
              System.out.println("抱歉,没有你查询的茶友。");
43
          }
44
45
          // 返回上一级菜单
          returnLastMenu();
46
47
      }
```

#### \*查询茶友信息

```
1 public void queryCustomer() {
          System.out.println("亮哥茶城购物管理系统 > 茶友信息管理 > 查询茶友信息\\n")
 2
          String con = "y";
 3
          Scanner scanner = new Scanner(System.in);
4
          while ("y".equals(con)) {
 5
             System.out.print("请输入茶友号: ");
6
7
             int id = scanner.nextInt();
             // 查询id是否存在,假如存在打印用户信息,否则提示没有此用户信息
8
             boolean isExitUser = false;
9
             for (int i = 0; i < customers.length; i++) {</pre>
10
                 if (customers[i].id == id) {
11
                     // 表示存在此用户,打印用户资料
12
```

```
13
                     System.out.println(customers[i].id + "\t\t" + customers[i].
                     isExitUser = true;
14
                     break;
15
                  }
16
17
              }
              if (!isExitUser) {
18
                  System.out.println("抱歉,没有你查询的茶友信息。");
19
              }
20
              // 提示是否要继续查询
21
              System.out.print("\n要继续查询吗(y/n):");
22
              con = scanner.next();
23
24
          }
          // 返回上一级菜单
25
          returnLastMenu();
26
27
      }
```

# \* 掌握反馈管理者编写

\* 反馈管理者数据的声明

```
// 商品数据
1
2
       public Goods[] goods = new Goods[100];
       // 用户数据
 3
       public Customer[] customers = new Customer[100];
4
5
       // 设置数据
6
7
       public void setData(Goods[] goods, Customer[] customers) {
          this.goods = goods;
8
9
          this.customers = customers;
10
       }
```

```
/**
1
 2
        * 返回上一级菜单
        */
 3
4
       public void returnLastMenu() {
           System.out.print("\n\n请按'n'返回上一级菜单:");
 5
          Scanner scanner = new Scanner(System.in);
 6
7
          boolean con = true;
          do {
8
               if (scanner.next().equals("n")) {
9
                  Menu menu = new Menu();
10
                  menu.setData(goods, customers);
11
                  menu.showTrueFeedBackMenu();
12
               } else {
13
                  System.out.print("输入错误, 请重新'n'返回上一级菜单:");
14
15
                  con = false;
16
               }
          } while (!con);
17
       }
18
```

## \*幸运大回馈

```
public void sendBigLuckToCust() {
          System.out.println("亮哥茶城购物管理系统 > 幸运大回馈\n\n");
 2
 3
          int index = 0;
4
          int max = customers[0].score;
          // 假定积分各不相同
 5
          for (int i = 0; i < customers.length; i++) {</pre>
6
              if (customers[i].score == 0) {
7
                  break; // 数组后面为空用户
8
              }
9
              // 求最大积分的客户
10
              if (customers[i].score > max) {
11
12
                  max = customers[i].score;
                  index = i;
13
              }
14
          }
15
          System.out.println("具有最高积分的茶友是: " + customers[index].id + "\t"
16
                  + customers[index].score);
17
```

```
18
          // 创建笔记本电脑对象
          Gift iphone = new Gift();
19
          iphone.name = "Iphone9";
20
          iphone.price = 9999;
21
          System.out.print("恭喜! 获赠礼品: ");
22
23
          System.out.println(iphone);
          // 返回上一级菜单
24
          returnLastMenu();
25
26
      }
```

### \*抽奖

```
1 public void sendLuckyToCust() {
          System.out.println("亮哥茶城购物管理系统 > 幸运抽奖\n\n");
 2
 3
          System.out.print("是否开始(y/n):");
          Scanner scanner = new Scanner(System.in);
4
           if(scanner.next().equals("y")){
 5
                 int random = (int)(Math.random()* 10);
 6
7
                 int baiwei; //百位
                 boolean isAvailable = false;
8
                 String list = "";
9
              for(int i = 0; i< customers.length; i++){</pre>
10
11
                 if(customers[i].id==0){
                   break;
12
                 }
13
                 // 10001/100--->100%10
14
15
                 // 88866 ----> 88866/100 ---->8
                baiwei = customers[i].score / 100 % 10;
16
                if(baiwei == random){
17
                   list = list + customers[i].id+ "\t";
18
                   isAvailable = true;
19
               }
20
21
               }
              if(isAvailable){
22
23
                 System.out.println("幸运客户获赠华为荣耀10: " + list);
24
              }else{
                 System.out.println("无幸运客户。");
25
              }
26
             }
27
```

## \*生日问候

```
1 public void sendBirthToCust() {
          System.out.println("亮哥茶城购物管理系统 > 生日问候\n\n");
 2
          System.out.print("请输入今天的日期(月/日<用两位表示>): ");
 3
          Scanner scanner = new Scanner(System.in);
 4
 5
          String date = scanner.next();
6
          System.out.println(date);
          String no = "";
 7
          boolean isAvailable = false;
8
9
          for(int i = 0; i < customers.length; i++){</pre>
              if(customers[i].birthday!=null && customers[i].birthday.equals(date
10
                no = no + customers[i].id + "\n";
11
                isAvailable = true;
12
              }
13
          }
14
          if(isAvailable){
15
               System.out.println("过生日的茶友是: ");
16
17
               System.out.println(no);
             System.out.println("恭喜! 获赠小米音响一个!");
18
19
          }else{
               System.out.println("今天没有过生日的茶友!");
20
          }
21
22
          //返回上一级菜单
23
24
          returnLastMenu();
25
      }
```

- \* 掌握结算管理者编写
  - \* 结算管理者数据声明

```
// 商品数据
 1
 2
       public Goods[] goods = new Goods[100];
       // 用户数据
 3
       public Customer[] customers = new Customer[100];
4
 5
       // 设置数据
6
7
       public void setData(Goods[] goods, Customer[] customers) {
           this.goods = goods;
8
9
           this.customers = customers;
10
       }
```

#### \* 购物结算并打印消费清单

```
1 // 实现购物结算以及输出购物小票
 2
      public void settlement() {
          int curCustNo; // 客户号
 3
          int goodsNo = 0; // 商品编号
 4
          double price; // 商品价格
 5
 6
          String name;
 7
          int count; // 购入数量
          String choice;
8
          String goodsList = ""; // 购物清单
9
          double total = 0; // 购物总金额
10
          double finalPay = 0; // 打折后需付款
11
          double payment; // 实际交费金额
12
          System.out.println("亮哥茶城购物管理系统 > 购物结算\n\n");
13
          // 打印产品清单
14
          System.out.println("******************************);
15
          System.out.println("请选择购买的商品编号:");
16
          for (int i = 0, p = 0; i < goods.length && null != goods[i].name; i++)</pre>
17
18
              p++;
              System.out.println(p + ": " + goods[i].name + "\t");
19
20
          }
          System.out.println("*******************************
n");
21
          /* 进行购入结算系统 */
22
          Scanner input = new Scanner(System.in);
23
          System.out.print("\t请输入茶友号: ");
24
```

```
25
          curCustNo = input.nextInt();
          double discount = getDiscount(curCustNo, customers);
26
          if (discount == -1) {
27
              System.out.println("茶友号输入错误。");
28
          } else {
29
30
              do {
31
                 System.out.print("\t请输入商品编号: "); // 数组下标+1即产品编号
32
                 goodsNo = input.nextInt();
33
                 System.out.print("\t请输入数目:");
34
                 count = input.nextInt();
35
                 // 查询单价
36
                 price = goods[goodsNo - 1].price;
37
38
                 name = goods[goodsNo - 1].name;
                 total = total + price * count;
39
                 // 连接购物清单
40
                 goodsList = goodsList + "\n" + name + "\t" + "\f" + price + "\t
41
42
                         + (price * count) + "\t";
                 System.out.print("\t是否继续(y/n)");
43
                 choice = input.next();
44
              } while (choice.equals("y"));
45
46
              // 计算消费总金额
              finalPay = total * discount;
47
              // 打印消费清单
48
              System.out.println("\n");
49
              50
              System.out.println("物品\t\t" + "单价\t\t" + "个数\t\t" + "金额\t");
51
              System.out.print(goodsList);
52
              System.out.println("\n折扣: \t" + discount);
53
              System.out.println("金额总计:\t" + "\text{" + finalPay);
54
              System.out.print("实际交费:\tY");
55
              payment = input.nextDouble();
56
              System.out.println("找钱:\t" + "Y" + (payment - finalPay));
57
              // 计算获得的积分:
58
              int score = (int) finalPay / 100 * 3;
59
              // 更改茶友积分
60
              for (int i = 0; i < customers.length; i++) {</pre>
61
62
                 if (customers[i].id == curCustNo) {
                     customers[i].score = customers[i].score + score;
63
                     System.out.println("本次购物所获的积分是: " + score);
64
```

```
65
                         break;
                    }
 66
                }
 67
            }
 68
            // 返回上一级菜单
 69
            System.out.print("\n请'n'返回上一级菜单:");
 70
            if (input.next().equals("n")) {
 71
                Menu menu = new Menu();
 72
                menu.setData(goods, customers);
 73
74
                menu.showMainMenu();
            }
 75
 76
        }
 77
        /**
 78
 79
         * 计算客户的折扣数目
         */
 80
        public double getDiscount(int curCustNo, Customer[] customers) {
 81
 82
            double discount;
            int index = -1;
 83
            for (int i = 0; i < customers.length; i++) {</pre>
 84
                if (curCustNo == customers[i].id) {
 85
 86
                     index = i;
                     break;
 87
                }
 88
            }
 89
 90
            if (index == -1) {// 如果茶友号不存在
 91
                discount = -1;
 92
 93
            } else {
94
                // 判断折扣
 95
                int curscore = customers[index].score;
 96
                if (curscore < 1000) {
 97
 98
                     discount = 0.95;
                } else if (1000 <= curscore && curscore < 2000) {</pre>
 99
100
                     discount = 0.9;
                } else if (2000 <= curscore && curscore < 3000) {</pre>
101
102
                     discount = 0.85;
                } else if (3000 <= curscore && curscore < 4000) {</pre>
103
                     discount = 0.8;
104
```

```
105
                 } else if (4000 <= curscore && curscore < 6000) {</pre>
                      discount = 0.75;
106
107
                 } else if (6000 <= curscore && curscore < 8000) {</pre>
                      discount = 0.7;
108
109
                 } else {
110
                      discount = 0.6;
                 }
111
112
             }
             return discount;
113
114
        }
115
```

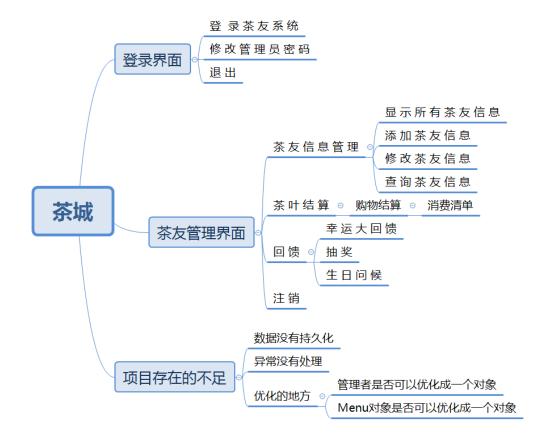
## \* 掌握茶城客户端编写

```
1 package com.shopping.lg.util;
 2 import java.util.*;
 3 public class LoginUtils {
       /**
4
 5
        * 验证管理员的用户名和密码是否相等
6
       public boolean verify(String username, String password){
7
             System.out.print("请输入用户名:");
8
             Scanner input = new Scanner(System.in);
9
             String name = input.next();
10
11
             System.out.print("请输入密码: ");
             input = new Scanner(System.in);
12
             String psw = input.next();
13
             if(name.equals(username) && password.equals(psw)){
14
                 return true;
15
             }else{
16
                 return false;
17
18
             }
19
        }
20 }
21
22
23
```

```
package com.shopping.lg.cleint;
  import java.util.Scanner;
26
  import com.shopping.lg.db.DB;
27
28 import com.shopping.lg.ui.Menu;
29
   import com.shopping.lg.util.LoginUtils;
30
  public class ShoppingClient {
31
      /**
32
        * 亮哥茶城购物管理系统入口
33
34
       */
35
      public static void main(String[] args) {
36
37
          /*出始化商场的商品和客户信息*/
          DB db = new DB();
38
          /*进入系统*/
39
          Menu menu = new Menu();
40
41
          menu.setData(db.goods, db.customers);
42
          menu.showLoginMenu();
          /*菜单选择*/
43
44
          boolean con = true;
45
          while(con){
            Scanner input = new Scanner(System.in);
46
            int choice = input.nextInt();
47
            LoginUtils pv = new LoginUtils();
48
            switch(choice){
49
              case 1:
50
                /*密码验证:超过3次输入,退出*/
51
                for(int i = 3; i>=1; i--){
52
                    if(pv.verify(db.manager.name, db.manager.password)){
53
                        menu.showMainMenu();
54
                        break;
55
                    }else if(i!=1){
56
                        System.out.println("\n用户名和密码不匹配,请重新输入:"); //
57
                    }else{
58
                        System.out.println("\n您输入密码错误超过三次,请联系管理员! 证
59
                        con = false;
60
61
                    }
62
                 }
                break;
63
```

```
64
               case 2:
                 if(pv.verify(db.manager.name, db.manager.password)){
65
                     System.out.print("请输入新的用户名:");
66
                     String name = input.next();
67
                     System.out.print("请输入新的密码: ");
68
                     String pwd = input.next();
69
70
71
                     System.out.print("请再次输入新的密码:");
                     String repwd = input.next();
72
                     if(pwd.equals(repwd)){
73
                         db.manager.name = name;
74
                         db.manager.password = pwd;
75
                         System.out.println("用户名和密码已更改!");
76
77
                     }
78
                     else{
79
                         System.out.println("两次密码不一致。");
80
                     }
81
                     System.out.println("\n请选择,输入数字:");
82
                 }else{
83
                     System.out.println("抱歉,用户名和密码不正确!");
84
85
                     con = false;
                 }
86
                 break;
87
               case 3:
88
                 System.out.println("谢谢您的使用!");
89
                 con=false;
90
                 break;
91
               default:
92
                 System.out.print("\n输入有误! 请重新选择,输入数字:");
93
             }
94
             if(!con){
95
                break;
96
             }
97
98
           }
99
       }
100 }
101
```

## \* 项目存在的不足



- \* 瀑布开发
- \* 敏捷开发(里程碑)