**Shopping cart**

**Purpose:**

This document describes the functionality of physical shopping mart.

It Represents the commodities for sale under the below mentioned classifications:

a. Catalog

b. Category

c. Sub-Category

d. Product/Item

**Classes and methods:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Cust\_registration** | **Cart\_info** | **Products** | **Final\_Implementation** |
| displayCustomerDetails() | setCartDetails() | setProductDetails() | Main method |
|  |  | setLadieswearDetails() |  |
|  |  | setMensWearDetails () |  |
|  |  | setAccessoriesDetails () |  |

* 1. Cust\_registration:
* Declared the attributes of the customer (name, email\_id ,phone number, type of customer(heavy or light).
* Defined constructor and getter and setter value to the attributes using Cust\_registration();
* Defined displayCustomerDetails () method, this will display all the values assigned to the attributes.
  1. cart\_info:

This class gives the information about the availability of carts.

* setCartDetails () is a method that gives us information about the availability of the free carts.
* This method will assign a cart to each customer.
* When a cart is assigned to the customer, the count of the cart decreases.
* If numbers of carts are more than number of customers then it will assign a single to single customer otherwise it displays a error message using catch block.

1.3Products:

* This class will provide a list of products using a method called setProductDetails() Using ArrayList class of collections.
* It consists of 4 different catagories(ladies wear, men’s wear,accessories,exit)
* A choice is provided here, user can shop in any of these catagories using the choice.
* setLadiesWearDetails (), this method is used to display different sections in ladies wear and their associative quantity and price.
* setmensWearDetails(), this method is used to display different sections in men’s wear and their associative quantity and price
* setmensWearDetails(), this method is used to display different sections in men’s wear and their associative quantity and price
* after the customers add the products to the cart, it displays the total amount of the products in the cart.

1.4 Final\_Implementation:

* 1. This class extends Thread class and implements the methods of thread class.
  2. Here, the object of the Cust\_registration class is created and the values of the attributes of customer registration class are assigned using getters and setters.
  3. After, Threads are created based on the number of customers and they are invoked using start () method of thread class.
  4. setproductDetails () method is associated with the threads start() method
  5. This will display the final output.