1. **Use Case Diagram :**

**Dispenser**

**GUy**

**User**

**GUy**

**Maintainance Guy**

**GUy**

**2.Sequence Diagram :**

12.get required product

10.Confirm product amount

11.Select Product

9.Check Amount

7.Display price of product

6.Check Price

5.Display the product information

4.Confirm product Avaibility of Product

3.Check Availaibility For Product

2.get product details

1.Select Product

TCVMMenu

Container

Service

Customer

Container

Product/Item Dispenser

1. **Class Diagram :**

12.get product

8.Insert amount or coin

getContainerInstane()

selectMenu()

Main()

**TCVMMenu**

**TCVMController**

Make Coffee

Make BlackCoffee

Make BlackTea

Make Tea

BLACKCOFFEE\_PRICE

COFFEE

WATER

MILK

SUGAR

containerInitializer

productRecord

BLACKTEA\_PRICE

COFFEE

WATER

MILK

SUGAR

containerInitializer

productRecord

COFFEE\_PRICE

COFFEE

WATER

MILK

SUGAR

containerInitializer

productRecord

TEA\_PRICE

TEA

WATER

MILK

SUGAR

containerInitializer

productRecord

makeDrink()

updateQuatity()

substractQuantity()

makeDrink()

updateQuatity()

substractQuantity()

makeDrink()

updateQuatity()

substractQuantity()

makeDrink()

updateQuatity()

substractQuantity()

**MakeDrinkInterface**makeDrink()

implements

implements

Reset Container

Total Sale

Refill Container

ContainerStatus

container

productRecord

container

containerInitializer

resetContainer()

prodcutTotalSale ()

refillContainer()

showContainerStatus()

BlackTeaAvailability

CoffeeAvailability

BlackCoffeeAvailability

TeaAvailability

BLACKCOFFEE\_PRICE

COFFEE

WATER

MILK

SUGAR

containerInitializer

productRecord

BLACKTEA\_PRICE

COFFEE

WATER

MILK

SUGAR

containerInitializer

productRecord

COFFEE\_PRICE

COFFEE

WATER

MILK

SUGAR

containerInitializer

productRecord

TEA\_PRICE

TEA

WATER

MILK

SUGAR

containerInitializer

productRecord

checkAaivailabilityForDrink()

substractQuantity()

checkAaivailabilityForDrink()

substractQuantity()

checkAaivailabilityForDrink()

substractQuantity()

checkAaivailabilityForDrink()

substractQuantity()

CheckAaivailabilityInterface



checkAaivailabilityForDrink()

implements

implements

implements