1. **Use Case Diagram :**

**Dispenser**

**GUy**

**User**

**GUy**

**Maintainance Guy**

**GUy**

1. **Class Diagram :**

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

**3.Sequence Diagram:**

Product

Container

Make Drink

TCVM

menu

select product

check availability

product details

product availability

display amount

Initialize container

Update container

Product Record

Drink Available

Add price in list

Add waste material in list

Operator

TCVM

menu

Container status

Container

SaleProduct

Product

check container capacity()

check container status()

check availability capacity()

available capacity()

reset container()

refill container()

total sale()

check product sale