**Buy beverage**

**Use Case:** Buy a beverage

**Summary:** The vending machine delivers a beverage after a customer selects and pays for it.

**Actors:** Customer

**Precondition:** The machine is waiting for money to be inserted.

**Description:** The machine starts in the waiting state in which it displays the message “Enter coins.” A customer inserts coins into the machine. The machine displays the total value of money entered and lights up the buttons for the items that can be purchased for the money inserted. The customer pushes a button, if the cost of the item is less than the money inserted.

**Exceptions:**

* *Canceled*: If the customer presses the cancel button before an item has been selected, the customer’s money is returned and the machine resets to the waiting state.
* *Out of stock*: If the customer presses a button for an out-of-stock item, the message “that item is out of stock” is displayed. The machine continues to accept coins or a selection.
* *Insufficient money*: If the customer presses a button for an item that costs more than the money inserted, the message “You must insert $nn.nn more for that item” is displayed, where nn.nn is the amount of additional money needed. The machine continues to accept coins or a selection.
* *No change*: If the customer has inserted enough money to buy the item but the machine cannot make the correct change, the message “Cannot make correct change” is displayed and the machine continues to accept coins or a selection.

**Postconditions:** The machine is waiting for money to be inserted.

**Perform scheduled maintenance**

**Use Case:** Perform scheduled maintenance

**Summary:** A repair technician performs the periodic service on the vending machine necessary to keep it in good working condition.

**Actors:** Repair technician

**Preconditions:** The machine is in the turn off condition before performing the maintenance operation.

**Description:** The technician performs different maintenance operations to keep the machine in good condition like cleaning the machine, arranging the items properly, check its connections, fill money in the machine etc.

**Exceptions:**

* *Power failure*: If power supply is lost while repair technician is repairing machine then he will no able to complete his work.

**Postconditions:** The machine is in the power on condition for its routine work.

**Make repairs**

**Use Case:** Make repairs

**Summary:** A repair technician performs the unexpected service on the vending machine necessary to repair a problem in its operation.

**Actors:** Repair technician

**Preconditions:** Machine needs to be in turned off condition.

**Description:** The technician performs the proper operation to make machine repaired if it accidently fails to work.

**Exceptions:**

* *Power failure*: If power supply is lost while repair technician is repairing machine then he will no able to complete his work.

**Postconditions:** Machine needs to be in turned on and should work properly.

**Load items**

**Use Case:** Load items

**Summary:** A stock clerk adds items into the vending machine to replenish its stock of beverages.

**Actors:** Stock clerk

**Preconditions:** Theitems in machine should be empty or less in quantity.

**Description:** The stock clerk is going to fill machines with items if quantity is less.

**Exceptions:**

* *Out of stock*: The items that vending machine supplies us are not available in market then the stock clerk will not able to add item into vending machine.

**Postconditions:** The machine should be full with item.