

4) Coffee Vending Machine

Coffee Vending machine is designed to dispense coffee in required quantity by collecting information such as type of coffee from the customer & estimating the price and quantity necessary for preparation of particular type of coffee.

The machine collects coin from the customer & asks for type of coffee to dispense.

Classes with attributes & functions are as follows:

Controller:

Attribute:

- id

Function:

- dispense the product
- dispense the coin to customer
- compare price of coin to that of product price
- Check availability of the product
- Update the product quantity after each dispense.

* The Vending machine must have money box, coin, Slot, display Screen & products i.e. coffee for the machine to be used.

* The user on selecting a coffee machine must be able to dispense the selected coffee to the user.

- The user shall get empty cup placed right below the filter. The user shall be able to choose his preferred beverage from the list of options.
- There must be buttons for user shall to interact with the system.
- The user shall be able to purchase one kind of available drink at a time & get back the exact change if he has put extra money. The user shall be able to quit the dispense of any beverage at any time during dispensing.
- The system shall check for properly inserted coins.
- The system shall be able to dispense coffee after a coin has been inserted.
- The system must accept coins of different amounts & the system must compare the item cost with entered coin.
- The system must check the validity of coins.
- The system shall be able to detect the low amount of ingredients & low number of cups & indicate with an indicator (Small LED).