

4. COFFEE VENDING MACHINE

Problem Statement: The coffee vending machine is basically for the customers to buy coffee by themselves without any third person being involved. A coffee vending machine sells different types of coffee such as cappuccino, latte, etc. Each type of coffee has a price associated with it and a name. A customer can buy their choice of coffee by selecting the button of their coffee and paying for the same through the coin box.

Software Requirement Specification:

- The vending machine must have a money box, coin slot, displaying screen and products i.e coffee to the user.
- The user on selecting coffee, the coffee machine must be able to dispense the selected coffee to the user.
- The user shall get an empty cup placed right below the filter. The user shall be made to choose the preferred beverage from the list of options.
- There must be buttons for the user to interact with the system.
- The user shall be able to purchase one kind of available drink at a time and get back the exact changes if he has paid extra. 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 coin insertion.
- The system must accept coins of different denominations and the system must compare the item cost with the entered coin.
- The system must check the validity of coins inserted.
- The system shall be able to detect the low amount of ingredients and low number of cups and indicate with an indicator.