4. COFFEE VENDING MACHINE

4.1 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, black coffee, cold coffee and latte. Each type of coffee has a price 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.

4.2 Software Requirement Specification

- The vending machine must have money box, coin slot, display screen and products ie coffee for the machine to be used.
- The user on selecting a coffee, the 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 (buttons)
- There must be buttons (start, pause, stop, coffee, tea, milk) for 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 put extra money. The user shall be able to quit the dispense of any beverage at any time during the dispensing.
- The system (machine) shall check for properly inserted coins
- The system shall be able to dispense coffee (or selected beverage) after a coin has been inserted.
- The system must accept coins of different amount and 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 and low number of cups and indicate with an indicator (small LED).