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 i.e coffeefor the machine to be used.
- The user on selecting a coffee ,the coffee machine must be able to dispense the selected coffeeto the user.
- The user shall get empty cup placed right below the filter.The user shall be able to choose hispreferred 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 exactchanges if he has put extra money. The user shall be able to quit the dispense of any beverageat 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 costwith 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 andindicate with an indicator(small LED).