

LAB-4

Coffee Vending Machine

Problem statement

There is a need for a machine which is automated doesn't require manual operating to dispense coffee.

The contents used should be uniform and the acceptance of payment needs to be handled. It should be extensible, reusable, and modular.

SRS

- The vending machine must have money box, coin slot, display screen and products.
- The user on selecting a coffee, machine should be able to dispense it.
- The user places empty cup below filter. He shall be able to choose his preferred beverage.
- There must be buttons for the user to interact with the system.
- User should be able to make changes by adding extra money. He should be able to quit dispensing at any time during the process.
- The system shall check for properly inserted coins.
- Coffee needs to be dispensed after a coin is inserted.

- System must accept coin of different amount and validate them.
- System shall be able to detect low amount of ingredients and low no. of cups and indicate with an LED.

252

- The vending machine must have money box, coin slot, display screen and products.
- The user can select a coffee machine should be able to dispense it.
- The user placed coin up below after he can be able to choose his preferred beverage.
- There must be provision for the user to interact with the system.
- User should be able to make changes by adding extra money. He should be able to quit whenever at any time during the process.
- The system shall check for properly inserted coin.
- Coffee needs to be dispensed after a coin is inserted.

Coffee Vending Machine

Class Diagram

