COFFEE VENDING MACHINE

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6th-A

PROBLEM STATEMENT

Coffee vending machine helps minimize human-contact, reduce time consumption and effort, and provides various options to a buyer. As coffee (and tea) are essential part of a lot of people’s lives, it is an unknown necessity.

The vending machine must be able to -

1. Accept currency in the form of bills and coins from the buyer.
2. Give buyer details on items, like cost, count, etc.
3. Allow buyer to select the item.
4. Allow buyer to take refund within 10 seconds of placing of order.
5. Return the selected item and change, if any, to buyer.
6. Allow seller to refill the vending machine and collect the money.
7. Allow reset operation by supplier/operator, if required.

SRS DOCUMENT

1. INTRODUCTION
   1. PURPOSE OF THE REQUIREMENTS DOCUMENT

The requirements document help organise the requirements of the system to be built. The document will help organise and prioritise the requirements. This document helps recognise usage, functions and requirements of the coffee vending machine.

* 1. SCOPE OF THE PROJECT

The purpose of the “Coffee Vending Machine” software is to help facilitate selling and buying of various kinds of coffee as well as tea. The machine is useful for offices, institutions and other places, where there is a need to reduce the time spent in going out and buying a coffee. Also, it is useful in places where different kinds of tea and coffee are appreciated.

* 1. DEFINITIONS, ACRONYMS AND ABBREVIATIONS

Vending Machine – a machine that dispenses small items such as beverages, foods etc when a coin or bill is inserted.

* 1. REFERENCES

N/A

* 1. OVERVIEW OF REMAINDER DOCUMENT

The remainder of document gives an overview of requirements for the “Coffee Vending Machine”.

1. GENERAL DESCRIPTION
   1. PRODUCT PERSPECTIVE

The machine can be used by any kind of institution, office or other industrial places, where a lot of employees travel a good distance or spend too much time to get coffee.

* 1. PRODUCT FUNCTIONS
* Add a product
* Change price of product
* Delete product
* Change quantity of product
* Take money from buyer
* Give selected item to buyer
* Give change, if any, to buyer
* Give refund, if order cancelled within 10 seconds
* Reset the machine
  1. USER CHARACTERSTICS
* Buyer-

The buyer must have the cash in hand, for the product.

* Seller-

The seller must have the items in stock, and must place the vending machine where it is easy for everyone to access.

2.4 GENERAL CONSTRAINTS

The machine should update quantity of products dynamically and fast. The money in the machine must be only accessible through a code and a card.

* 1. ASSUMPTIONS AND DEPENDENCIES
* The seller has a good stock of products
* The buyers have cash with them.

1. SPECIFIC REQUIREMENTS

3.1 FUNCTIONAL REQUIRMENTS

* Reports must be generated daily
* Alerts must be displayed when a product is low on quantity. Also, alerts must be sent to seller.
* Every purchase detail must be sent to seller on their number or email, at the end of day.
* The seller must be able to put update the product.
  1. NON-FUNCTIONAL REQUIRMENTS
* The system must be reliable
* The money must be kept safe and secure.
* The operations must be performed fast.
* The reset operation must never fail.

1. APPENDICES

SRS: Software Requirement Specification

CVM: Coffee Vending Machine

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