

Git Repository: <https://gitlab.com/juanpablocorreatarazona/vending-machine>

Requirements

Functional Requirements

The system must:

1. Sell products to clients.
2. Verify credentials.
3. Verify stock.
4. Notify low stock.
5. Verify validity of money

Non-Functional Requirements

The system should:

1. Operate 24/7.
2. Have an user-friendly interface.

Use Cases

- 1.

Title: Buy a product

Primary Actor: Client

Success Scenario:

1. Client Insert Money and specify product.
2. System verify validity of money.
3. System verify the amount of money is sufficient.
4. System gives the product.
5. Client remove the package from system.

Extensions:

2a. The money provide is invalid.

System return the money.

2b. The amount of money is insufficient.

System notify client.

Client provide more money. Continue at step 3.

2c. the amount of money is greater than necessary.

System return the change to client. Continue at step 3.

2d. The product is out of stock.

System notify the client and return the money.

2.

Title: Restock the machine

Primary Actor: Administrator

Success Scenario:

1. Administrator open the machine using a special key.
 2. Administrator enter system settings using credentials.
 3. System verifies credentials.
 4. Administrator restock the product.
 5. Administrator update the available stock in the system.
 6. Administrator close the machine.
- 3.

Title: Change machine settings

Primary Actor: Administrator

Success Scenario:

1. Administrator enters system settings with credentials.
 2. System verifies credentials.
 3. Administrator update settings.
 4. Close system.
- 4.

Title: Notify low stock

Primary Actor: System

Success Scenario:

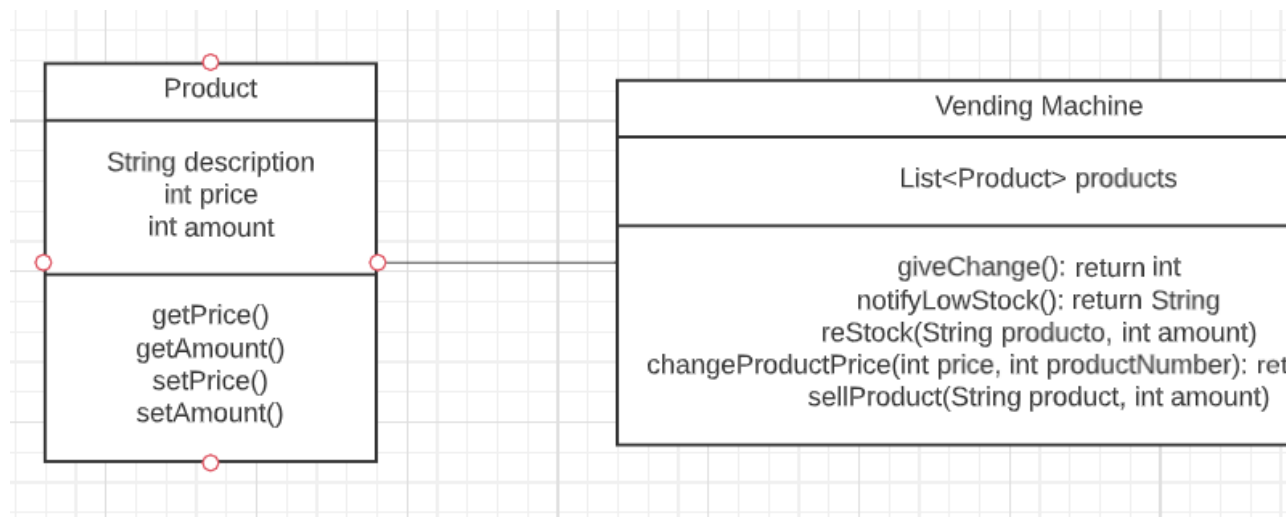
1. Product reach a preset amount marked as low.
2. System sends notification to administrator.

| | |
|-------------|--------|
| Client | |
| Buy product | System |

CRC cards

| | |
|------------------|-----------------|
| System | |
| Sell product | Client, Product |
| Notify low stock | Administrator |

| | |
|-----------------|--------|
| Administrator | |
| Change Settings | System |
| Restock | System |



Diagram