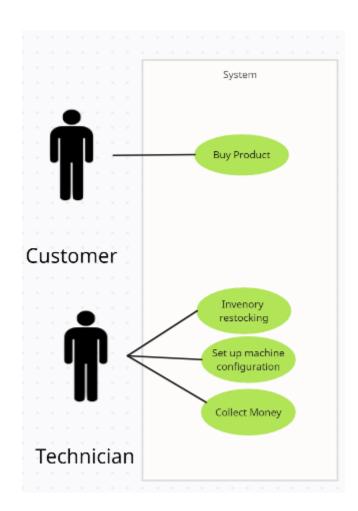
Public Vending Machine Analysis and Design

Requirements

- A customer will be able to select a product to buy. (F)
- A customer will be able to insert the payment to the machine (F)
- Protection to prevent thefts. (NF)
- Store until 10 pieces of the same product. (NF)
- The machine will deliver the product when the payment is accepted (F)
- The machine will print the information of the process (F)
- Have 6 rows of products, and in each row had 5 types of products (NF)
- Works 24/7 (NF)
- The technician will be able to sets up the machine configuration(F)
- The technician will be able to restock the missing products(F)
- The technician will be able to collect the money from the machine(F)
- Accept bills from 20 dollars and below. (NF)
- Have a size of 40.709 in x 29.528 in x 74.803 in. (NF)

Uses Cases

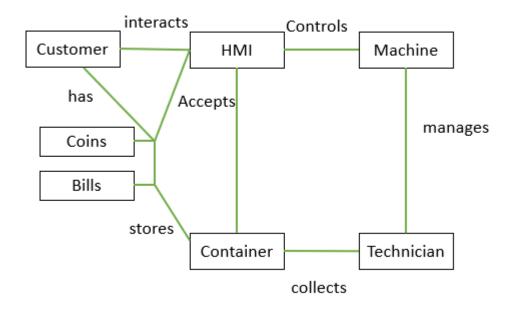


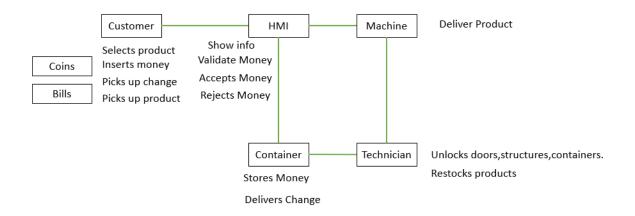
• Title: Buy Product

• Primary Actor: Customer

- Success Scenario:
 - 1. The customer selects with the keyboard the product he wants.
 - 2. The LCD Screen shows the name of the product and the price.
 - 3. The customer inserts the money into the coin or bills acceptors.
 - 4. The machine delivers the product and puts a new one ready to be delivered.
 - 5. If necessary, the machine deliver the change.
 - 6. The customer picks up the product and ifs necessary, also his change.
- Title: Inventory RestockingPrimary Actor: Technician
- Success Scenario:
 - 1. The technician opens the door of the vending machine.
 - 2. The technician takes out the rows structures where the products are.
 - 3. The technician restocks the missing products with new ones.
 - 4. The technician puts back the row structures.
 - 5. The technician closes the door.
- Title: Collect Money
- Primary Actor: Technician
- Success Scenario:
 - 1. The technician opens the door of the vending machine.
 - 2. The technician unlocks the containers where the coins and bills are stored.
 - 3. The technician collects all the bills.
 - 4. The technician collects the coins, leaving some coins for change.
 - 5. The technician put back the containers and locks them.
 - 6. The technician closes the door.
- **Title:** Set up machine configuration
- Primary Actor: Technician
- Success Scenario:
 - 1. The technician opens the door of the vending machine.
 - 2. The technician connects his computer to the logic board of the vending machine
 - 3. The technician config the machine set up.
 - 4. The technician uploads the configuration.
 - 5. The technician disconnects his computer from the logic board of the vending machine.
 - 6. The technician closes the door.

Identify Objects Classes and relationships in the system.





Class Diagrams

