**Document 02 – User Stories**

CS 4321 – Fall 2021

This document is contained in your GitHub repository in a folder named *docs*.

| | Group | 1 | | --- | --- | | Group Member Names |  |
| --- | --- | --- | --- | --- |
|  | | 1. | Greggory Buehring | | --- | --- | | 2. | Sean Vickers Jr. | | | 3. | Alex Acorn | | --- | --- | | 4. | Nathan Bailey | | 5. | David Truong | |

**User Story Priority**

[Provide a list of 10 User Stories ordered by priority. Once develop begins, you will work on these first]

| **Priority** | **Num** | **Title** |
| --- | --- | --- |
| 1 | 5 | Vending Machine Item Attributes |
| 2 | 4 | Vending Machine Storage |
| 3 | 20 | Adding Item to system (Manager) |
| 4 | 18 | Vending Machine Item Restock (Technician) |
| 5 | 10 | Vending Machine Coin Restock |
| 6 | 1 | Customer Price Check Item |
| 7 | 22 | Editing items in the system |
| 8 | 11 | Product Description |
| 9 | 3 | Customer Payment Options |
| 10 | 21 | Removing Items from the system |

**User Story Summary**

[Provide a list of all User Stories]

| **Num** | **Title** |
| --- | --- |
| 1 | Customer Cash |
| 2 | Manager Machine Reports |
| 3 | Customer Payment Options |
| 4 | Vending Machine Storage |
| 5 | Vending Machine Item Attributes |
| 6 | Location Report |
| 7 | Vending Machine Item Types |
| 8 | Vending Machine Types |
| 9 | Expired Inventory Report |
| 10 | Vending Machine Coin Restock |
| 11 | Product Description |
| 12 | Customer Correct Change |
| 13 | Set Temperature |
| 14 | Operational |
| 15 | Technician Vending Machine Coin Check |
| 16 | Product Report |
| 17 | Detailed Machine Report |
| 18 | Vending Machine Item Restock |
| 19 | Removing Expired Goods |
| 20 | Adding New Items to Vending Machine |
| 21 | Removing Items from Vending Machine |
| 22 | Editing Items in Vending Machine |
| 23 | Dry-Goods Report |
| 24 | Refrigerated-Goods Report |
| 25 | Manufacturer Report |
| 26 | Company Report |

**User Story 1 – *Customer Price Check Item***

As a customer, I want to be able to see how much each product is in the vending machine so that I can make sure I can afford the product.

Notes:

The price of the item selected should be displayed to the customer.

**User Story 2 – *Manager Machine Reports***

As a manager, I want to be able to generate vending machine reports in order to see how well products have been selling at particular vending machines.

Notes:

The machine report should have the total value of all products sold, the total value of remaining inventory in the machine, and the total value of product sold broken down into both cash sales and credit sales.

**User Story 3 – *Customer Payment Options***

As a customer, I want to be able to choose my payment option in order to be able to use either cash or card to pay.

Notes:

In the program, the card option assumes the card goes through. The cash calculation should allow the user to use dollars, quarters, dimes, and nickels.

**User Story 4 – *Vending Machine Storage***

As a manager, I want my vending machines to be able to store items in order to sell them to the customer.

Notes:

The vending machine stores items in a 3D-array.

**User Story 5 – *Vending Machine Item Attributes***

As a technician, I want my vending machine items to have a name, manufacturer, and expiration date so that they are loaded into the vending machine in the proper place.

Notes:

The vending machine stores items in one spot of the 3D-array. Each item should be loaded with the closest expiration date at the front.

**User Story 6 – Location Report**

As a manager, I want to be able to be able to see all the vending machines at a particular location

Notes :

For a specified location: A Machine Report for each machine at the location and Totals of all values across all Machine Reports

**User Story 7 – *Vending Machine Item Types***

As a manager, I want my vending machine items to be separated into dry goods or refrigerated items so that they are loaded into the correct vending machines.

Notes:

Refrigerated and non-refrigerated items cannot be placed into the same vending machine.

**User Story 8 – *Vending Machine Types***

As a technician, I want my vending machines to be either refrigerated or not refrigerated so that I can store both refrigerated and dry goods.

Notes:

Refrigerated and non-refrigerated items cannot be placed into the same vending machine.

**User Story 9 – Expired Inventory Report**

As a manager, I want to be able to generate a list of all the expired products in all of my vending machines so that there is a way for me to keep track of these items.

**User Story 10 – Vending Machine Coin Restock**

As a technician, I want to be able to restock the coins so that proper change can be given to customers.

**User Story 11 – Product Description**

As a manager, I want to be able to provide a description of the products I am putting in my vending machines so that I can sort products into different types of vending machines and I can pull up certain information about each product in the future.

Notes:

We will need a product class for this where we can store information like: the name, the price, the manufacturer, the expiration date, and if refrigerated, the ideal temperature.

**User Story 12 – *Customer Correct Change***

As a customer, I want to be able to collect the correct amount of change in the instance where I give the vending machine more than it needs for the product I am purchasing so that I am not ripped off .

Notes:

The machine should give proper change if the customer is paying cash.

In the instance the machine does not have enough change to give to the customer, their cash is returned and nothing is vended from the machine

**User Story 13 – *Set Temperature***

As a technician, I want to be able to set a minimum and maximum temperature in refrigerated vending machines so that the ideal temperature for all the products stored within it can be met.

**User Story 14 – Operational**

As a technician, I want to ensure that the vending machine is operational and is not losing out on business.

**User Story 15 – Technician Vending Machine Coin Check**

As a technician, I want to be able to see the various amounts of each type of money a vending machine has stored so that I can know when to add money from a specific vending machine.

**User Story 16 – Product Report**

As a manager, I want to be able to see detailed information about all machines that sell a specified product so that I can see how the product is selling and if it needs to be restocked.

Notes:

Machine 1, Location - Total value sold of this product in this machine, total value of remaining inventory of this product in this machine.

Machine 2, Location – …

…

Total value of this product sold across all vending machines

Total value of remaining inventory in the machine.

**User Story 17 – Detailed machine report**

As a manager, I want to be able to see a more detailed machine report so that I can see all of the products and associated sales I have in a specified vending machine so that I can more easily see what products are doing well and where.

Notes:

Product 1 – Total sales, Value of remaining inventory

Product 2 – …

…

Followed by a Machine Report (*i.e.* the totals)

**User Story 18 – Vending Machine Item Restock (Technician)**

As a technician, I want to be able to restock items so that the vending machine can continue to sell products to customers.

**User Story 19 – Removing Expired Goods**

As a technician, I want to be able to remove expired products so that customers are not being sold expired products.

**User Story 20 – Adding Items to the system (Manager)**

As a manager, I want to be able to add products to the vending machine system so that new types of products can be purchased by customers.

**User Story 21 – Removing Items from the system**

As a manager, I want to be able to remove products from the vending machine system so that products that do not sell well are no longer sold.

**User Story 22 – Editing Items in the system**

As a manager, I want to be able to edit products from the vending machine system so that miscellaneous typos or errors about a product can be corrected.

**User Story 23 – Dry Goods Report**

As a manager, I want to be able to get a report of all of the dry goods in the various vending machines so that I can see how well these products are doing.

Notes:

Product 1 – Total Sales, Total value of inventory

Product 2 – …

…

Totals

**User Story 24 – Refrigerated Goods Report**

As a manager, I want to be able to get a report of all of the refrigerated goods in the various vending machines so that I can see how well these products are doing.

Notes:

Product 1 – Total Sales, Total value of inventory

Product 2 – …

…

Totals

**User Story 25 – Manufacturer Report**

As a manager, I want to be able to get a report of all of the every product a specified manufacturer provides so that I can more easily see which products I should give more priority to.

Notes:

Product 1 – Total Sales, Total value of inventory across all machines

Product 2 – …

…

Totals

**User Story 26 – Company Report**

As a manager, I want to be able to get a report of a location report of every location and the total value of all the machines in the company so that I can see how every location is doing and how the company as a whole is doing.

Notes:

A Location Report for each location

Totals of all values across all Location Reports