Ice Cream Inventory Management

**Use Case Specification Document**

**UC07 - Update Ice Cream Inventory, Price, and Truck Inventory**

**Version 1.3**

Revision History

|  |  |  |  |
| --- | --- | --- | --- |
| Version | Date | Author | Description |
| 1.0 | 3/10/16 | Brandon Manni | Creation of Use Case Specification Document. |
| 1.1 | 3/13/16 | Brandon Manni | Added to each section. |
| 1.2 | 3/13/16 | Brandon Manni | Added Swimlane. |
| 1.2.1 | 3/13/16 | Brandon Manni | Signed and reviewed. |
| 1.3 | 4/20/16 | Brandon Manni | Added new Swimlane. Signed and reviewed. |
|  |  |  |  |

Table of Contents

1. Introduction 4
2. Use Case Information 4
   1. Actors 4
   2. Use Case Interaction 4
3. Trigger 4
4. Pre-Conditions 4
5. Post-Conditions 4
6. Use Case Swimlane (Activity Diagram) 5
7. Main Flows of Events (Happy Path) 5-6
8. Alternate/Exception Flow of Events 6
9. Assumption/Business Rules 6
10. Review and Signoff 6
11. **Introduction**

**The Update Inventory, Price, and Truck Inventory use case allows the user to edit the data being stored in the database. Example, if the user submitted a file with the wrong data, inventory was counted wrong. The purpose is to allow the user to fix mistakes they may have entered.**

1. **Use Case Information**
   1. **Actors**

|  |  |  |
| --- | --- | --- |
| ****Actor**** | ****Role**** | ****Description**** |
| **User** | **Primary** | **Will select an option and make the edit.** |
| **System** | **Secondary** | **Will find the item to edit and make sure the edit is valid.** |

* 1. **Use Case Interaction**

**Predecessor Use Cases:**

**Data File Processing**

1. **Triggers**

**The Update use case is triggered when the user selects an option out of the items to update. The system will then make sure that the option selected is valid and will make sure that the edit is valid.**

1. **Pre-Conditions**

**Data must be successfully accepted into the program.**

**Option selected must be in the list of options.**

**Edit must be a valid edit.**

1. **Post-Conditions**

**Option selected will be editable by the user.**

**Edit made by the user will overwrite previous data.**

1. **Use Case Swimlane/Activity Diagram**



1. **Main Flows of Events/Happy Diagram**
   1. **– User selects option to update.**

**1.2.1 – Option is to update Ice Cream Price.**

**1.3 – System retrieves data from Ice Cream database.**

**1.6 – User edits data.**

**1.7.1 – Edit is valid.**

**1.7.2 – System saves edit to data.**

**1.2.2 – Option is to update Ice Cream Inventory.**

**1.4 – System retrieves data from Inventory database.**

**1.6 – User edits data.**

**1.7.1 – Edit is valid.**

**1.7.2 – System saves edit to data.**

**1.2.3 – Option is to update Truck Inventory.**

**1.5 – System retrieves data from Truck database.**

**1.6 – User edits data.**

**1.7.1 – Edit is valid.**

**1.7.2 – System saves edit to data.**

1. **Exception Flow**
   1. **– User selects option to update.**

**1.2.1 – Option is not to update Ice Cream Price.**

**1.2.2 – Option is not to update Ice Cream Inventory.**

**1.2.3 – Option is not to update Truck Inventory.**

* + 1. **– System displays error.**
  1. **– User selects option to update.**

**1.2.1 – Option is to update Ice Cream Price.**

**1.3 – System retrieves data from Ice Cream database.**

**1.6 – User edits data.**

**1.7.1 – Edit is not valid.**

**1.7.3 – System displays error.**

**1.2.2 – Option is to update Ice Cream Inventory.**

**1.4 – System retrieves data from Inventory database.**

**1.6 – User edits data.**

**1.7.1 – Edit is not valid.**

**1.7.3 – System displays error.**

**1.2.3 – Option is to update Truck Inventory.**

**1.5 – System retrieves data from Truck database.**

**1.6 – User edits data.**

**1.7.1 – Edit is not valid.**

**1.7.3 – System displays error.**

1. **Business Rules/Assumptions (Non-Functional Requirements)**
2. **Must be able to access local database.**
3. **Must have an internet connection.**
4. **Must have access to said connection (Firewalls, Anti-Virus, etc).**
5. **Review and Signoff**

|  |  |  |  |
| --- | --- | --- | --- |
| ****Name**** | ****Role**** | ****Electronic Signature**** | ****Date**** |
| ****Brandon Manni**** | **Design/Functionality** | **Brandon Manni** | **4/20/16** |
| ****Spencer Vierk**** | **Programmer** | **Spencer Vierk** | **4/20/16** |