Ice Cream Inventory Management

**Use Case Specification Document**

**UC05 - Automatic Order**

**Version 1.2**

Revision History

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| --- | --- | --- | --- |
| 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. Swimlane and flows. |
| 1.1.1 | 3/13/16 | Brandon Manni | Signed and reviewed. |
| 1.1.2 | 3/14/16 | Brandon Manni | Fixed Trigger and Swimlane. Signed. |
| 1.2 | 4/20/16 | Brandon Manni | Added new Swimlane. Signed and reviewed. |
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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
8. Alternate/Exception Flow of Events 5
9. Assumption/Business Rules 6
10. Review and Signoff 6
11. **Introduction**

**The Automatic Order use case allows the user to quickly generate an order to fill up inventory. The system will check the current inventory and count up what products are needed and how much of each product is needed.**

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

|  |  |  |
| --- | --- | --- |
| ****Actor**** | ****Role**** | ****Description**** |
| **User** | **Primary** | **Will input the data.** |
| **System** | **Secondary** | **Will accept the data and generate the order.** |

* 1. **Use Case Interaction**

**Predecessor Use Cases:**

**Data File Processing**

**Successor Use Cases:**

**Text Message Notifications**

1. **Triggers**

**The Automatic Order will be triggered when data is processed at the end of the day. This is when inventory is most up to date.**

1. **Pre-Conditions**

**Database must contain inventory levels. It uses current levels, so they should be up to date.**

**New product must have above a certain number of requests to be added to the order.**

1. **Post-Conditions**

**Auto Order will be generated and placed in program directory.**

**Items with enough requests will be added to the order.**

**A text message will be sent if a new item is added to the order.**

**A text message will be sent once the automatic order has been generated.**

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



1. **Main Flows of Events/Happy Diagram**
   1. **– User enters data.**
   2. **– System processes data. (UC09)**

**1.3.1 – System checks current inventory.**

**1.3.2 – System calculates how much of each product is needed.**

**1.3.3 – System adds products and quantities needed to order.**

**1.4.1 – System generates complete order.**

**1.4.2 – System saves final order as file in directory.**

**1.5.1 – System displays that order has been generated.**

**1.5.2 – System sends text that order has been generated. (UC03)**

1. **Exception Flow**

**This Use Case doesn’t have an exception flow because it requires that current inventory is already in the system. The Data File Processing (UC09) ensures that the data is correct before the system can accept it. Therefore, the data in this use case is correct.**

1. **Business Rules/Assumptions (Non-Functional Requirements)**
2. **Must be using up to date inventory for automatic order.**
3. **Must input phone number in the program.**
4. **Must be able to receive text messages.**
5. **Must have an internet connection.**
6. **The software must have access to said connection (Firewalls, Anti-Virus, etc).**
7. **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** |