Ice Cream Inventory Management

**Use Case Specification Document**

**UC01 - Customer Request**

**Version 1.3**

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 | 3/11/16 | Brandon Manni | Added to each section. |
| 1.2 | 3/13/16 | Brandon Manni | Added Swimlane and flows. |
| 1.2.1 | 3/13/16 | Brandon Manni | Added Introduction. |
| 1.2.2 | 3/13/16 | Brandon Manni | Signed and reviewed. |
| 1.3 | 4/20/16 | Brandon Manni | Updated Swimlane. Signed and reviewed. |

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11. **Introduction**

**The Customer Request allows customers to request new products. Those requests will be recorded and once enough requests for a product are received, it will be added to the automatic order. The purpose is for the business to maximize profits. New requested products will be ordered.**

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

|  |  |  |
| --- | --- | --- |
| ****Actor**** | ****Role**** | ****Description**** |
| ****User**** | **Secondary** | **Will input data into the program.** |
| ****System**** | **Secondary** | **Will receive data and if enough customers request and ice cream, it will be added to the automatic order.** |

* 1. **Use Case Interaction**

**Predecessor Use Cases:**

**Data File Processing**

**Successor Use Cases:**

**Automatic Ordering**

1. **Triggers**

**The Customer Request use case is triggered when the data is processed into the program. It will check if there are requests for an ice cream and if there are enough, it will add that ice cream to the automatic order.**

1. **Pre-Conditions**

**­Data in file must contain number of requests per product.**

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

**Number of requests must be above the requirement to be added to the automatic order.**

1. **Post-Conditions**

**Requested product is added to the automatic order.**

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



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

**1.2.1 – Add products to automatic order.**

**1.2.2 – Display that product has been added to auto order.**

**1.2.3 – Send text message that product has been added. (UC03)**

1. **Exception Flow**
   1. **– User enters data.**
      1. **– System processes data.**
      2. **– Current product does not have enough requests.**

**1.6 – Store new requests with overall requests for product.**

1. **Business Rules/Assumptions (Non-Functional Requirements)**
2. **Drivers must be keeping track of requests.**
3. **User must be including requests into data inputted into the program.**
4. **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** |