Ice Cream Inventory Management

**Use Case Specification Document**

**UC03 - Text Message Notifications**

**Version 1.4**

Revision History

|  |  |  |  |
| --- | --- | --- | --- |
| Version | Date | Author | Description |
| 1.0 | 3/2/16 | Brandon Manni | Creation of Use Case Specification Document. |
| 1.1 | 3/2/16 | Team | Everybody reviewed and signed the document. |
| 1.2 | 3/10/16 | Brandon Manni | Fixed typos. Fixed 2.2 to reflect new Use Case List. |
| 1.3 | 3/10/16 | Brandon Manni | Fixed 3 to show example conditions in which the use case is triggered. |
| 1.3.1 | 3/12/16 | Brandon Manni | Modified triggers. |
| 1.3.2 | 3/13/16 | Brandon Manni | Modified triggers, added updated Swimlane. Signed and reviewed. |
| 1.4 | 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. Triggers 4
4. Pre-Conditions 4
5. Post-Conditions 5
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 Text Message Notification use case allows text messages to be sent to a specified phone number. A message is sent when a certain action happens. Any individual notifications can be turned on/off. The purpose of this use case is for someone outside of work receive notifications about things happening in the software, for example, the owner of the company can receive notifications while away from work.**

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

|  |  |  |
| --- | --- | --- |
| ****Actor**** | ****Role**** | ****Description**** |
| **User** | **Main** | **Will input data into the program.** |
| **System** | **Secondary** | **Will receive data and check if flags are met. Will send text messages.** |
| **Message Receiver** | **Secondary** | **Inputs phone number. Will receive text messages when flags are met.** |

* 1. **Use Case Interaction**

**Predecessor Use Cases:**

**Data File Processing**

**Customer Request**

**Automatic Ordering**

1. **Triggers**

**The Text Message Notifications are triggered when certain flags are met. There will be several flags which send notifications. The messages will only be sent if they are turned on. If a notification is turned off, the message will not be sent, even if that flag is met.**

**Examples:**

* **Daily truck inventory is reset. - Object added to automatic order.**
* **Daily inventory is calculated. - Automatic order has been generated.**

1. **Pre-Conditions**

Notifications must be turned on.

Phone Number is valid and in service.

Notifications conditions are met for the notifications that are turned on.

1. **Post-Conditions**

**Creates a text message to be sent, depending on the condition met.**

**Sends the text message to the given phone number.**

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



1. **Main Flows of Events/Happy Flow**

**1.1 – User enters data.**

**1.2 – System processes data. (UC09)**

**1.3.1 – System checks conditions in which a text will be sent.**

**1.3.2 – Daily Truck Inventory is Reset.**

**1.4.1 – Notification for this condition is on.**

**1.4.2 – Message is sent.**

**1.5.1 – Number is correct and active.**

**1.5.2 – Message is received.**

**1.3.3 – Daily Inventory is Reset.**

**1.4.1 – Notification for this condition is on.**

**1.4.2 – Message is sent.**

**1.5.1 – Number is correct and active.**

**1.5.2 – Message is received.**

**1.3.4 – Object Added to Automatic Order**

**1.4.1 – Notification for this condition is on.**

**1.4.2 – Message is sent.**

**1.5.1 – Number is correct and active.**

**1.5.2 – Message is received.**

**1.3.5 – Automatic Order is Generated.**

**1.4.1 – Notification for this condition is on.**

**1.4.2 – Message is sent.**

**1.5.1 – Number is correct and active.**

**1.5.2 – Message is received.**

1. **Exception Flow**

**1.1 – User enters data.**

**1.2 – System processes data. (UC09)**

**1.3.1 – System checks conditions in which a text will be sent.**

**1.4.1 – Notifications for certain condition is not on.**

**1.4.3 – Message is not sent.**

**1.5.1 – Number is not correct or active.**

**1.5.3 – Message is not received.**

1. **Business Rules/Assumptions (Non-Functional Requirements)**
2. **Must have a working phone number.**
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** | **April 20, 2016** |
| ****Spencer Vierk**** | **Programmer** | **Spencer Vierk** | **April 20, 2016** |