Ice Cream Inventory Management

**Use Case Specification Document**

**UC08 - Assign Truck to Route**

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

**The Assign Truck to Route use case allows trucks to be assigned to new routes. The purpose is to allow for flexibility. Different trucks can take different routes depending on the circumstances. For example, maybe a driver can’t come in for a day, so a different truck can pick up the unoccupied route.**

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

|  |  |  |
| --- | --- | --- |
| ****Actor**** | ****Role**** | ****Description**** |
| **User** | **Primary** | **Assigns the truck to the route.** |
| **System** | **Secondary** | **Will check if truck is valid and assign it.** |

* 1. **Use Case Interaction**

**Predecessor Use Cases:**

**Data File Processing**

1. **Triggers**

**The Assign Truck to Route use case is triggered when the user asks to assign the truck. It will be an option in the menu.**

1. **Pre-Conditions**

**Truck must exist. Route must exist.**

1. **Post-Conditions**

**Truck will be assigned to given Route.**

**Sales from the truck will count for the new route.**

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



1. **Main Flows of Events/Happy Diagram**
   1. **– User selects option to assign truck to route.**

**1.2.1 – System retrieves data from Route database.**

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

**1.3 – User selects truck and route.**

**1.4.1 – Truck is valid.**

**1.4.2 – Route is valid.**

**1.5 – System assigns Truck to Route.**

1. **Exception Flow**
   1. **– User selects option to assign truck to route.**

**1.2.1 – System retrieves data from Route database.**

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

**1.3 – User selects truck and route.**

**1.4.1 – Truck is invalid.**

**1.4.3 – System displays error.**

**1.4.2 – Route is invalid.**

**1.4.3 – System displays error.**

1. **Business Rules/Assumptions (Non-Functional Requirements)**
2. **Must be able to access a local database.**
3. **Must have an internet connection.**
4. **System 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** |