Ice Cream Inventory Management

**Use Case Specification Document**

**UC02 - Product and Driver Sales Tracking**

**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 part. |
| 1.2 | 3/13/16 | Brandon Manni | Added 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 Product and Driver Sales Tracking is a way to view which products have been selling the most and which drivers have been performing the best overall and over a time period. The purpose is to be able to analyze the data and make decisions that can benefit the company financially. If a product is selling more than others, the business can make the decision to buy more of that product over others that might not be selling as well.**

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

|  |  |  |
| --- | --- | --- |
| ****Actor**** | ****Role**** | ****Description**** |
| **User** | **Primary** | **Inputs data into the program.** |
| **System** | **Secondary** | **Accept, sorts, and stores data.** |

* 1. **Use Case Interaction**

**Predecessor Use Cases:**

**Data File Processing**

**Successor Use Cases:**

**Financial Accounting Service**

1. **Triggers**

**The Product and Driver Sales Tracking use case is triggered when data in inputted into the program. The data will be organized and stored by date. Data will be stored in a local database.**

1. **Pre-Conditions**

**Data must be accepted by the program.**

**The data must contain product and driver info, or a way to identify them.**

1. **Post-Conditions**

**Data will be stored in a data base.**

**Data will be separated by date and will be viewable after processing.**

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



1. **Main Flows of Events/Happy Diagram**
   1. **– User records product and driver numbers with data.**
   2. **– User enters data.**
   3. **– System accepts data.**
   4. **– System stores data in database.**
   5. **– Product and Driver sales are sorted by day.**

**1.6.1 – User retrieves sales data.**

**1.6.2 – System asks for a time period.**

**1.6.3 – User enters time period.**

**1.6.4 – Time period is valid.**

**1.6.5 – The data for the time period exists.**

**1.7 – System displays product and driver sales data.**

1. **Exception Flow**

**1.1 – User records product and driver numbers with data.**

**1.2 – User enters data.**

**1.3 – System accepts data.**

**1.4 – System stores data in database.**

**1.5 – Product and Driver sales are sorted by day.**

**1.6.1 – User retrieves sales data.**

**1.6.2 – System asks for a time period.**

**1.6.3 – User enters a time period.**

**1.6.4 – Time period is not valid.**

**1.8 – Display Error.**

**1.6.5 – Data for time period does not exist.**

**1.8 – Display Error.**

1. **Business Rules/Assumptions (Non-Functional Requirements)**
2. **Data must include a way to identify products and drivers.**
3. **Data must include dates.**
4. **Must be able to store a local database.**
5. **Must have an internet connection.**
6. **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** | **3/1/3/16** |
| ****Spencer Vierk**** | **Programmer** | **Spencer Vierk** | **3/13/16** |