Ice Cream Inventory Management

**Use Case Specification Document**

**UC04 - Financial Accounting Service**

**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 more to each section. |
| 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 Financial Accounting Service allows the user to retrieve revenue and profits overall and over a specific time period. The purpose is for the business to be able to see current financial status of the company. If the company is doing well, they might make the decision to expand or buy more trucks.**

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

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

* 1. **Use Case Interaction**

**Predecessor Use Cases:**

**Data File Processing**

1. **Triggers**

**The Financial Accounting Service is triggered when the user asks for the revenue and/or profit. The system will ask for a time period and the user will enter a starting and ending date.**

1. **Pre-Conditions**

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

**The data must contain product cost and sale prices.**

1. **Post-Conditions**

**Data will be stored in a database.**

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

**Revenue and profits will be stored overall and by time period.**

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



1. **Main Flows of Events/Happy Diagram**
   1. **– User records product costs and sale prices.**
   2. **– User enters data.**
   3. **– System processes data. (UC09)**
   4. **– System stores data in database.**
   5. **– Product costs and sales prices are stores in database.**

**1.6.1 – User retrieves Revenue and/or Profit.**

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

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

**1.6.4 – Time period is valid.**

**1.6.5 – Data for time period exists.**

**1.7 – Display Revenue and/or Profit.**

1. **Exception Flow**
   1. **– Use records product costs and sale prices.**
   2. **– User enters data.**
   3. **– System processes data. (UC09)**
   4. **– System stores data in database.**
   5. **– Product costs and sales prices are stored in database.**

**1.6.1 – User retrieves Revenue and/or Profit.**

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

**1.6.3 – User enters 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 product cost and sale prices.**
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** | **4/20/16** |
| ****Spencer Vierk**** | **Programmer** | **Spencer Vierk** | **4/20/16** |