Ice Cream Inventory Management

**Use Case Specification Document**

**UC09 - Data File Processing**

**Version 1.2**

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 | 3/14/16 | Brandon Manni | Added to each section. |
| 1.1.1 | 3/14/16 | Brandon Manni | Signed and reviewed. |
| 1.2 | 4/20/16 | Brandon Manni | Added new Swimlane. Signed and reviewed. |
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11. **Introduction**

**The Data File Processing use case allows the user to input multiple data files into a directory which will then be pulled into the program. The purpose is to allow a fast way for the user to input data into the program. The system will check the files before saving them to the database.**

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

|  |  |  |
| --- | --- | --- |
| ****Actor**** | ****Role**** | ****Description**** |
| **User** | **Primary** | **Will put the data file in the directory.** |
| **System** | **Secondary** | **Will accept the file and make sure all the data is correct before storing it in the database.** |

* 1. **Use Case Interaction**

**Successor Use Cases:**

**Customer Request Automatic Ordering**

**Product and Driver Sales Tracking Display Inv., Trucks, Sales per Truck and Route**

**Text Message Notifications Update Ice Cream Inventory, Price, and Truck Inv.**

**Financial Accounting Service Assign Truck to Route**

1. **Triggers**

**The Data File Processing use case is triggered when the user places a data file in the software’s directory. Upon opening of the program, the user can select to upload new files.**

1. **Pre-Conditions**

**Data file must be a .txt file and in correct sequence.**

**Data file must contain all data needed, and data must be valid.**

**Data file must contain correct number of entries through one or more files.**

1. **Post-Conditions**

**Data file will be processed and stored in database.**

**Text message will be sent that data has been processed.**

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



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

**1.1.1 – User enters data into files.**

**1.1.2 – User places data files in directory.**

**1.1.3 – User selects file to upload.**

**1.2.1 – Data file is correct type.**

**1.2.2 – Data file is correct in sequence.**

**1.2.3 – Data file contains all data needed.**

**1.2.4 – Data in file is valid.**

**1.2.5 – Data file contains expected number of entries.**

**1.3 – System processes data.**

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

**1.5.1 – System notifies user that data has been processed.**

**1.5.2 – System sends text message that data has been processed. (UC03)**

1. **Exception Flow**

**1.1.1 – User enters data into files.**

**1.1.2 – User places data files in directory.**

**1.1.3 – User selects file to upload.**

**1.2.1 – Data file is not correct type.**

**1.8 – System displays error.**

**1.2.2 – Data file is not in correct sequence.**

**1.8 – System displays error.**

**1.2.3 – Data file does not contain all data needed.**

**1.8 – System displays error.**

**1.2.4 – Data in data file is not valid.**

**1.8 – System displays error.**

**1.2.5 – Data file does not contain expected number of entries.**

**1.6 – More entries than expected.**

**1.8 – System displays error.**

**1.6 – Less entries than expected.**

**1.8 – System asks for additional file.**

1. **Business Rules/Assumptions (Non-Functional Requirements)**

**1. Must be able to store data files in system directory.**

**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).**

1. **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** |