Ice Cream Manager [ICM]

Use Case Summary Document

UCSD

Version No. v0.3

Project Document Revision History

|  |  |  |  |
| --- | --- | --- | --- |
| Version | Date | Revision Author | Description of Revision |
| 0.1 | 2016-2-22 | Marc King | Initial content generation. |
| 0.2 | 2016-2-22 | Marc King | Added Use Case list and framework for use case summaries. |
| 0.3 | 2016-3-5 | Marc King | Added use case diagrams and introduction from SPMP. |

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# 1.0 Introduction

This Software Project Management Plan details the functionality, methodology, and estimates for the Ice Cream Manager software product. Ice Cream Manager is a product which allows the manager of an ice cream truck fleet to efficiently and easily manage their inventories, sales history, and truck routes.

Ice Cream Manager will be a graphical interface that will employ a system that will increase efficiency for the role of managing ice cream trucks. This application will allow the user to keep track of inventory levels, calculate sales though inventory levels, and manage their fleet of trucks. Inventory levels will be able to be displayed and modified for each truck. Each truck has an assigned route that may be manually edited by the user, or changed via a batch file. Additionally, each route may also have the zones which comprise it modified. If a truck is assigned to a route, the fuel efficiency of those trucks will be calculated and displayed. Trucks will have an assigned driver that will be able to report voting results of a given route. Shipments of ice cream will have an expiration date associated with it to prevent waste, older ice cream will be sold first or disposed of if the date passes. This software will support multiple languages.

# 2.0 Project/Application Actors

|  |  |
| --- | --- |
| Actor Name | Description |
| Manager | The manager of the ice cream truck business. |
| Process | The system that merges a batch file with the database. |

# 3.0 Use Case List

UC01 - Modify Inventory  
UC02 - View Sales  
UC03 - Modify Route  
UC04 - Modify Truck  
UC05 - Process Batch File  
UC06 - Modify Item  
UC07 - Modify Driver  
UC08 - Modify Settings  
UC09 - Modify Voting  
UC10 - Modify Preset  
UC11 - View Fuel Usage

# 4.0 Use Case Diagrams



Diagram 1: UC01 Modify Inventory



Diagram 2: UC02 View Sales



Diagram 3: UC03 Modify Route



Diagram 4: UC04 Modify Truck



Diagram 5: UC05 Process Batch File



Diagram 6: UC06 Modify Item



Diagram 7: UC07 Modify Driver



Diagram 8: UC08 Modify Settings



Diagram 9: UC09 Modify Voting



Diagram 10: UC10 Modify Preset



Diagram 11: UC11 View Fuel Usage

# 5.0 Use Case Summary

## UC01 - Modify Inventory

Introduction…

|  |  |  |
| --- | --- | --- |
| Actor Name | Role | Description |
| Manager | Main | The manager of the ice cream truck business. |
| Processor | Secondary | The system that processes batch files. |

## UC02 - View Sales

Introduction…

|  |  |  |
| --- | --- | --- |
| Actor Name | Role | Description |
| Manager | Main | The manager of the ice cream truck business. |

## UC03 - Modify Route

Introduction…

|  |  |  |
| --- | --- | --- |
| Actor Name | Role | Description |
| Manager | Main | The manager of the ice cream truck business. |
| Processor | Secondary | The system that processes batch files. |

## UC04 - Modify Truck

Introduction…

|  |  |  |
| --- | --- | --- |
| Actor Name | Role | Description |
| Manager | Main | The manager of the ice cream truck business. |
| Processor | Secondary | The system that processes batch files. |

## UC05 - Process Batch File

The purpose of this use case is to allow a user to modify the data stored within the system using one or more batch files. Everything that can be modified manually using the user interface can be modified using these batch files.

|  |  |  |
| --- | --- | --- |
| Actor Name | Role | Description |
| Manager | Main | The manager of the ice cream truck business. |
| Processor | Secondary | The system that processes batch files. |

## UC06 - Modify Item

The purpose of this use case is to allow a user to modify the properties of inventory item. Those properties include the name, number, price, and expiration time.

|  |  |  |
| --- | --- | --- |
| Actor Name | Role | Description |
| Manager | Main | The manager of the ice cream truck business. |
| Processor | Secondary | The system that processes batch files. |

## UC07 - Modify Driver

Allows user to modify driver information. Able to set the drivers name and set their salary. Drivers will be assigned to trucks initially and can be moved to different trucks by user. The sales of the driver can be displayed through a daily or weekly view.

|  |  |  |
| --- | --- | --- |
| Actor Name | Role | Description |
| Manager | Main | The manager of the ice cream truck business. |
| Processor | Secondary | The system that processes batch files. |

## UC08 - Modify Settings

The purpose of this use case is to allow the user to change various settings related to the functionality of the graphical user interface.

|  |  |  |
| --- | --- | --- |
| Actor Name | Role | Description |
| Manager | Main | The manager of the ice cream truck business. |

## UC09 - Modify Voting

Introduction…

|  |  |  |
| --- | --- | --- |
| Actor Name | Role | Description |
| Manager | Main | The manager of the ice cream truck business. |

## UC10 - Modify Preset

Introduction…

|  |  |  |
| --- | --- | --- |
| Actor Name | Role | Description |
| Manager | Main | The manager of the ice cream truck business. |

## UC11 - View Fuel Usage

Introduction…

|  |  |  |
| --- | --- | --- |
| Actor Name | Role | Description |
| Manager | Main | The manager of the ice cream truck business. |

# 6.0 Use Case Summary Review and Signoff

Review and Signoff on the Use Case Summary Document

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Project Team Role | Signature | Date |
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