Ice Cream Manager [ICM]

USE CASE SPECIFICATION DOCUMENT

UC02
Manage Sales
Version No. v1.0

Project Document Revision History

VERSION	DATE	REVISION AUTHOR	DESCRIPTION OF REVISION
0.1	2016-2-26	Fan Zhang	Initial content generation.
0.2	2016-3-06	Fan Zhang	Make multiple changes and corrections
0.3	2016-3-15	Marc King	Style and format pass, updated actor list to match UCSD, added Table of Figures.
0.4	2016-3-16	Aly Lakhani	Added Business Requirements and updated format for Use Case code in Use Case Interactions. Updated spelling, and deleted alternate flow in section 8. Fixed grammar. Added new pre-conditions and post-conditions. Made new Main Flows and Alternate Flows. Updated Use Case Activity diagram to match new flows.
0.5	2016-3-17	Marc King	Update use case activity diagram.
1.0	2016-3-17	Cosmosys Team	Baselined.

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1.0 Introduction

The purpose of manage sales is to allow the manager to view the daily and weekly sales on different trucks, routes and drivers. This use case will cover three functionalities in the same pattern:

- Sales per Truck by adjustable period.
- Sales per Route by adjustable period.
- Sales per Driver by adjustable period.
- Overall Sales by adjustable period.

Manager can make some adjustments on item inventory and type of ice cream in the truck according to the sales amount.

2.0 Use Case Information

2.1 Actors

ACTOR NAME	ROLE	DESCRIPTION
Manager	Secondary	The manager of the ice cream truck company.
Modifier	Main	The role the manager or the control actor can take on when modifying business entities.
Control	Secondary	The software process that manages modifications to data.
View	Secondary	The software process that manages the display of information.

2.2 Use Case Interaction

- Predecessor
    - None
- Successor
    - UC01 Modify Inventory
    - UC03 Modify Route
    - UC04 Modify Truck
    - UC07 Modify Driver

3.0 Trigger

- Manager wants to view sales.
- Manager wants to log sales.
- Manager wants to log expired items.
- Manager wants to remove sold items.
- Manager wants to remove expired items.

4.0 Pre-condition(s)

4.1 Inventory Level

Inventory level must be lower than when initially loaded on to truck, or assigned to a specific route

4.2 UC03 Modify Route

Route must be assigned before sales can be calculated for the route.

4.4 UC04 Modify truck

Truck must be exist before sales can be calculated for the truck.

4.5 UC06 Modify Item

Item must exist before manager can remove sold or expired items, or sales for the item.

4.6 UC07 Modify Driver

Driver must be exist before sales can be calculated for the driver.

5.0 Post-condition(s)

5.1 Sales Displayed

Sales will be displayed by specified period, for overall, truck, route, and driver.
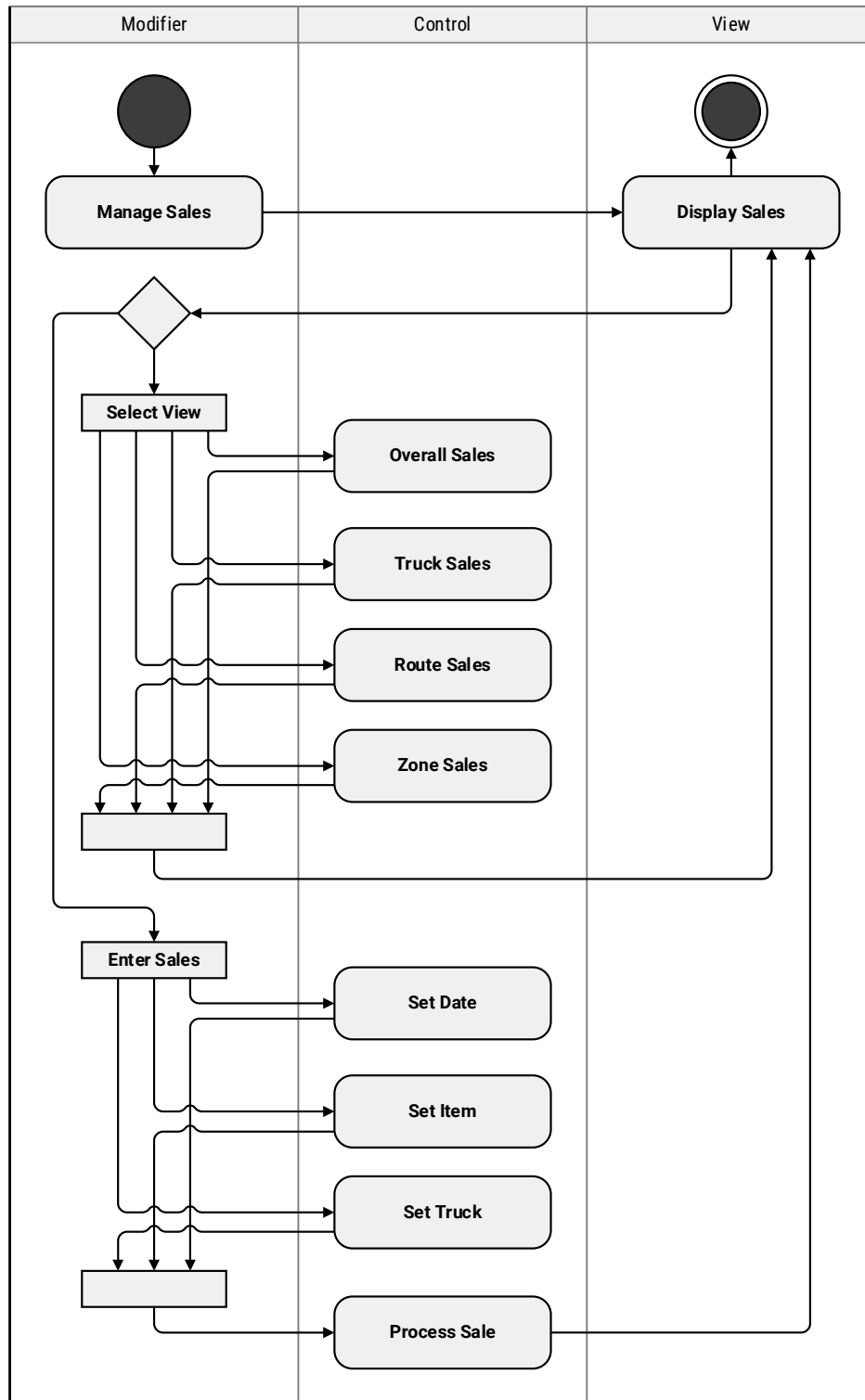
6.0 Use Case Activity Diagram

Diagram 1: Use Case Activity Diagram

7.0 Main/Basic Flow(s) of Events

7.1 Manager logs sales

1. Manager will receive new sales data.
2. Manager will make a decision to log it into system.
3. Manager will specify truck that made sale.
4. Manager will specify driver that made sale.
5. Manager will specify route sale was made on.

7.2 Manager views sales

1. Manager makes decision to view sales.
2. Manager is able to view sales per truck.
3. Manager is able to view sales per route.
4. Manager is able to view sales per driver.
5. Manager is able to view overall sales.

8.0 Alternate/Exception Flow of Events

8.1 Manager logs expired item

1. Item goes past expiration.
2. Manager makes decision to remove it from sales.

8.2 Manager removes sold item

1. Item becomes sold out.
2. Manager makes decision to remove it from sales.

9.0 Assumptions/Business Rules including Non-Functional Requirements

UC02-1 Inventory coming back should be less than what the truck started off with.

UC02-2 Items will be priced by the user.

UC02-3 Sales should be calculated within 1 second

10.0 Use Case Specification Review and Signoff

Review and Signoff of the Use Case Specification

NAME	PROJECT TEAM ROLE	SIGNATURE	DATE
Marc King	Team Lead		2016-03-17
Aly Lakhani	Developer		2016-03-17
Jacob Vacheresse	Developer		2016-03-17
Fan Zhang	Developer		2016-03-17