



Ice Cream Manager [ICM]

USE CASE SUMMARY DOCUMENT

UCSD

Version No. v1.0

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.
0.4	2016-3-7	Marc King	Revised list of actors.
0.5	2016-3-10	Marc King	Revised all Use Case diagrams and updated UC02 to Manage Sales
0.6	2016-3-15	Marc King	Style and formatting pass, updated actor lists.
0.7	2016-3-17	Marc King	Updated UC02 diagram
0.8	2016-3-17	Aly Lakhani	Updated Introduction for UC09 to match grammar corrections made in the UC09 Specification Document
1.0	2016-3-17	Cosmosys Team	Baselined.

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1.0 Introduction

This Use Case Summary Document 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 through 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 company.
Modifier	The role the manager or the control actor can take on when modifying business entities.
Control	The software process that manages modifications to data.
View	The software process that manages the display of information.

3.0 Use Case List

- UC01 – Modify Inventory
- UC02 – Manage 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

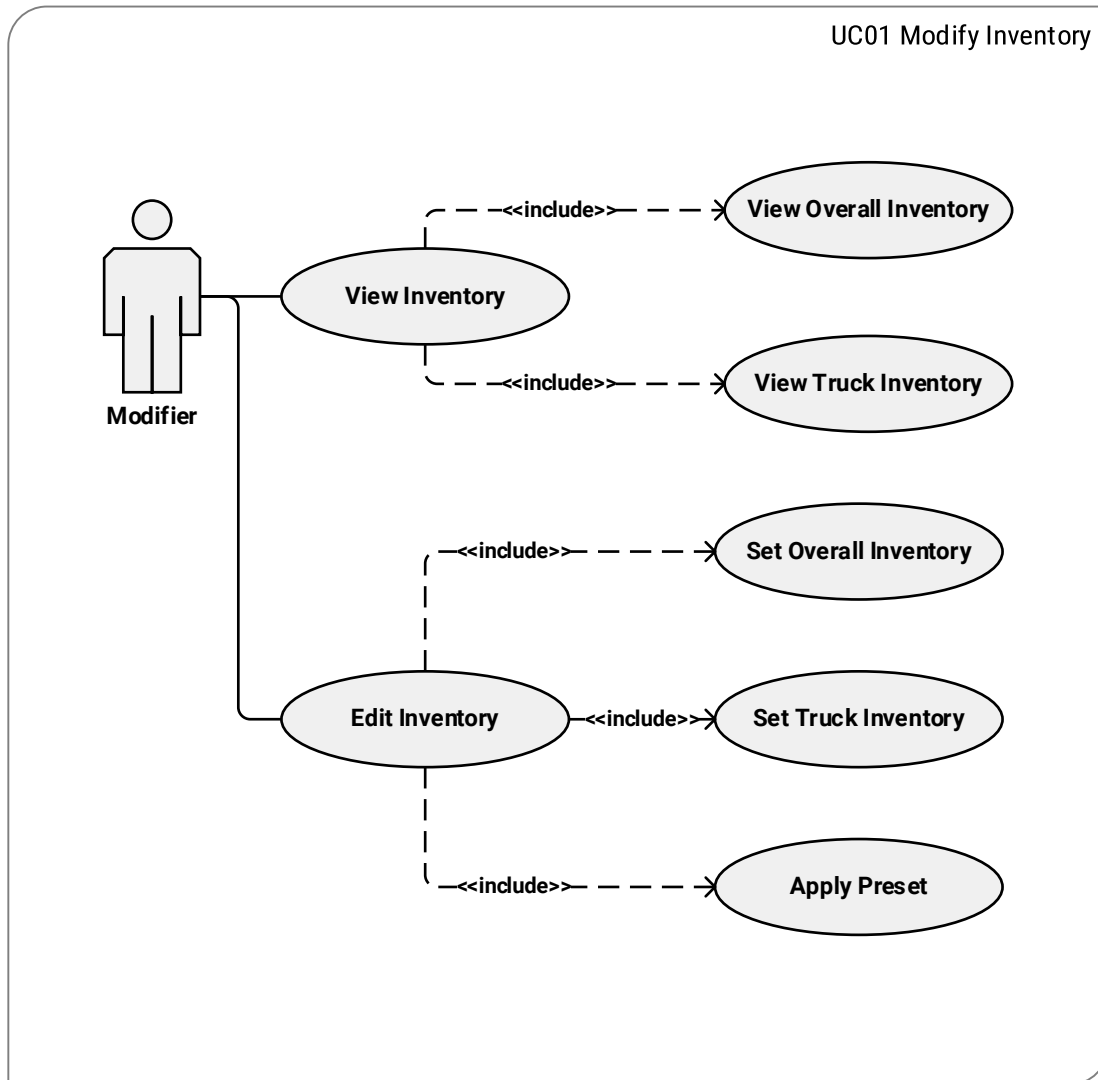


Diagram 1: UC01 Modify Inventory

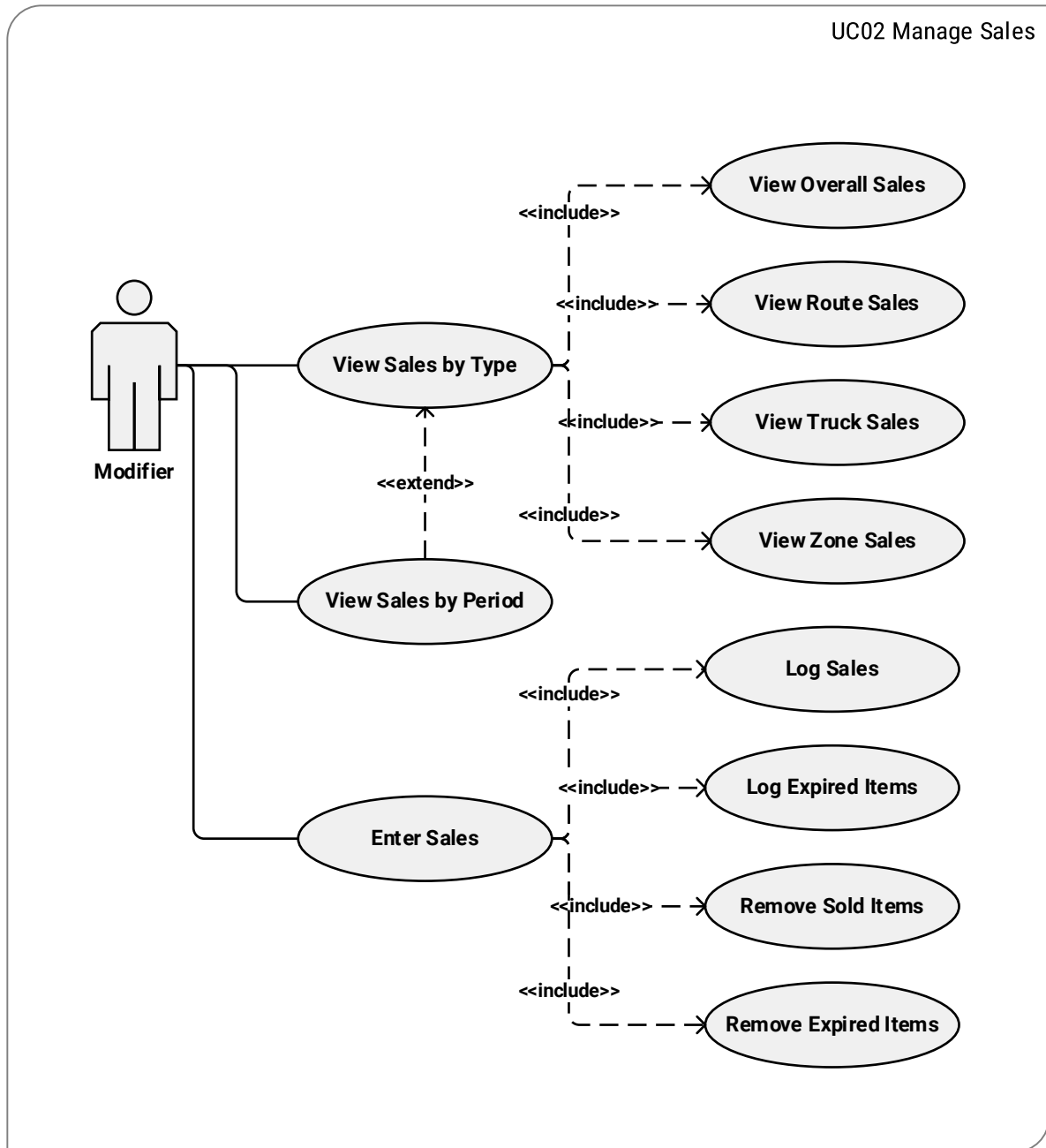


Diagram 2: UC02 View Sales

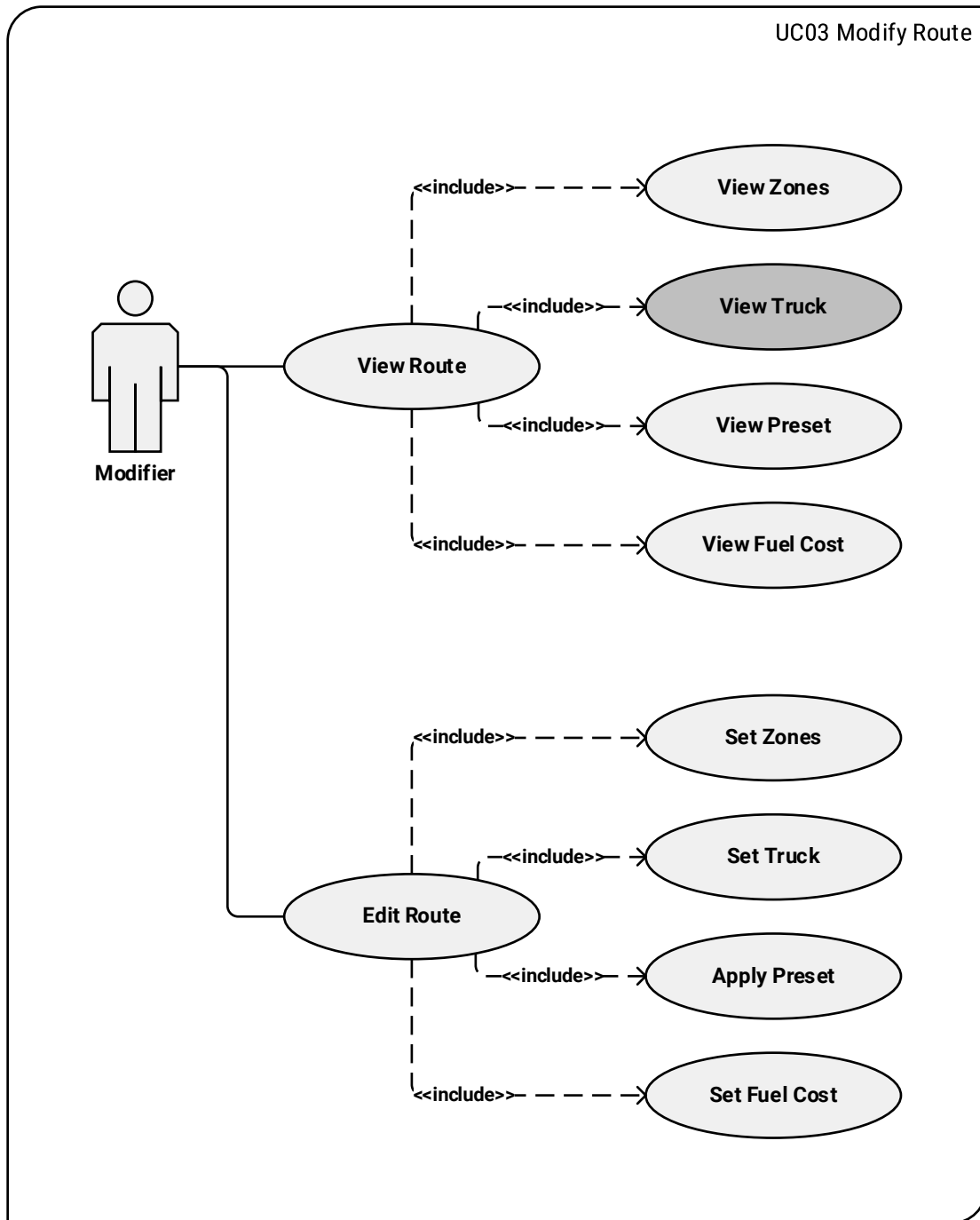


Diagram 3: UC03 Modify Route

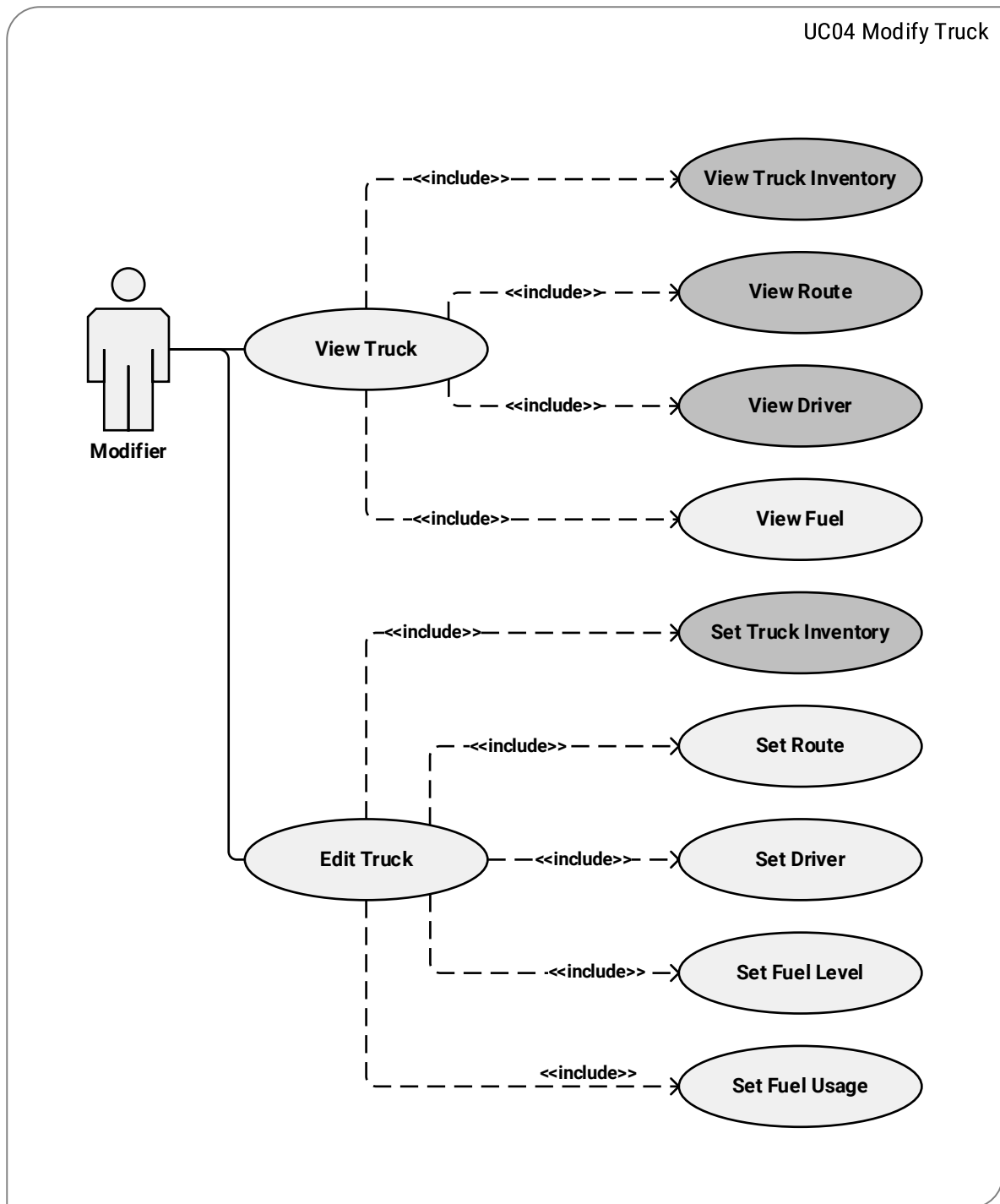


Diagram 4: UC04 Modify Truck

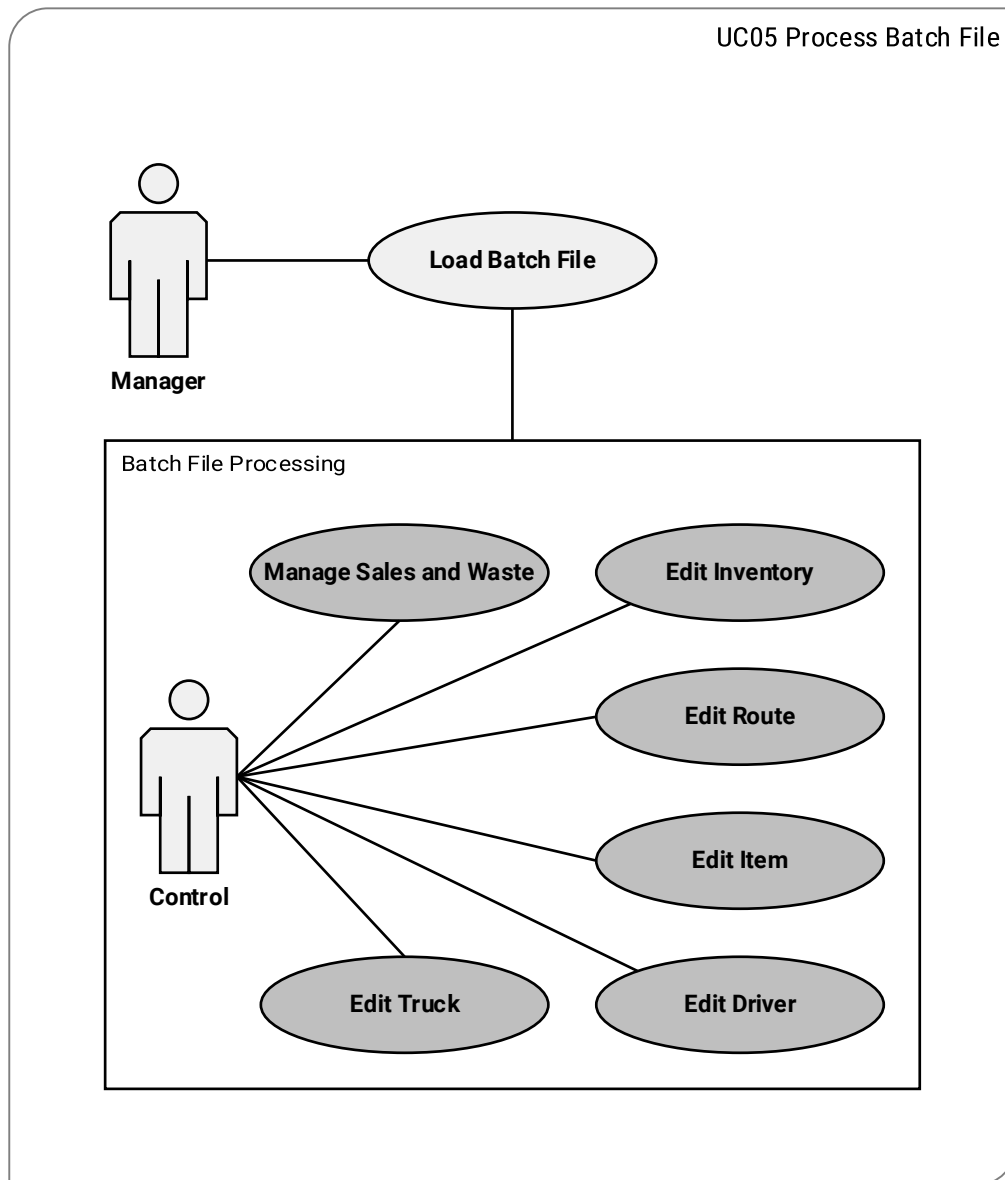


Diagram 5: UC05 Process Batch File

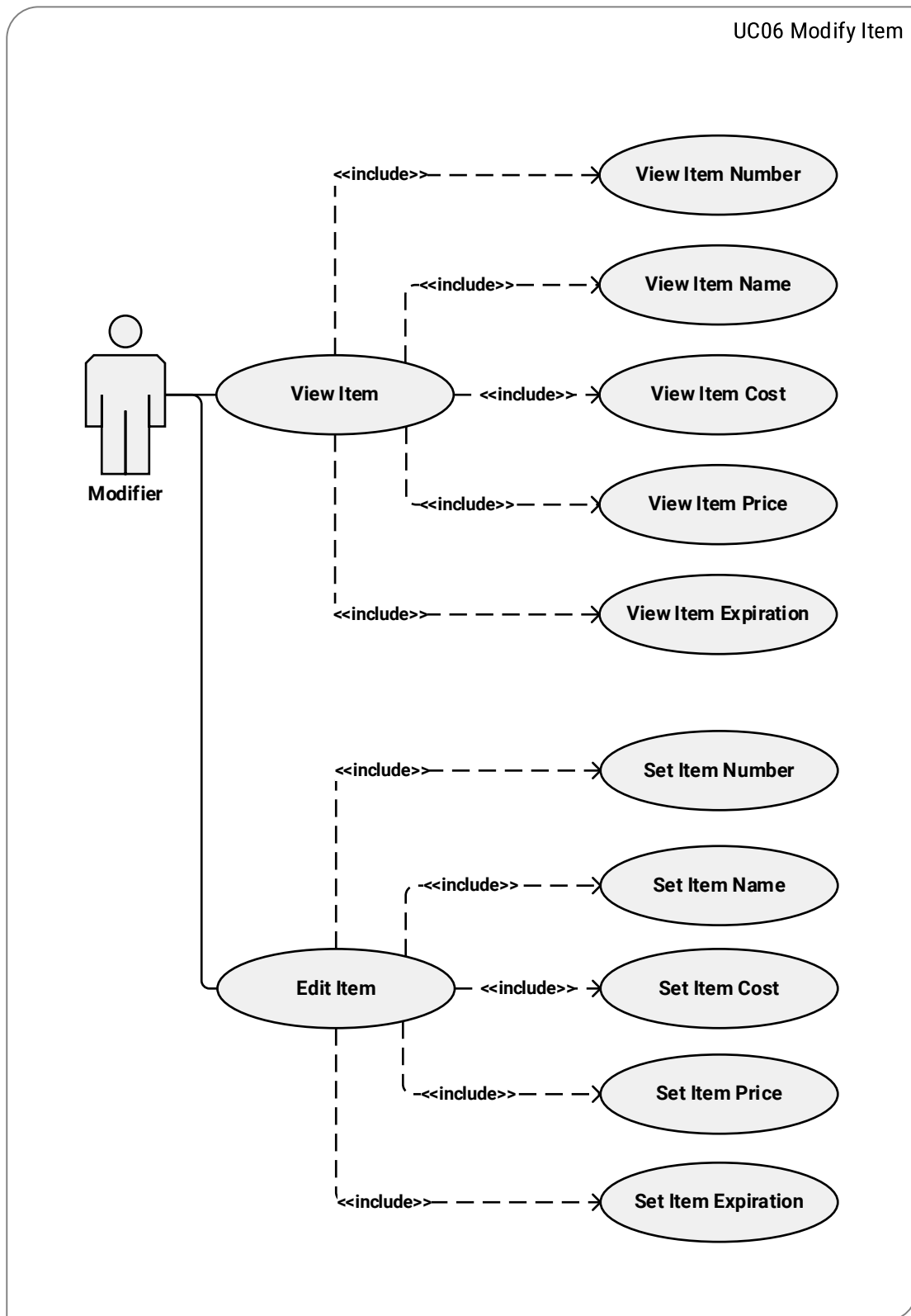


Diagram 6: UC06 Modify Item

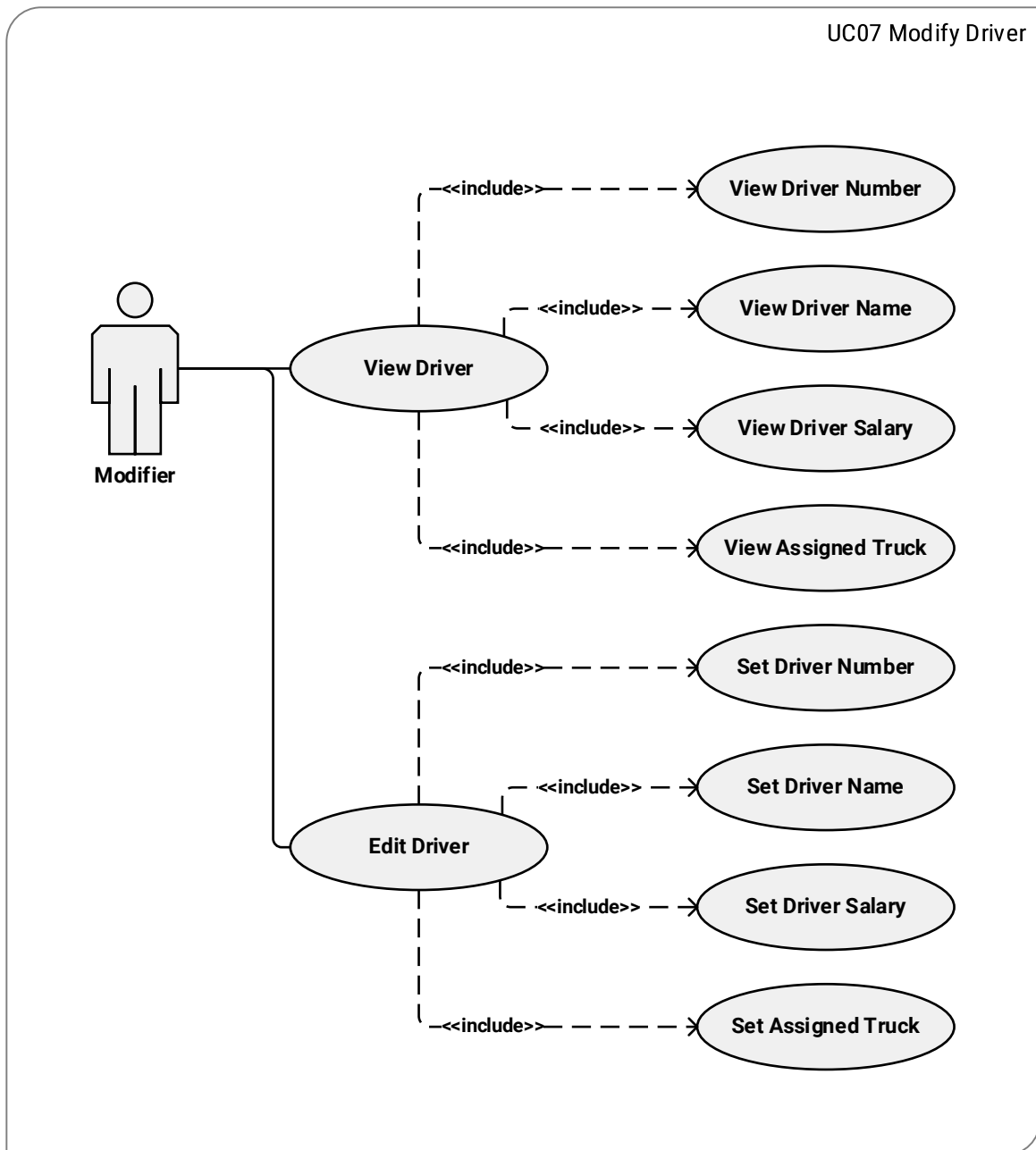


Diagram 7: UC07 Modify Driver

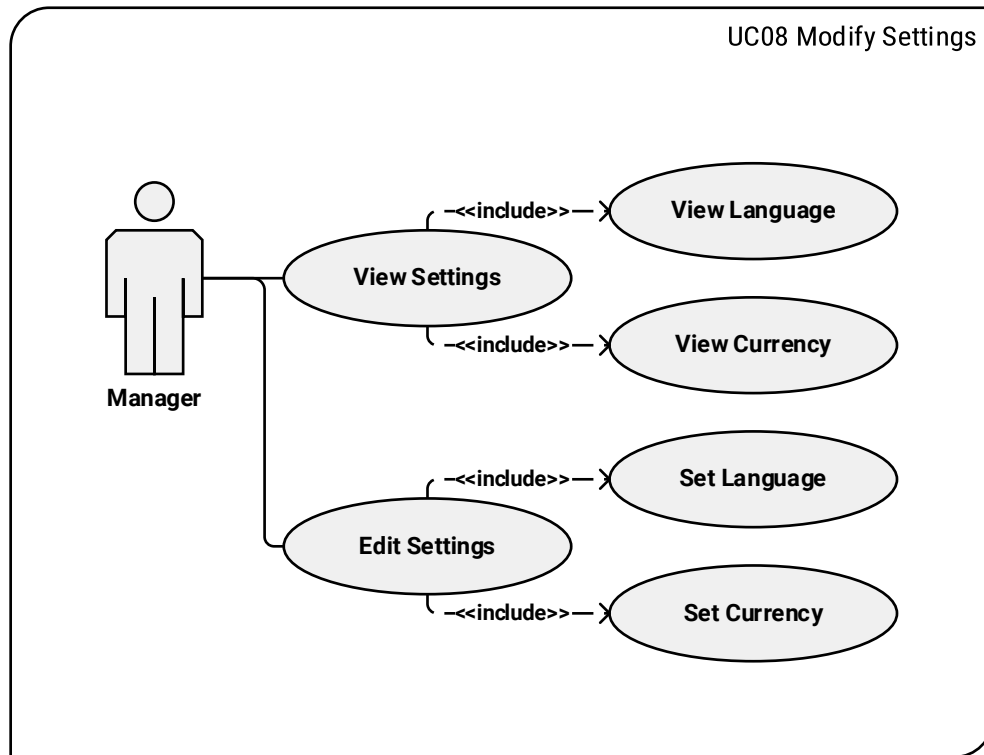


Diagram 8: UC08 Modify Settings

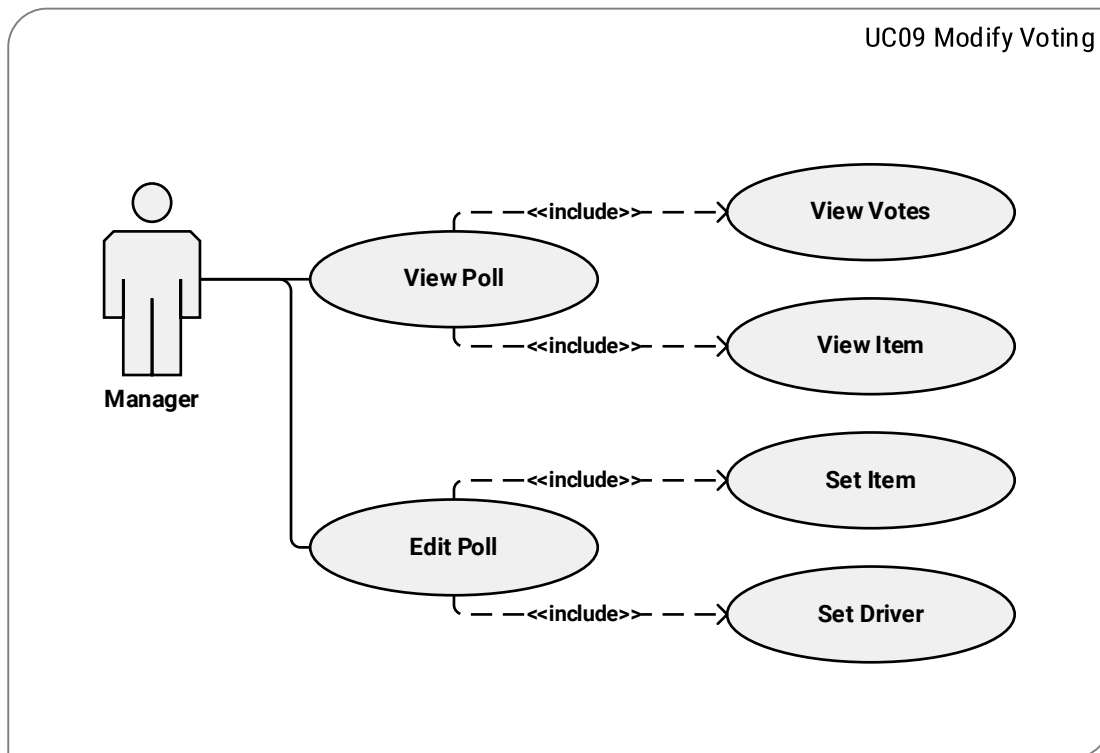


Diagram 9: UC09 Modify Voting

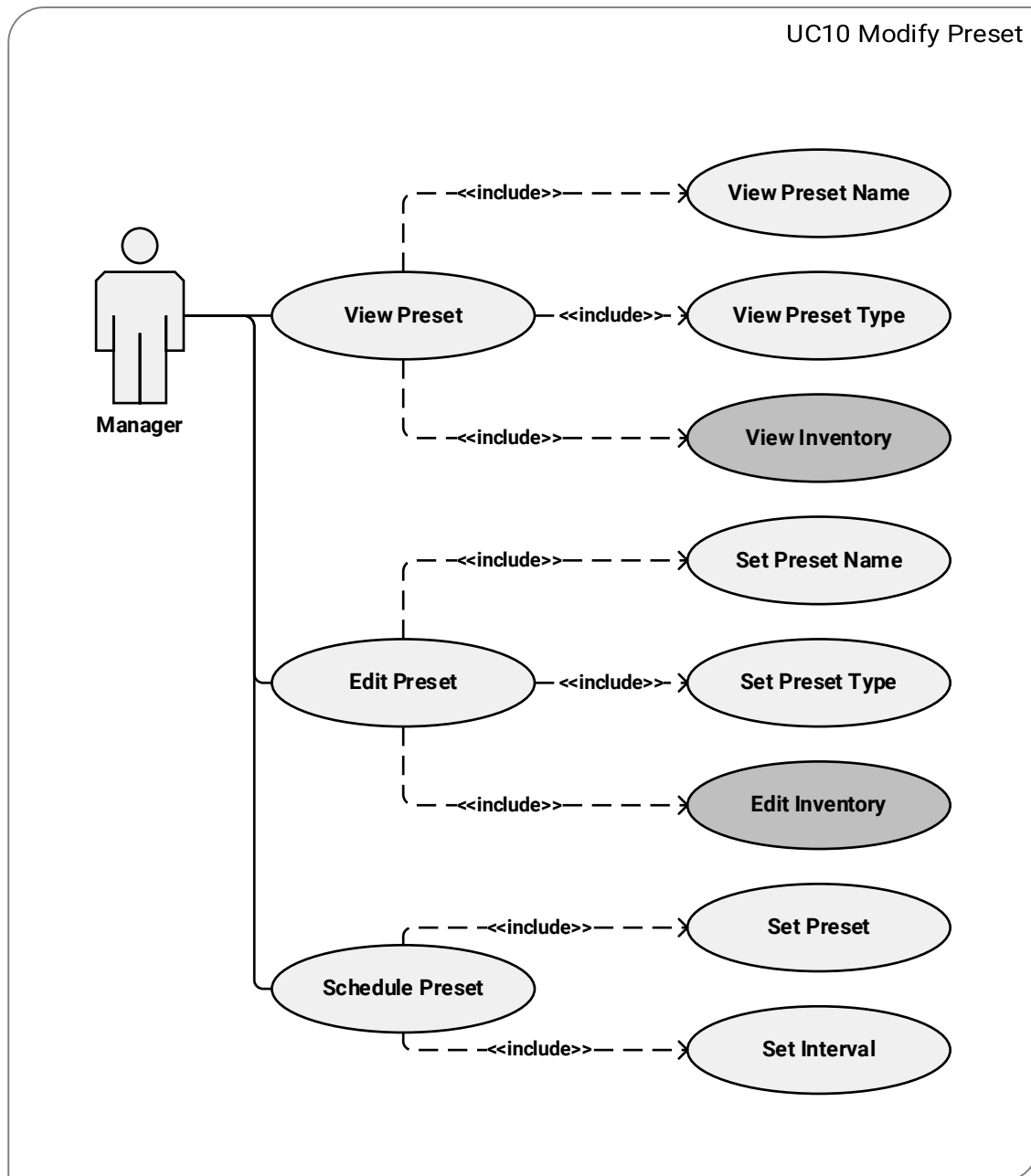


Diagram 10: UC10 Modify Preset

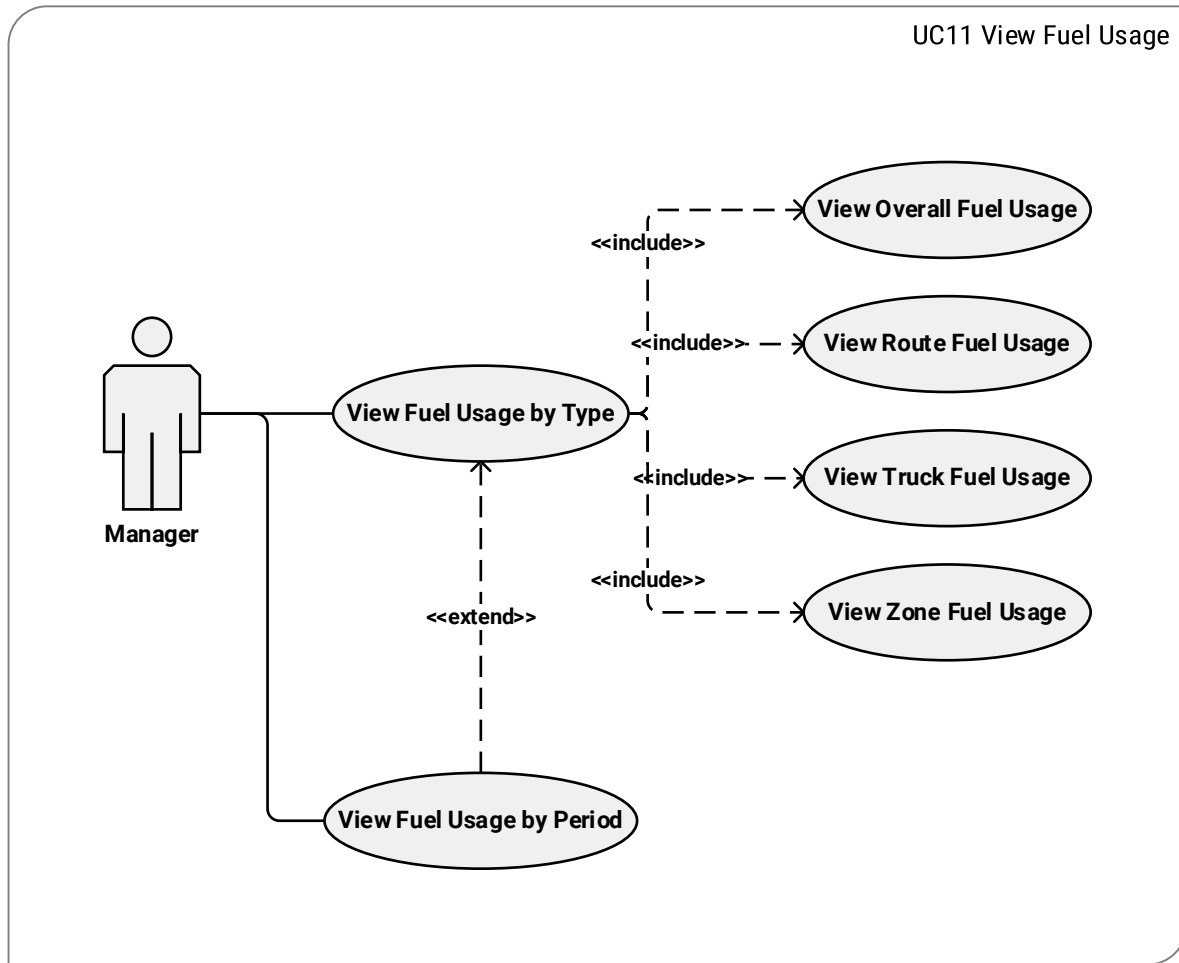


Diagram 11: UC11 View Fuel Usage

5.0 Use Case Summary

UC01 – Modify Inventory

The manager will be able to manually edit the inventory levels from here. This can also come from the inventory presets. Using this, the manager can increase, and/or decrease inventory levels for an ice cream truck(s), depending on the route the truck is travelling, the size of the truck, or custom user-entered inventories.

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.

UC02 – Manage Sales

The purpose of view sales is to allow manager view the daily sales and weekly sales on different truck, route and drivers.

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.

UC03 – Modify Route

Will allow user to view already created routes and the trucks assigned to them. Can view the route the order of zones in that route. Each route can have a preset applied to them to give them a particular inventory. User can modify routes by setting new zones or assigning a new truck to that route.

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.

UC04 – Modify Truck

This use case allows the user to view each trucks inventory, fuel level, assigned driver and assigned route. It also allows the user to edit the assigned driver, inventory, assigned route, fuel level and fuel usage for each truck.

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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.

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 company.
Control	Secondary	The software process that manages modifications to data.
View	Secondary	The software process that manages the display of information.

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	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.

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	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.

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 company.
Control	Secondary	The software process that manages modifications to data.
View	Secondary	The software process that manages the display of information.

UC09 – Modify Voting

The purpose of voting is to allow the user to add new polls to the system who will be able to make an analysis from the information received the poll after collecting all completed customer surveys delivered by the drivers. This use case will cover two distinct but closely related functionalities: Add poll and View poll. The manager will also be able to make adjustments to other use cases based on the charts and graphs drawn by the database system manager.

ACTOR NAME	ROLE	DESCRIPTION
Manager	Main	The manager of the ice cream truck company.
Control	Secondary	The software process that manages modifications to data.
View	Secondary	The software process that manages the display of information.

UC10 – Modify Preset

The manager will be able to enter custom preferences for inventory levels, and come back to favorited, or most used presets for convenience. This will be an alternate flow from the batch file and/or user entered data. From the presets, the manager will be able to assign inventory levels they have already created anytime they want to modify a truck or route.

ACTOR NAME	ROLE	DESCRIPTION
Manager	Main	The manager of the ice cream truck company.
Control	Secondary	The software process that manages modifications to data.
View	Secondary	The software process that manages the display of information.

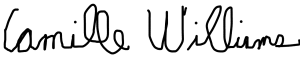





UC11 – View Fuel Usage

This use case displays fuel usage data. It allows the user to view data by truck or route. It displays a list of trucks and routes that the user can use to select individual trucks and routes to view fuel data for. The fuel usage data can be displayed by day or week in table format.

ACTOR NAME	ROLE	DESCRIPTION
Manager	Main	The manager of the ice cream truck company.
View	Secondary	The software process that manages the display of information.

6.0 Use Case Summary Review and Signoff

Review and Signoff on the Use Case Summary Document

NAME	PROJECT TEAM ROLE	SIGNATURE	DATE
Camille Williams	Project Manager		2016-03-17
Marc King	Team Lead		2016-03-17
Aly Lakhani	Developer		2016-03-17
Rodney Lewis	Developer		2016-03-17
Jacob Vacheresse	Developer		2016-03-17
Fan Zhang	Developer		2016-03-17