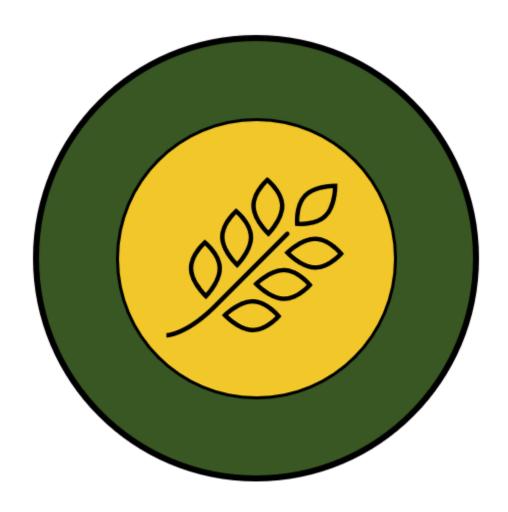
Warehouse Inventory System

Use Case Model



Release Version: v1.3

Date: 12/05/23

Responsible Analyst: Micah Gordon

Email: <u>micah.gordon@oit.edu</u>

Signatory Page

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	Signature(Calvin Caldwell)	

Revision History

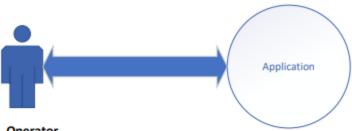
Author	Company	Version	Date	Comments
Micah Gordon	Quackedsoft	1.0	10/27/2023	Initial Draft
Micah Gordon	Quackedsoft	1.2	11/17/2023	Fixed headings for use cases. Updated CRUD
Micah Gordon	Quackedsoft	1.3	12/05/2023	Added scenarios and sequence diagrams.

Contents

Signatory Page	2
Revision History	3
Context Diagram	5
Use Case Model Tables	6
Actor Catalog Table	7
Features Verification Matrix	7
Use Case Specifications	8
Use Case 10: Incoming Truck	8
Use Case 10a: Create New Transfer Weight Sheet	15
Use Case 10b: New Inbound Weight Sheet	18
Use Case 10c: Create New Lot	21
Use Case 20: Reports	24
Use Case 30: Load Data Interactions	30
Use Case 30a: Edit Load Data	36
Use Case 40: Weight Sheet Data Interactions	39
Use Case 40a: Edit Weight Sheet Data	45
Use Case 50: Lot Data Interactions	48
Use Case 50a: Edit Lot Data	54
Use Case 60: Close Weight Sheet	57
Use Case 60a: Re-Open Weight Sheet	63
Use Case 70: Close Lot	66
Use Case 70a: Re-Orpen Lot	72
Use Case 80: Move Inbound Weight Sheet	75
Use Case 90: Move Load	81
Crud matrix	87
Low Fidelity Ui	91
Glossary	98
Appandix A Rusinoss Rulas	00

Context Diagram

WIS Context Diagram



Operator

New Load

New Transfer Weight Sheet

New Inbound Weigh Sheet

New Lot

Generate Reports

View, filter and/or sort Loads

Edit Loads

View, filter, sort Weight Sheets

Edit Weight Sheets

View, filter, sort Lots

Edit Lots

Close weight sheet

Re open weight sheet

Close Lot

Re open weight sheet

Move inbound weight sheet

Move load

Use Case Model Tables

Use Case ID	Use Case Name	Description
10	Lew Load	Operator has an incoming truck
10a	New Transfer Weight Sheet	Operator must create new transfer weight sheet
10b	New Inbound Weight Sheet	Operator must create new inbound weight sheet
10c	New Lot	Operator must create new lot
20	Report Generation	Operator needs to generate a report for warehouse
30	Loads Data Manip	Operator needs to view and/or change entered load data
30a	Edit Load	
40	Weight Sheets Data Manip	Operator needs to view and/or change entered weight sheet data
40a	Edit Weigh Sheet	
50	Lots Data Manip	Operator needs to view and/or change entered lot data
50a	Edit Lot	
60	Close Weight Sheet	Operator is required to close a weight sheet
60a	Reopen weight sheet	Operator must reopen a closed weight sheet
70	Close Lot	Operator is required to close a lot
70a	Reopen lot	Operator must reopen a closed lot
80	Move Inbound Weight Sheets	Operator moves a weight sheet from one lot to another
90	Move Load	Operator moves a load from one weight sheet to another.

Actor Catalog Table

Name	Туре	Description
Operator	Person	Individual operating scale and application.

Features Verification Matrix

Feature #'s	Use Case ID	Use Case Name
1.1-1.2, 2.1-2.2, 3.1- 3.4, 3.6 -3.10	10	New Load
5.1-5.3	20	Reports
4.3, 3.5	30	Load data view, edit, sort, filter
2.3, 4.2	40	Weight sheet data view, edit, sort, filter
4.1, 1.3-1.5	50	Lot data view, edit, sort, filter
2.5-2.6	60	Close/Reopen weight sheet
1.4-1.5	70	Close/Reopen Lot
2.4	80	Move Weight Sheet
3.11	90	Move Load

Use Case Specifications

Use Case 10: Incoming Truck

General Information		
Use Case Name\Number : 10	Responsible Analyst : Micah Gordon	
Subject Area: Load management		
Description : Operator has an incoming truck		

	Requirements/Feature Trace		
REQ#	Requirements Name and / or Short Description		
1.1 - 1.2	New lot creation.		
2.1 - 2.2	New Weight Sheet creation.		
3.1 – 3.4	Operator must be able to weigh a truck's new load in on a weight sheet.		
3.6 – 3.10	Operator must be able to weigh a truck out.		

Revision History			
<u>Author</u>	<u>Date</u>	<u>Comments</u>	
Micah Gordon	10/23/23	Initial Draft	

Insertion Points in other Use Cases (Adds Only)			
<u>Use Case Name</u>	Use Case Number	Step Inserted After	
NA			

Actors			
Actor Name	Person/System	Brief Description	
Operator	Person	Person operating scale	

	Pre-Conditions
#	Description
1	Overview screen is displayed
2	Truck who is not weighed in is ready to be weighed in.

Start Stimulus

Operator clicks new load button

Use Case Main Course Steps							
<u>Number</u>	<u>Description</u>	Adds/Alt Name/Number	Bus Rule#				
1	System displays new Load from						
2	Operator presses new Load button						
3	Operator Selects a weight sheet to place load on	New Weight Sheet,					
		New Lot					
4	Operator inputs load data		1 Mandatory vs optional data				
5	Operator presses "Weigh In"						
6	System displays Overview screen w/ updated load data for weight sheet.						
7	Operator selects "Weigh Out"						
8	System displays Overview screen w/ updated load data for weight sheet.		2 Calculate tare, net weights				

Exception Conditions							
Exception Situations	Action(s) on Exception	Adds\Alt UC #					
Scale connection failed during weight in process	System prompts Operator to manually input truck gross weight	N/A					
Truck weight <= 0	System prompts Operator to manually input a truck weight greater than 0	N/A					

	Post-Conditions						
<u>#</u>	# Description						
1	Load number on weight sheet is incremented.						
2	Overview screen is updated.						
3	System has updated weight sheet to have new load on it.						

	Candidate Objects	
Class/Object Name	<u>Descriptions</u>	<u>Possible</u> <u>attributes</u>
Load	Contains all the data for a truck load of a commodity	Id, weight sheet, gross, tare, net, time in, time out, truck id, bill of lading, bin id, moisture %, test weight, protein, notes
Transfer Weight Sheet	Contains all data for a particular transfer weight sheet	Id, weigher (operator), source of load, commodity type, commodity variety, Hauler, Miles, total billed, loads, notes
Inbound Weight Sheet	Contains all the data for inbound weight sheet	Id, weigher (operator), source of load, commodity type, commodity variety, Hauler, Miles, total billed, loads, notes, Lot number
Lot	Contains all the data for a producer's lot.	Id, Producer Id, state id, start date, end date, weight sheets, landlord, Farm number, notes

	Assumptions						
#	<u>Assumption</u>	<u>Date</u>	<u>Raised</u>	<u>Date</u>	Verified By		
		<u>Raised</u>	<u>By</u>	<u>Verified</u>			

1	Operator has opened the web app	10/23/23	Micah Gordon	
2	Operator has logged in for their warehouse	10/23/23	Micah Gordon	

	Issues								
# Issue Date Raised Date Verified									
		Raised	<u>By</u>	<u>Verified</u>					
1	HTML Request scale not ready for test	10/2323	Micah Gordon						

Other Comments						
<u>Author</u>	<u>Comment</u>	<u>Date</u>				
Micah Gordon	Number 4 ALT selection: Operator will check data when they select a weight sheet. If an appropriate weight sheet does not exist, the operator will create a new weight sheet.	10/23/23				
Micah Gordon	Number 4 ALT selection: If the Operator must create a new inbound weight sheet, they must check the data to see if they need a new lot. If they need a new lot they must follow alternate to create a new lot.	10/23/23				
Micah Gordon	Inbound weight sheets have a lot. Transfer weight sheets do not.	10/23/23				

Frequency of Execution						
Frequency:	Minir	mum: 0	Max	Maximum: 200		(OR)Fixed:
Per:	Hour:	Day: 🛛	Week: □	Week: ☐ Month: ☐		depended

	Timing Information									
<u>#</u>	At/	Step(s)	<u>Timing</u>	<u>Minimum</u>	<u>Average</u>	<u>Maximum</u>	<u>Comments</u>			
	<u>Between</u>		<u>Unit</u>							
1	Between	2, 3	Seconds	N/A	.5	2	Loads load form			
2	Between	3, 4	Seconds	N/A	.5	2	Sys loads weight sheets			
3	Between	6, 7	seconds	N/A	.5	2	Sys loads updated overview			

	Volume Information								
<u>#</u>	Step #	<u>Unit of</u>	<u>Minimum</u>	<u>Average</u>	<u>Maximum</u>	<u>Comments</u>			
		<u>Measure</u>							

1	2	Bytes	90	Load weight sheets
2	5	Bytes	180	Sends updated weight sheet to server and returns updated weight sheet for display
3	6	Bytes	180	See 2

Scenario 10

System displays new Load form.

Operator presses "New Load" button.

WeightSheetService gets list of active weight sheets from database.

Operator selects a weight sheet to a place load on

Operator inputs load data

Operator presses "Weigh in"

Load is added to WeightSheet LoadServices puts the load in database. WeightSheetService posts the updated WeightSheet.

System displays overview screen with updated load data for weight sheet.

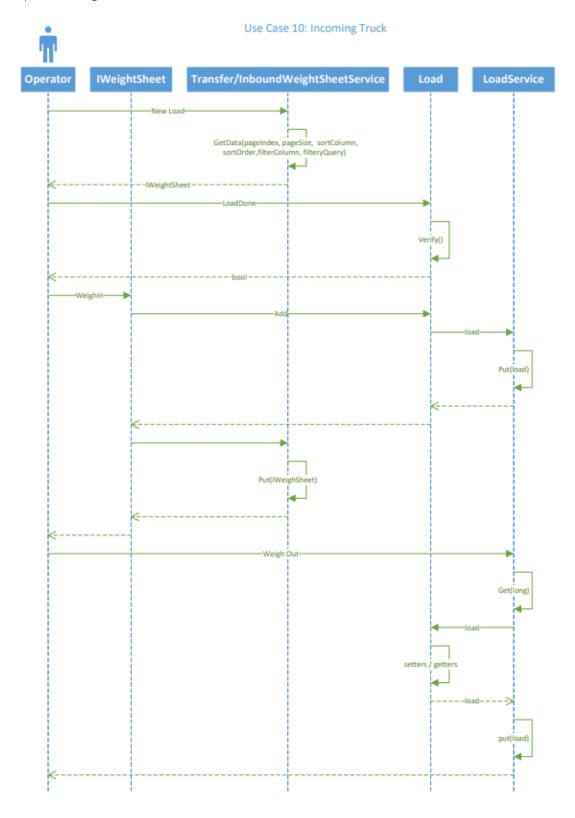
Operator selects "Weight Out".

LoadService gets the Load.

Load updates.

LoadService puts the load in database.

System displays Overview screen with updated load data for weight sheet.



Use Case 10a: Create New Transfer Weight Sheet

<u> </u>	
Alternate Course General Information	
Alternate Course Name\Number: 10a	
·	
Description: Operator creates a new transfer weight sheet,	
Description Operate discrete and described the services,	
Reason for Execution: Operator has valid existing transfer weight sheet to use. Non Exception:	Exception:
reason to Exceeding operator has valid existing dataset. Weight sheet to user him Exception 2	zxeeptioni 🗀
Insertion Point	

Insertion Point	
Step Inserted After	
3	

Pre-Conditions

1. No valid weight sheet exists for the new load. Drive information does not match any existing weight sheet. Max number of loads on existing weight sheets has been exceeded.

	Alternate Course Steps		
<u>#</u>	Step Description	Adds Use Case #	Business Rule(s)#
1.	Operator selects "New Transfer Weight Sheet"		
2.	System displays new transfer weight sheet form		
3.	Operator fills out weight sheet form. Clicks "Done"		3 Mandatory vs optional fields
4.	System returns to and displays "New Load" form		

	Post-Conditions
1.	New weight sheet is added to overview table. New load is put on new weight sheet.

Scenario 10a

Operator selects "New Transfer Weight Sheet".

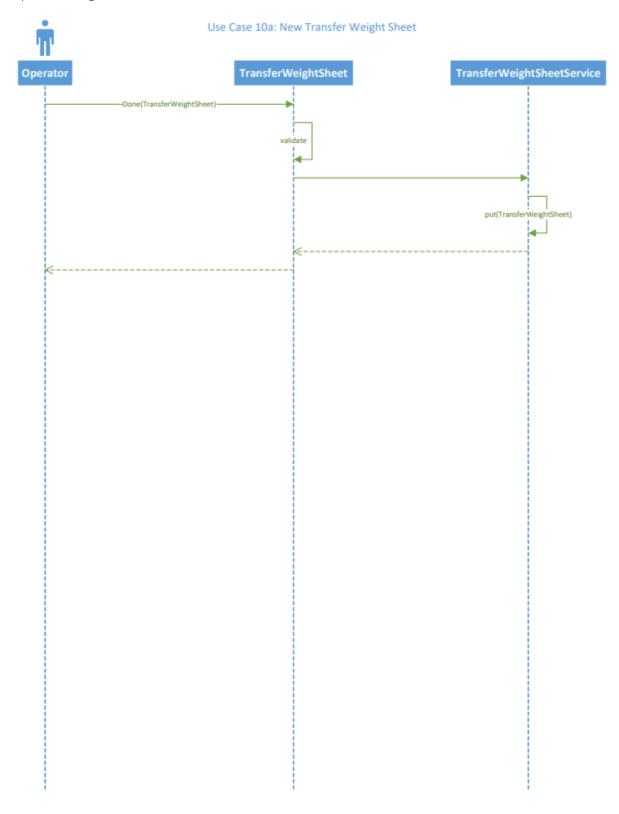
System displays new transfer weight sheet form.

Operator fills out weight sheet form. Clicks "Done"

TransferWeightSheet validates data.

TransferWeightSheetService puts TransferWeightSheet into database.

System returns to display "New Load" form.



Use Case 10b: New Inbound Weight Sheet

3

ose case fob. New impound weight sheet
Alternate Course General Information
Alternate Course Name\Number: 10b
Description: Operator creates a new inbound weight sheet
Reason for Execution: No valid inbound weight sheet exists for a new load Non Exception: Exception:
Insertion Point
Step Inserted After

	Pre-Conditions
1.	Driver information does not match an existing weight sheet.
2.	Driver has indicated a new lot is to be opened
3.	Existing weight sheet is invalid because it has no space left on it.

	Alternate Course	e Steps	
<u>#</u>	Step Description	Adds Use Case #	Business Rule(s)#
1.	Operator selects New "New Inbound Weight Sheet"		
2.	System displays new inbound weight sheet form		
3.	Operator fills out form. Clicks "Done"		4 Mandatory vs optional fields
4.	System returns to and displays "New Load" form		

	Post-Conditions
1.	New weight sheet is added to overview table.
2.	New load is put on new weight sheet.

Scenario 10b

Operator selects "New Inbound Weight Sheet".

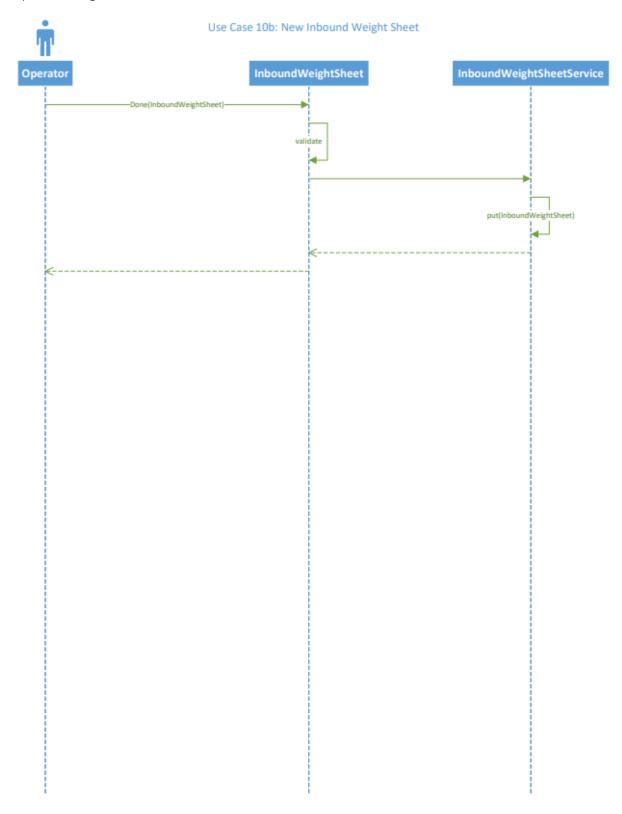
System displays new inbound weight sheet form.

Operator fills out form. Clicks "Done"

InboundWeightSheet validates input data.

 $Inbound Weight Sheet Service\ puts\ Inbound Weight Sheet Service\ into\ database.$

System returns to and displays "New Load" form.



Use Case 10c: Create New Lot

Alternate Course General Information
Alternate Course Name\Number: 10c
Description: Operator creates new lot
Reason for Execution: Incoming load for inbound weight sheet has no valid lot. Non Exception: Exception:
Insertion Point
Step Inserted After
3
Pre-Conditions
Driver information does match an existing lot.
2.

	Alternate Cours	e Steps	
#	Step Description	Adds Use Case #	Business Rule(s)#
1.	Operator selects "New Lot"		
2.	System displays new lot form		
3.	Operator fills out "New Lot" form. Clicks done		5 mandatory vs optional fields
4.	System redirects operator to "New Inbound Weight Sheet" form		
5.	Operator fills out "New Inbound Weight Sheet" form. Clicks "done"		4 mandatory vs optional fields
6	System returns to "New Load" form		

	Post-Conditions
1.	New lot is added to overview table.
2.	New weight sheet is added to overview table.
3.	New load is put on new weight sheet.

Scenario 10c

Operator selects "New Lot".

System displays new lot from.

Operator fills out "New Lot" form. Clicks done.

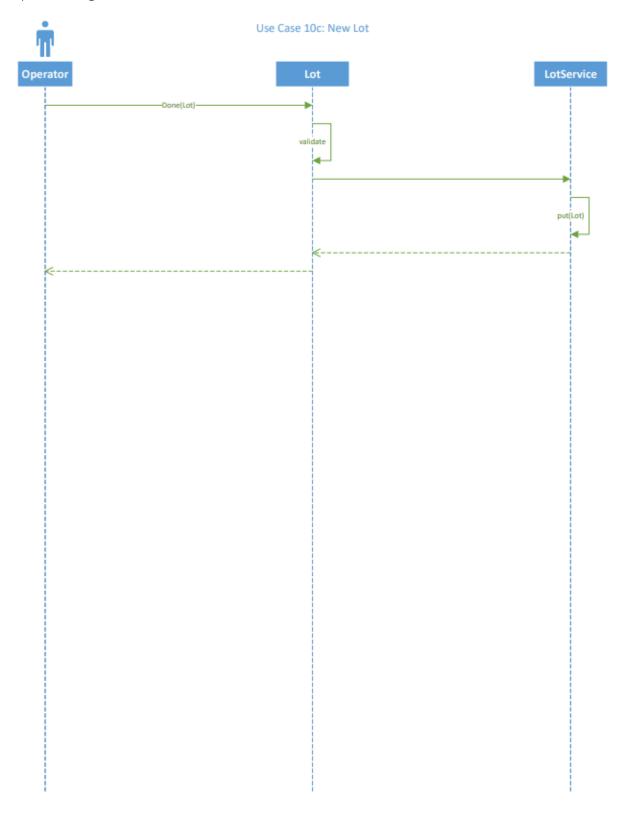
Lot validates data enter.

System redirects operator to "New Inbound Weight Sheet" form.

Operator fills out "New Inbound Weight Sheet" form. Clicks "Done".

System returns to "New Load" form.

LotService puts Lot in the database.



Use Case 20: Reports

General Information			
Use Case Name\Number : 20	Responsible Analyst : Micah Gordon		
Subject Area: Reports			
Description: Operator generates a report of the warehouse			

	Requirements/Feature Trace			
REQ#	REQ# Requirements Name and / or Short Description			
5.1 – 5.3	Reports			

Revision History						
<u>Author</u> <u>Date</u> <u>Comments</u>						
Micah Gordon	10-23-23	Initial Draft				

Insertion Points in other Use Cases (Adds Only)							
<u>Use Case Name</u>	<u>Use Case Name</u> <u>Use Case Number</u> <u>Step Inserted After</u>						
N/A N/A							

Actors				
Actor Name	Person/System	Brief Description		
Operator	Person	Individual operating scale		

	Pre-Conditions			
#	# Description			
1.	Data must exist in the database			

Start Stimulus

Operator clicks "Reports" button

Use Case Main Course Steps					
<u>Number</u>	<u>Description</u>	Adds/Alt Name/Number	Bus Rule#		
1.	Operator clicks "Reports"				
2.	System displays reports page				
3.	System prompts user for report type				
4.	Operator selects a report type		6 report types		
5.	System previews the report				
6.	Operator selects Export report		7 Excel or pdf		
7.	System exports report				
8.	System displays overview screen				

Exception Conditions				
Exception Situations	Action(s) on Exception	Adds\Alt UC #		
N/A				

Post-Conditions				
<u>#</u>	# Description			
1.	Data is exported to pdf or excel based on operators sorts and or filters.			

Candidate Objects				
Class/Object Name	Possible attributes			
Warehouse	Object containing data and behavior for a warehouse	Bins, Id, district, weight sheets		

	Assumptions						
<u>#</u>	# Assumption Date Raised Date Verified By						
		Raised	<u>By</u>	<u>Verified</u>			
	N/A						

	Issues						
<u>#</u>	# Issue Date Raised Date Verified By						
		Raised	<u>B</u> y	<u>Verified</u>			
	N/A						

Other Comments				
<u>Author</u>	<u>Comment</u>	<u>Date</u>		
Micah Gordon	Report types can be see in functional requirements 5.4.1, 5.4.3, 5.4.4, and 5.4.5	10/23/23		

Frequency of Execution						
Frequency:	Minir	mum: 1	Max	ximum:	Average:	(OR)Fixed:
Per:	Hour:	Day: 🛚	Week: □	Month: ☐	Other:	

	Timing Information						
<u>#</u>	At/	Step(s)	<u>Timing</u>	<u>Minimum</u>	<u>Average</u>	<u>Maximum</u>	<u>Comments</u>
	<u>Between</u>		<u>Unit</u>				
1	Between	1, 2	Seconds	N/A		2	Gets data from database
2	Between	4, 5	Seconds	N/A		2	Gets displays filtered data
3	Between	6, 7	Seconds	N/A		5	Exports data

	Volume Information					
<u>#</u>	Step #	<u>Unit of</u>	<u>Minimum</u>	<u>Average</u>	<u>Maximum</u>	<u>Comments</u>
		<u>Measure</u>				
1	2	Bytes	100			Estimated
2	5	Bytes	1K			Estimated, depended on DTO & size of report selected
3	7	Bytes	1K			Estimated

Scenario 20

Operator clicks "Rep

System displays reports page.

System prompts operator for report type.

Operator selects a report type.

ReportService gets data.

System previews the report.

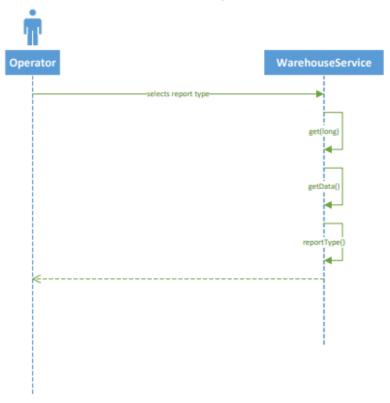
Operator selects Export Report.

System exports report.

Report exports data Excel or pdf.

System displays overview screen.

Use Case 20: Reports



Use Case 30: Load Data Interactions

General Information				
Use Case Name\Number: 30	Responsible Analyst : Micah Gordon			
Subject Area: Operator data interactions				
Description: Operator views Loads for warehouse				

Requirements/Feature Trace			
REQ#	Requirements Name and / or Short Description		
4.3	Load data is viewable, filterable and sortable		
3.5	Load data is editable		

Revision History				
<u>Author</u>	<u>Date</u>	<u>Comments</u>		
Micah Gordon	10/24/23	Initial Draft		

Insertion Points in other Use Cases (Adds Only)					
<u>Use Case Name</u> <u>Use Case Number</u> <u>Step Inserted After</u>					
N/A					

Actors				
Actor Name	Person/System	Brief Description		
Operator	Person	Individual operating scale and application		

	Pre-Conditions
#	Description
1	Load data exists in database

Start Stimulus

Operator clicks "Loads" button

Use Case Main Course Steps					
Number	<u>Description</u>	Adds/Alt Name/Number	<u>Bus Rule#</u>		
1	Operator clicks "Loads" button				
2	System displays Loads page	30a			
3	Operator filters/sorts data				
4	System updates page to match operators filters and/or sorts				
5	Operator clicks "Overview" button				

Exception Conditions					
Exception Situations	Action(s) on Exception	Adds\Alt UC #			
N/A	N/A	N/A			

	Post-Conditions
<u>#</u>	<u>Description</u>
1	Loads page is consistent with interactions the operator has made
2	Loads page is reset to default filters and sorts when operator navigates away.

Candidate Objects				
Class/Object Name	<u>Descriptions</u>	<u>Possible</u> <u>attributes</u>		
N/A	N/A	N/A		

	Assumptions						
<u>#</u>	<u>Assumption</u>	Assumption <u>Date</u> <u>Raised</u> <u>Date</u> <u>Verified By</u>					
		Raised	<u>B</u> y	<u>Verified</u>			
1	There is data in the database	10/24/23	Micah Gordon				

	Issues						
<u>#</u>	<u>Issue</u>	<u>Date</u>	Raised	<u>Date</u>	Verified By		
		Raised	<u>By</u>	<u>Verified</u>			
	N/A	N/A	N/A	N/A	N/A		

	Other Comments	
<u>Author</u>	Comment	<u>Date</u>
Micah Gordon	By default the loads pages should only display "today's date" loads	10/24/23
Micah Gordon	For possible objects Ref Use Case: 10	10/24/23
Micah Gordon	Filter and sort options can be found in Functional Requirements 4.3.2-4.3.3	10/24/23

	Frequency of Execution					
Frequency:	Minir	mum:	Maxi	mum:	Average: 50	(OR)Fixed:
Per:	Hour:	Day: 🛚	Week: □	Month: □	Other:	

	Timing Information							
<u>#</u>	At/	Step(s)	<u>Timing</u>	<u>Minimum</u>	<u>Average</u>	<u>Maximum</u>	<u>Comments</u>	
	<u>Between</u>		<u>Unit</u>					
1	Between	1, 2	Seconds	n/a		2	Depends on amount of loads that day	
2	Between	3, 4	Seconds	n/a		3	Depends on requests	
3	Between	4, 5	Seconds	n/a		1.5		

	Volume Information							
<u>#</u>	Step #	<u>Unit of</u>	<u>Minimum</u>	<u>Average</u>	<u>Maximum</u>	<u>Comments</u>		
		<u>Measure</u>						
1	2	Bytes	0	1k		Estimated with size of api jsons		
2	3	Bytes	0	1k		Depends on what filters/sorts used		

Scenario 30

Operator clicks "Loads" button.

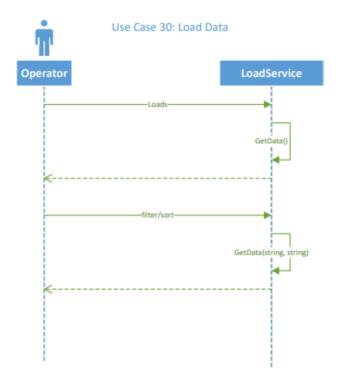
System displays Loads page.

Operator filters/sorts data.

System updates page to match operator filters and/or sorts.

LoadService gets updated IApiResult.

Operator clicks "Overview" button.



Use Case 30a: Edit Load Data

Alternate Course General Information
Alternate Course Name\Number: 30a
Description: Edit Load Data
Reason for Execution: Update needed due to bad or incomplete data Non Exception: Exception:
Insertion Point
Step Inserted After
2
Pre-Conditions
Load data exists in the data base
Default display is data from "today's date"

	Alternate Course Steps							
<u>#</u>	Step Description	Adds Use Case #	Business Rule(s)#					
1.	Operator selects a data field and modifies it		1 mandatory / optional					
2.	System updated the data shown to operator's input		7 sanitize					
3.	Operator navigates away from Loads page							

	Post-Conditions					
Ī	Valid data has been updated in the database.					
ſ	2.	New data shows on the overview screen				

Scenario 30a

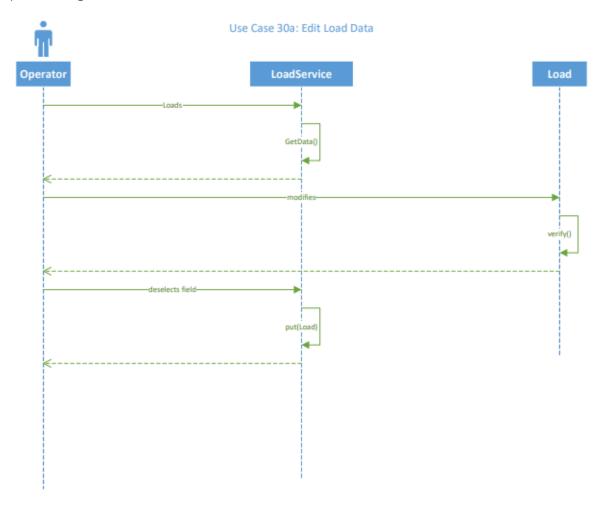
Operator selects a data field and modifies it.

Form verifies Operator input.

System updates the data shown to operator's input.

LoadService puts data.

Operator navigates away from Loads page.



Use Case 40: Weight Sheet Data Interactions

General Information			
Use Case Name\Number: 40	Responsible Analyst : Micah Gordon		
Subject Area: Operator data interactions			
Description: Operator Interacts with Weight Sheet for warehouse			

Requirements/Feature Trace			
REQ#	Requirements Name and / or Short Description		
2.3	Operator is able to edit weight sheet data		
4.2	Operator is able to view, filter and sort weight sheet data		

Revision History					
<u>Author</u> <u>Date</u> <u>Comments</u>					
Micah Gordon	10/24/23	Initial draft			

Insertion Points in other Use Cases (Adds Only)				
<u>Use Case Name</u> <u>Use Case Number</u> <u>Step Inserted After</u>				
N/A	N/A	N/A		

Actors					
Actor Name Person/System Brief Description					
Operator Person		Individual operating scale and application			

Pre-Conditions			
#	# Description		
1	Weight sheet data exists		

Start Stimulus

Operator clicks "Weight Sheets" button

Use Case Main Course Steps					
Number	<u>Description</u>	Adds/Alt Name/Number	Bus Rule#		
1	Operator clicks "Weight Sheet" button				
2	System displays Weight Sheet page	40a			
3	Operator filters/sorts data				
4	System updates page to match operator filters and/or sorts				
5	Operator clicks "Overview" button				

Exception Conditions			
Exception Situations	Action(s) on Exception	Adds\Alt UC #	
N/A	N/A	N/A	

	Post-Conditions			
<u>#</u>	# Description			
1	Weight Sheets page is consistent with Operator actions			
2	Weight Sheets page is rest to default filters and sorts when operator navigates away			

Candidate Objects				
<u>Class/Object</u> <u>Descriptions</u> <u>Possible</u> <u>Name</u> <u>attributes</u>				
N/A	N/A	N/A		

	Assumptions					
#	Assumption Date Raised Date Verified By					
		Raised	<u>By</u>	<u>Verified</u>		
1	1 There is data in the database 10/24/23 Micah Gordon					

	Issues						
<u>#</u>	# <u>Issue</u> <u>Date</u> <u>Raised</u> <u>Date</u> <u>Verified By</u>						
		Raised	<u>By</u>	<u>Verified</u>			
	N/A	N/A	N/A	N/A	N/A		

Other Comments				
<u>Author</u>	Comment	<u>Date</u>		
Micah Gordon	By default the loads pages should only display "today's date" loads	10/24/23		
Micah Gordon	For possible objects Ref Use Case: 10	10/24/23		
Micah Gordon	Filter and sort options can be found in Functional Requirements 4.2.2-4.2.3	10/24/23		

		Fre	equency of Execution					
Frequency:	Minir	mum:	Maximum:		Average:	50	(OR)Fixed:	
Per:	Hour:	Day: 🛚	Week: □	Month: □	Other:			

	Timing Information						
<u>#</u>	At/	Step(s)	<u>Timing</u>	<u>Minimum</u>	<u>Average</u>	<u>Maximum</u>	<u>Comments</u>
	<u>Between</u>		<u>Unit</u>				
1	Between	1, 2	Seconds	n/a		2	Depends on amount of loads that day
2	Between	3, 4	Seconds	n/a		3	Depends on requests
3	Between	4, 5	Seconds	n/a		1.5	

	Volume Information					
<u>#</u>	Step #	<u>Unit of</u>	<u>Minimum</u>	<u>Average</u>	<u>Maximum</u>	<u>Comments</u>
		<u>Measure</u>				
1	2	Bytes	0	1k		Estimated with size of API json
2	3	Bytes	0	1k		Depends on what filters/sorts used

Scenario 40

Operator Clicks "Weight Sheet" button.

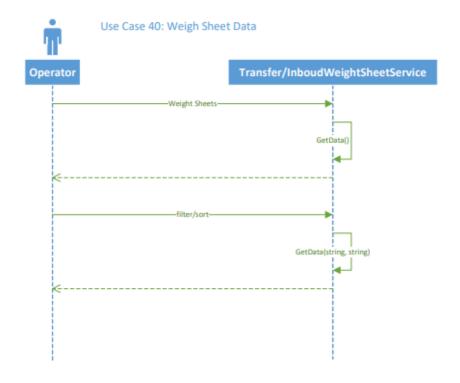
System displays Weight Sheet page.

Operator filters/sorts data.

WeightSheetService gets updated IApiResult.

System updates page to match operator selected filters and/or sorts

Operator clicks "Overview" button.



Use Case 40a: Edit Weight Sheet Data

Alternate Course General Info	mation	
Alternate Course Name\Number: 40a		
Description: Edit Weight Sheet Data		
Reason for Execution: Update needed due to bad or incomplete data	Non Exception: ⊠	Exception:

Insertion Point
Step Inserted After
2

	Pre-Conditions				
1.	Weight Sheet data exists in the data base				
2.	Default display is data from "today's date"				

	Alternate Course Steps					
#	Step Description	Adds Use Case #	Business Rule(s)#			
1.	Operator selects a data field and modifies it		3, 4 mandatory /optional			
2.	System updates the data shown to operator's input		7 sanitize			
3.	Operator navigates away from Weight Sheets page					

Post-Conditions				
1.	Valid data has been updated in the database			
2.	New data shows on the overview screen			

Scenario 40a

Operator selects a data field and modifies it.

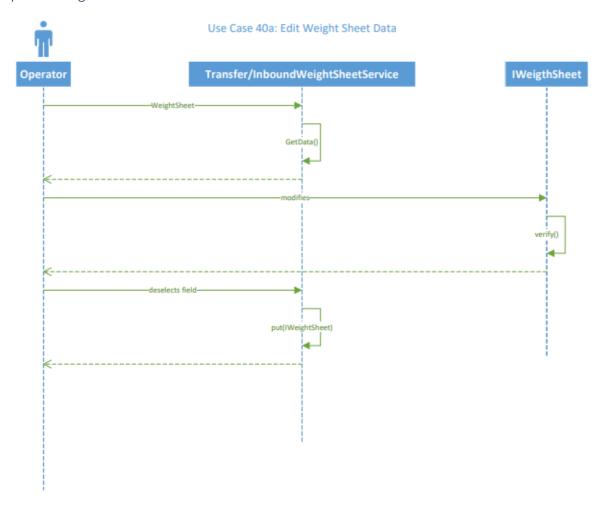
IWeightSheet verifies data modifications.

System updates the data shown to operator's input.

Transfer/InboundWeightSheetService puts data.

Operator navigates away from Weight Sheet page.

Sequence Diagram 40a



Use Case 50: Lot Data Interactions

General Information				
Use Case Name\Number: 50	Responsible Analyst : Micah Gordon			
Subject Area: Operator data interactions				
Description: Operator views Lots for warehouse				

	Requirements/Feature Trace			
REQ#	Requirements Name and / or Short Description			
4.1	Lot data is viewable, filterable and sortable			
1.3-1.5	Lot data is editable			

Revision History				
<u>Author</u>	<u>Date</u>	<u>Comments</u>		
Micah Gordon	10/24/23	Initial Draft		

Insertion Points in other Use Cases (Adds Only)						
Use Case Name	<u>Use Case Number</u>	Step Inserted After				
N/A	N/A	N/A				

Actors						
Actor Name	Person/System	Brief Description				
Operator	Person	Individual operating scale and application				

Pre-Conditions

#	Description
1	Lot data exists in database

Start Stimulus

Operator clicks "Lots" button

	Use Case Main Course Steps								
Number	<u>Description</u>	Adds/Alt Name/Number	<u>Bus Rule#</u>						
1	Operator clicks "Lots" button								
2	System displays Lots Page	50a							
3	Operator filters/sorts data								
4	System updates page to match operators filters and/or sorts								
5	Operator clicks "Overview" button								

Exception Conditions						
Exception Situations	Action(s) on Exception	Adds\Alt UC #				
N/A	N/A	N/A				

	Post-Conditions						
<u>#</u>	<u>Description</u>						
1	Lots page is consistent with interactions the operator has made.						
2	Lots page is reset to default filters and sorts when operator navigates away.						

Candidate Objects							
Class/Object Name	<u>Descriptions</u>	<u>Possible</u> <u>attributes</u>					
N/A	N/A	N/A					

	Assumptions							
# Assumption Date Raised Date Verifie								
	Raised By Verified							
1	There is data in the database	10/24/23	Micah Gordon					

	Issues								
<u>#</u>	<u>Fig. 1 Saue Date Raised Date Verified By</u>								
	Raised By <u>Verified</u>								
	N/A	N/A	N/A	N/A	N/A				

Other Comments							
<u>Author</u>	Comment	<u>Date</u>					
Micah Gordon	By default the loads pages should only display "today's date" loads	10/24/23					
Micah Gordon	For possible objects Ref Use Case: 10	10/24/23					
Micah Gordon	Filter and sort options can be found in Functional Requirements 4.1.2 – 4.1.3	10/24/23					

	Frequency of Execution						
Frequency:	Minir	num:	Maximum:		Average:	50	(OR)Fixed:
Per:	Hour:	Day: 🛚	Week: ☐ Month: ☐		Other:		

	Timing Information									
<u>#</u>	At/	<u>Comments</u>								
	<u>Between</u>		<u>Unit</u>							
1	Between	1, 2	Seconds	n/a		2	Depends on amount of weight sheets that day			
2	Between	3, 4	Seconds	n/a		3	Depends on requests			
3	Between	4, 5	Seconds	n/a		1.5				

	Volume Information						
# Step # Unit of Minimum Average Maximum Comments				<u>Comments</u>			
		<u>Measure</u>					
1	2	Bytes	0	1k		Estimated with size of api jsons	
2	3	Bytes	0	1k		Depends on what filters/sorts used	

Scenario 50

Operator clicks "Lots" button.

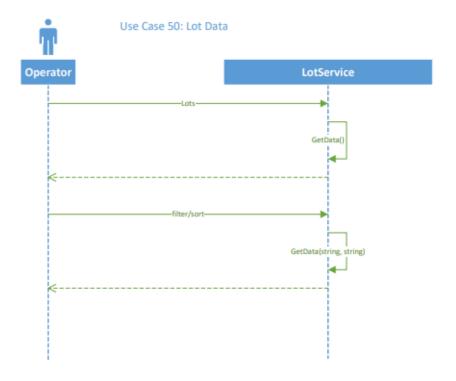
System displays Lots page.

Operator filters/sorts data.

System updates page to match operators filters and/or sorts.

LotService gets updated IApiResult

Operator clicks "Overview" button.



Use Case 50a: Edit Lot Data

Alternate Course General Information					
Alternate Course Name\Number: 50a					
Description: Edit Lot Data					
Reason for Execution: Update needed due to bad or incomplete data Non Exception: E	Exception:				
Insertion Point					
Step Inserted After					
2					
Pre-Conditions					
Load data exists in the data base					
2. Default display is data from "today's date"					

	Alternate Course Steps					
<u>#</u>	Step Description	Adds Use Case #	Business Rule(s)#			
1.	Operator selects a data field and modifies it		5 mandatory / optional			
2.	System updated the data shown to operator's input		7 sanitize			
3.	Operator navigates away from Lots page					

	Post-Conditions			
Ī	1.	Valid data has been updated in the database.		
ſ	2.	New data shows on the overview screen		

Scenario 50a

Operator selects a data field and modifies it.

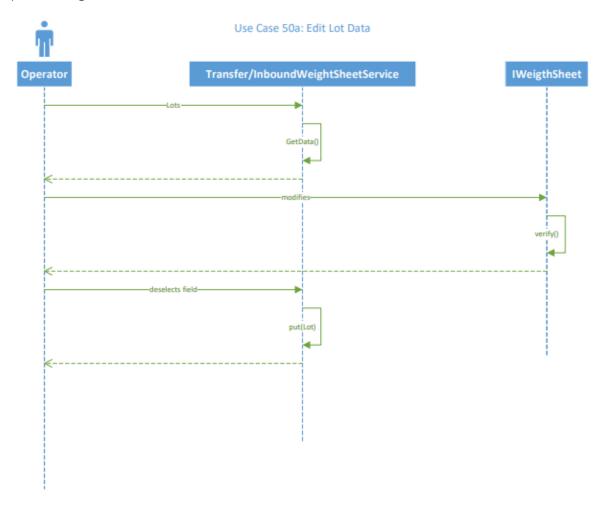
Lot verifies data.

System updates the data shown to match operator's input.

LotService puts data.

Operator navigates away from Lots page.

Sequence Diagram 50a



Use Case 60: Close Weight Sheet

General Information			
Use Case Name\Number: 60	Responsible Analyst : Micah Gordon		
Subject Area: Weight Sheet Behavior			
Description : Operator is required to close a weight sheet.			

Requirements/Feature Trace			
REQ#	Requirements Name and / or Short Description		
2.5-2.6	Close a weight sheet		

Revision History					
<u>Author</u>	<u>Date</u>	<u>Comments</u>			
Micah Gordon	10/24/23	Initial Draft			

Insertion Points in other Use Cases (Adds Only)				
<u>Use Case Name</u>	<u>Use Case Number</u>	Step Inserted After		
N/A	N/A	N/A		

Actors				
Actor Name	Person/System	Brief Description		
Operator	Person	Individual operating scale and application		

	Pre-Conditions		
#	Description		
1	Must have an existing inbound or transfer weight sheet.		

Start Stimulus

1 Operator clicks "Weight Sheets" button

Use Case Main Course Steps					
<u>Number</u>	<u>Description</u>	Adds/Alt Name/Number	Bus Rule#		
1	Operator clicks "Weight Sheets" button				
2	System displays Weight Sheets page				
3	Operator selects a weight sheet				
4	System displays a pop out view of weight sheet				
5	Operator clicks "Close Weight Sheet"				
6	System prompts Operator to confirm				
7	Operator confirms clicks "yes"	60a			
8	System displays Overview		8 remove from active		

Exception Conditions				
Exception Situations	Action(s) on Exception	Adds\Alt UC #		
Weight sheet closed in error	Operator re-opens weight sheet	60a		

	Post-Conditions					
<u>#</u>	<u>Description</u>					
1	Closed weight sheet is marked as closed in the databsae					
2	Closed weight sheet is removed from overview page					

	Candidate Objects					
<u>Class/Object</u> <u>Descriptions</u> <u>Possible</u> <u>Name</u> <u>attributes</u>						
N/A	N/A	N/A				

	Assumptions						
<u>#</u>	# Assumption Date Raised Date Verified By						
	Raised By Verified						
	N/A/	N/A/	N/A	N/A	N/A		

	Issues						
<u>#</u>	<u>Issue</u>	<u>Date</u>	Raised	<u>Date</u>	Verified By		
		Raised	<u>By</u>	<u>Verified</u>			
	N/A	N/A	N/A	N/A	N/A		

Other Comments							
<u>Author</u>	Comment	<u>Date</u>					
Micah Gordon	Closing a different types a of weight sheets has no effect. BUT closing a inbound will not close the lot. Lots contain many weight sheets	10/24/23					
Micah Gordon	For possible objects Ref Use Case: 10	10/24/23					

	Frequency of Execution					
Frequency:	Minir	mum:	Maxii	mum: 1	Average:	(OR)Fixed:
Per:	Hour:	Day: 🗌	Week: □	Month:	Other: weight sheet	

	Timing Information								
<u>#</u>	At/	Step(s)	Timing	<u>Minimum</u>	<u>Average</u>	<u>Maximum</u>	<u>Comments</u>		
	<u>Between</u>		<u>Unit</u>						
1	Between	1, 2	Seconds	n/a		1.5			
2	Between	3, 4	Seconds	n/a		1.5			
3	Between	7, 8	Seconds	n/a		2	More processing needed		

	Volume Information								
<u>#</u>	# Step # Unit of Minimum Average Maximum Comments								
	<u>Measure</u>								
1	7	Bytes	1			Request to updated database weight sheet is closed			

Scenario 60

Operator Clicks "Weight Sheets" button.

System displays Weight Sheet page.

Operator selects a weight sheet.

System displays a pop out view of the weight sheet.

Operator clicks "Close Weight Sheet".

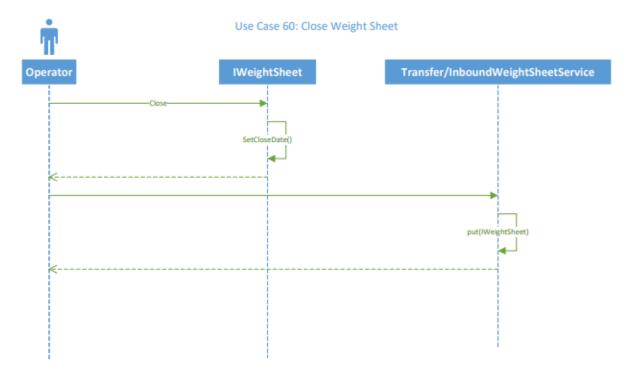
Transfer/InboundWeightSheet sets closed date.

System prompts Operator to confirm.

Operator confirms. Clicks "Yes".

Transfer/InboundWeigthSheetService puts data in data base.

System displays Overview.



Use Case 60a: Re-Open Weight Sheet

Overview page displays the weight sheet as active again

Database is updated to show the weight sheet is open

030	Alternate Course General Information						
٨١٠							
	Alternate Course Name\Number: 60a						
Des	cription: Re open weight sheet						
Reas	son for Execution: Weight sheet was not supposed to be	e close by Operator Non Excep	tion: Exception: Exception:				
	Insertic	on Point					
	o Inserted After						
7							
	Pre-Conditions						
1.	Weight sheet is closed						
	Alternate C	ourse Steps					
<u>#</u>	Step Description	Adds Use Case #	Business Rule(s)#				
1.	Operator clicks "Weight Sheet"						
2.	System Displays "Weight Sheets" page						
3.	Operator selects the closed weight sheet						
4.	4. System displays weight sheet popout						
5.	5. Operator clicks "Re-Open"						
6	6 System displays Overview page						
Post-Conditions							

Scenario 60a

Operator clicks "Weight Sheet".

System Displays "Weight Sheet" pages.

Operator selects the closed weight sheet.

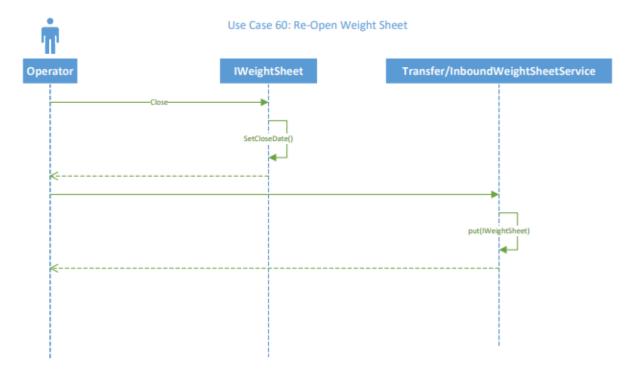
System displays weight sheet popout.

Operator clicks "Re-Open".

Transfer/InboundWeightSheet sets date closed state to null. Transfer/InboundWeightSheetService puts data on database.

System displays Overview page.

Sequence Diagram 60a



Use Case 70: Close Lot

General Information						
Use Case Name\Number : 70	Responsible Analyst : Micah Gordon					
Subject Area: Lot Behavior						
Description : Operator is required to close a lot.						

	Requirements/Feature Trace					
REQ#	Requirements Name and / or Short Description					
1.4-1.5	Close a lot					

Revision History							
<u>Author</u>	<u>Date</u>	<u>Comments</u>					
Micah Gordon	10/24/23	Initial Draft					

Insertion Points in other Use Cases (Adds Only)							
<u>Use Case Name</u> <u>Use Case Number</u> <u>Step Inserted After</u>							
N/A	N/A	N/A					

Actors							
Actor Name Person/System Brief Description							
Operator	Person	Individual operating scale and application					

	Pre-Conditions
#	Description

Start Stimulus

Operator clicks "Lots" button

	Use Case Main Course Steps								
Number	<u>Description</u>	Adds/Alt Name/Number	Bus Rule#						
1	Operator clicks "Lots" button								
2	System displays Lots page								
3	Operator selects a Lots								
4	System displays a pop out view of Lots								
5	Operator clicks "Close Lots"								
6	System prompts Operator to confirm								
7	Operator confirms clicks "yes"	70a							
8	System displays Overview		8 remove from active						

Exception Conditions					
Exception Situations	Action(s) on Exception	Adds\Alt UC #			
Lot closed in error	Operator re-opens weight sheet	70a			

	Post-Conditions					
<u>#</u>	<u>Description</u>					
1	Closed lot is marked as closed in the database					
2	All weight sheets on the closed lot are closed as well					

Candidate Objects					
Class/Object Descriptions Possible Name attributes					
N/A	N/A	N/A			

	Assumptions								
#	# <u>Assumption</u> <u>Date</u> <u>Raised</u> <u>Date</u> <u>Verified By</u>								
	Raised By Verified								
	N/A	N/A	N/A	N/A	N/A				

	Issues									
<u>#</u>	# <u>Issue</u> <u>Date</u> <u>Raised</u> <u>Date</u> <u>Verified By</u>									
	Raised By Verified									
	N/A	N/A	N/A	NA	N/A					

Other Comments					
<u>Author</u>	Comment	<u>Date</u>			
Micah Gordon	For possible objects Ref Use Case: 10	10/24/23			

	Frequency of Execution						
Frequency:	Minir	num:	Maximum: 1		Average:	(OR)Fixed:	
Per:	Hour:	Day: 🗌	Week: □	Month:	Other: IOT		

	Timing Information								
<u>#</u>	# At/ Step(s) Timing Minimum Average Maximum Comments								
	<u>Between</u>		<u>Unit</u>						
1	Between	1, 2	Seconds	n/a		1.5			
2	Between	3, 4	Seconds	n/a		1.5			
3	Between	7, 8	Seconds	n/a		2	More processing needed		

	Volume Information								
#	Step #	<u>Unit of</u>	<u>Minimum</u>	<u>Average</u>	<u>Maximum</u>	<u>Comments</u>			
		<u>Measure</u>							
1	7	Bytes	1			Request to updated database weight sheet is closed			

Scenario 70

Operator Clicks "Lots" button.

System displays Lot page.

Operator selects a Lot.

System displays a pop out view of the Lot.

Operator clicks "Close Lot".

Lot sets closed date.

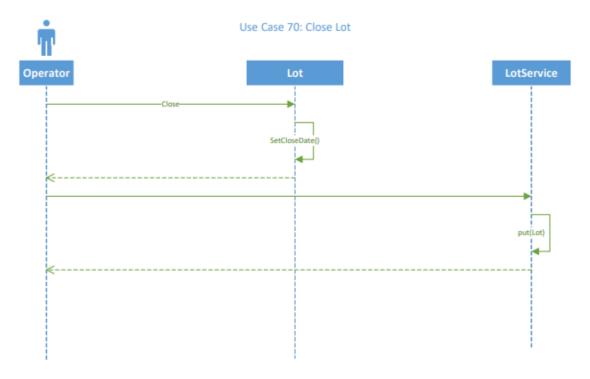
System prompts Operator to confirm.

Operator confirms. Clicks "Yes".

LotService puts data in data base.

System displays Overview.

Sequence Diagram 70



Use Case 70a: Re-Orpen Lot

Alternate Course General Information									
Alternate Course Name\Number: 70a									
Description: Re open lot									
Rea	Reason for Execution: Lot was not supposed to be close by Operator Non Exception: \square Exception: \square								
Insertion Point									
Step Inserted After									
7	7								
<u> </u>									
	Pre-Conditions								
1.	1. Lot was closed								
Alternate Course Steps									
#	Step Description	Adds Use Case #	Business Rule(s)#						
1.	Operator clicks "Lot"								
2.	System Displays "Lots" page								
3.	Operator selects the closed lot								
4.	System displays Lot popout								
5.	Operator clicks "Re-Open"								
6	System displays Overview page								
1		,							
Post-Conditions									
1.	Overview page displays the lot as active again								
2.	Database is updated to show the lot is open	Database is updated to show the lot is open							

Scenario 70a

Operator clicks "Lot".

System Displays "Lot" pages.

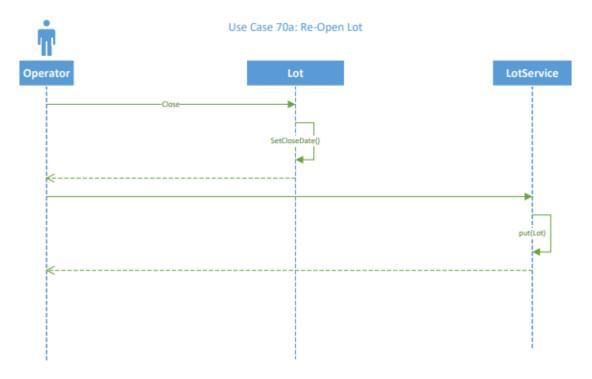
Operator selects the closed Lot.

System displays Lot popout.

Operator clicks "Re-Open".
Lot sets date closed state to null.
Lot Service puts data on database.

System displays Overview page.

Sequence Diagram 70a



Use Case 80: Move Inbound Weight Sheet

General Information			
Use Case Name\Number : 80	Responsible Analyst : Micah Gordon		
Subject Area : Corrections			
Description: Operator can move an inbound weight sheet from one lot to another			

Requirements/Feature Trace				
REQ#	REQ# Requirements Name and / or Short Description			
2.4	Move Weight Sheet			

Revision History					
<u>Author</u> <u>Date</u> <u>Comments</u>					
Micah Gordon	10/24/23	Initial Draft			

Insertion Points in other Use Cases (Adds Only)					
<u>Use Case Name</u> <u>Use Case Number</u> <u>Step Inserted After</u>					
N/A	N/A	N/A			

Actors				
Actor Name Person/System Brief Description				
Operator	Person	Individual operating scale and application		

	Pre-Conditions Pre-Conditions		
#	Description		
1	Two Lots open lots exist.		
2	Weight sheet type is Inbound		
3	Overview screen displayed		

Start Stimulus

Operator selects a weight sheet from the overview table

	Use Case Main Course Steps					
Number	<u>Description</u>	Adds/Alt Name/Number	Bus Rule#			
1	Operator selects an inbound weight sheet					
2	System Displays weight sheet details pop out window					
3	Operator clicks "Move" button					
4	System Displays table of lots					
5	Operator selects a lot to move the weight sheet to					
6	Operator selects "Move"					
7	System Displays Confirm message					
8	Operator clicks "Yes"					
9	System displays Overview screen with weight sheet on different lot					

Exception Conditions			
Exception Situations Action(s) on Exception Adds\Alt UC #			
N/A	NA/	N/A	

	Post-Conditions			
#	# Description			
1	Weight sheet removed for original lot			
2	Weight sheet is added to selected lot			
3	Database is updated with change			

Candidate Objects					
Class/Object Name					
<u>attributes</u>					
N/A	N/A	N/A			

	Assumptions						
<u>#</u>	# Assumption Date Raised Date Verified By						
		Raised	<u>By</u>	<u>Verified</u>			
	N/A	N/A	N/A	N/A	N/A		

	Issues					
<u>#</u>	# Issue Date Raised Date Verified By					
		<u>Raised</u>	<u>By</u>	<u>Verified</u>		
	N/A	N/A	N/A	N/A	N/A	

Other Comments			
<u>Author</u>	<u>Comment</u>	<u>Date</u>	
N/A	N/A	N/A	

	Frequency of Execution					
Frequency:	Mini	mum: 0	Ma	eximum: 100	Average:	(OR)Fixed:
Per:	Hour:	Day: 🛛	Week: □	Month:	Other:	

	Timing Information						
#	At/	Step(s)	<u>Timing</u>	<u>Minimum</u>	<u>Average</u>	<u>Maximum</u>	<u>Comments</u>
	<u>Between</u>		<u>Unit</u>				
1	Between	1, 2	Seconds	N/A		1.5	
2	Between	3, 4	Seconds	N/A		1.5	
3	Between	6, 7	Seconds	N/A		.5	
4	Between	8, 9	Seconds	N/A		1	

	Volume Information					
<u>#</u>	Step #	<u>Unit of</u>	<u>Minimum</u>	<u>Average</u>	<u>Maximum</u>	<u>Comments</u>
		<u>Measure</u>				
1	8	Bytes	5			S.W.A.G.

Scenario 80

Operator selects an Inbound Weight Sheet.

InboundWeightSheetService gets weight sheet.

System displays Weight Sheet details pop up window.

Operator clicks "Move" button.

System Displays table of lots.

LotService gets all lots.

Operator selects a lot to move the weight sheet to.

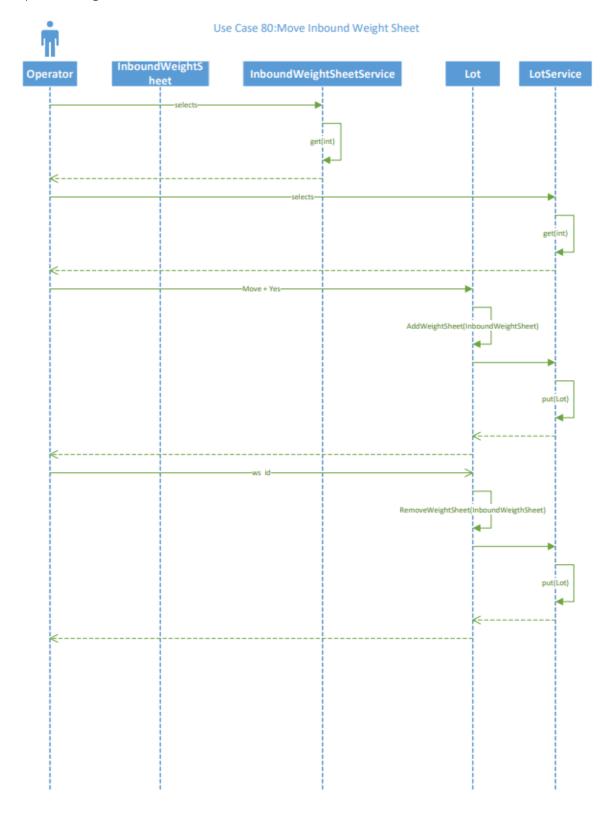
Operator selects "Move".

System displays confirm message.

Operator clicks "yes".

InboundWeightSheet moves to different lot.
Original lot removes weight sheet from its list.
Updates data base using LotService
InboundWeightSheetService sends to database.
LotServices sends to database.

System displays Overview screen with weight on sheet on different lot.



Use Case 90: Move Load

General Information			
Use Case Name\Number : 90	Responsible Analyst : Micah Gordon		
Subject Area: Corrections			
Description : Operator can move an load from one weight sheet to another			

Requirements/Feature Trace			
REQ#	Requirements Name and / or Short Description		
3.11	Move Load		

Revision History			
<u>Author</u>	<u>Date</u>	<u>Comments</u>	
Micah Gordon	10/25/23	Initial Draft	

Insertion Points in other Use Cases (Adds Only)			
<u>Use Case Name</u>	<u>Use Case Number</u>	Step Inserted After	
N/A	N/A	N/A	

Actors			
Actor Name	Person/System	Brief Description	
Operator	Person	Individual operating scale and application	

	Pre-Conditions
#	Description
1	At least two open weight sheets
2	Overview screen displayed

Start Stimulus

Operator selects a weight sheet form the overview table

	Use Case Main Course Steps				
Number	<u>Description</u>	Adds/Alt Name/Number	Bus Rule#		
1	Operator selects a weight sheet				
2	System displays weight sheet details pop up window				
3	Operator selects a load on the weight sheet				
4	System displays load pop up window				
5	Operator clicks move				
6	System displays weight sheet table				
7	Operator clicks move				
8	System prompts for confirmation				
9	Operator confirms				
10	System displays overview screen				

Exception Conditions		
Exception Situations	Action(s) on Exception	Adds\Alt UC #
N/A	N/A	N/A

	Post-Conditions						
<u>#</u>	<u>Description</u>						
1	Load is removed from original weight sheet						
2	Load is added to selected weight sheet						
3	Database is updated with change						

Candidate Objects							
<u>Class/Object</u> <u>Descriptions</u> <u>Possible</u>							
<u>Name</u>		<u>attributes</u>					
N/A	N/A	N/A					

Assumptions									
<u>#</u>	# Assumption Date Raised Date Verified By								
		Raised	<u>By</u>	<u>Verified</u>					
	N/A	N/A	N/A	N/A	N/A				

Issues								
#	# Issue Date Raised Date Verified							
		Raised	<u>By</u>	<u>Verified</u>				
	N/A	N/A	N/A	N/A	N/A			

Other Comments						
<u>Author</u>	<u>Comment</u>	<u>Date</u>				
N/A	N/A	N/A				

	Frequency of Execution								
Frequency:	Minimum: 0		Maximum:		Average: 100	(OR)Fixed:			
Per:	Hour:	Day: 🛛	Week: □	Month:	Other:				

	Timing Information										
<u>#</u>	At/	Step(s)	<u>Timing</u>	<u>Minimum</u>	<u>Average</u>	<u>Maximum</u>	<u>Comments</u>				
	<u>Between</u>		<u>Unit</u>								
1	Between	1, 2	Seconds	N/A		1.5					
2	Between	3, 4	Seconds	N/A		1.5					
3	Between	5, 6	Seconds	N/A		1.5					
4	Between	7, 8	Seconds	N/A		1					
5	Between	9, 10	Seconds	N/A		1.5					

	Volume Information									
<u>#</u>	# Step # Unit of Minimum Average Maximum Comments									
		<u>Measure</u>								
1	9	Bytes	5			S.W.A.G.				

Scenario 90

Operator selects a weight sheet.

Transfer/InboundWeightSheetService gets weight sheet.

System displays weight sheet details pop up window.

Operator selects a load on the weight sheet.

LoadService retrives load.

System displays load pop up window.

Operator clicks move.

System displays weight sheet table.

Operator clicks move.

System prompts for confirmation.

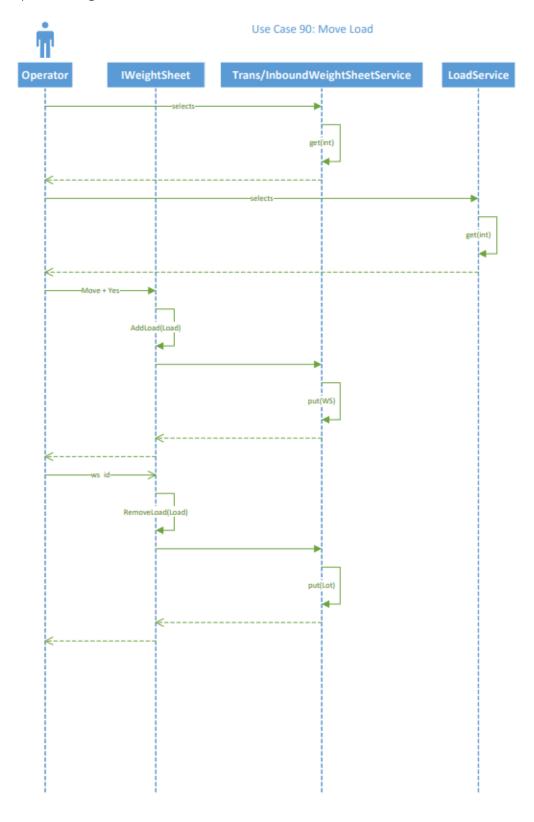
Operator confirms.

Load moves to a different IWeightSheet.

Load removed from original IWeightSheet.

Transfer/InboundWeightSheetService sends to database.

System displays overview screen.



Crud matrix

CRUD Matrix

Use Case ID	Use Case Name	Bin	CommodityService	Commodity	CommodityType
10	New Load	U	RC	R	RC
20	Reports	R		R	
30	Load data view, edit, sort, filter				
40	Weight sheet data view, edit, sort, filter	R	RC	R	RC
50	Lot data view, edit, sort, filter				
60	Close/Reopen weight sheet				
70	Close/Reopen				
80	Move Weight Sheet				
90	Move Lot				

Use Case ID	Use Case Name	District	DistrictService	IApiResult	InboundWeightSheet
10	New Load				С

20	Reports	R	RC	
30	Load data view, edit, sort, filter			CRU
40	Weight sheet data view, edit, sort, filter			CRU
50	Lot data view, edit, sort, filter			CRU
60	Close/Reopen weight sheet			U
70	Close/Reopen Lot			U
80	Move Weight Sheet			U
90	Move Lot			

Use Case ID	Use Case Name	InboundWeightSheet Service	IService	Load	Lot	LotService
10	New Load	U		С		
20	Reports	R		R	R	R
30	Load data view, edit, sort, filter	RU		RU		
40	Weight sheet data view, edit, sort, filter	RU				
50	Lot data view, edit, sort, filter				RU	CRU
60	Close/Reopen weight sheet	U				
70	Close/Reopen Lot				U	CR

80	Move Weight Sheet	U		U	CR
90	Move Lot			U	CR

Use	Use Case	Producer	TransferWeightSheet	TransferWeightSheetService
Case ID	Name			
10	New Load		U	CU
20	Reports	R	R	CR
30	Load data view, edit, sort, filter			
40	Weight sheet data view, edit, sort, filter		RU	CR
50	Lot data view, edit, sort, filter	R		
60	Close/Reopen weight sheet		RU	CR
70	Close/Reopen Lot			
80	Move Weight Sheet		U	CR
90	Move Lot			

Use	Use Case Name	Warehouse	WarehouseService
Case ID			
10	New Load	U	CR
20	Reports	R	CR
30	Load data view, edit, sort, filter		

40	Weight sheet data view, edit, sort, filter	
50	Lot data view, edit, sort, filter	
60	Close/Reopen weight sheet	
70	Close/Reopen Lot	
80	Move Weight Sheet	
90	Move Lot	

Low Fidelity Ui

	Overview		Loads	Weight Sh	Weight Sheets		Repo	Reports	
Overview			New Load						
Lot Type	Total Loads	In Yard	Source/Producer	Weight Sheet Id	Commodity Type	Commodity Variety	Notes	Lot Id	
Inbound	3	1	A Farmer down the road	1412561234	SWH White Wheat	N/A		<u>4651651615</u>	
Transfer	4	0	WW Seed Plant	1412524980	RHW Hard Red Winter	N/A	Mixed	N/A	

	Overview		Load	ds	V	/eight Sh	eets		Lots		Reports	
Loa	ds											
Load Id	Truck Id	Gross (lbs)	Tare (lbs)	Net (lbs)	Time in	Time out	Bol	Bin	Moisture	Test Weight	Protein	Notes
265465136	300	105,000	37,000	68,000	08:05	08:09	158115	GP	10.2	60.5	9.5	
115687468	412H	148,000	0	0	15:05		N/A	214	N/A	58.4	11.9	FTSP
<u>115687468</u>	412H	148,000	0	0	15:05		N/A	214	N/A	58.4	11.9	FTSP

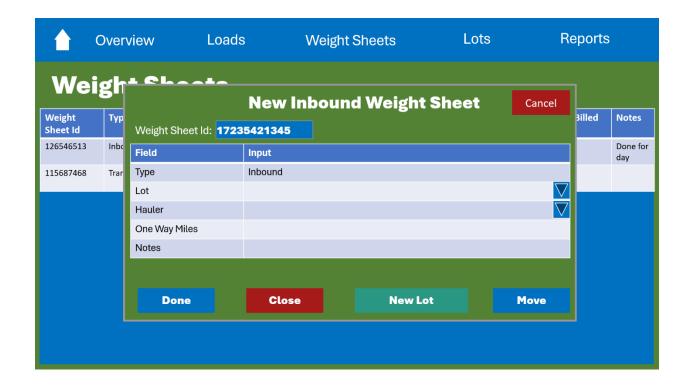
1	Overview		Loads	Loads Weight Sheets		Lots		Reports	
We	ight	She	eets						
Weight Sheet Id	Туре	Total Loads	Source/Producer	Commodity Type	Commodity Variety	Hauler	Miles	Billed	Notes
126546513	Inbound	2	A Farmer Down the Road	SWH Soft White Wheat					Done for day
115687468	Transfer	5	WW Seed Plant	HRW Hard Red Winter					

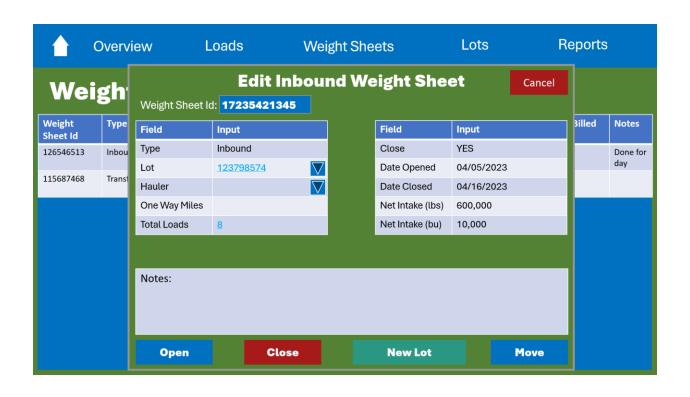
	Overview Lo		ads Weight Sheets		Lots		Reports		
Lots									
Lot Id	Source	Commodity Type	Commodity Variety	Active Weight Sheets	Total Weight Sheets	Open Date	Close Date	Landlord	Farm Numbe
0117234515	300	105,000	37,000	68,000	08:05	08:09	158115	GP	10.2
0117234516	412H	148,000	0	0	15:05		N/A	214	N/A
0117234516	412H	148,000	0	0	15:05		N/A	214	N/A
∢									•

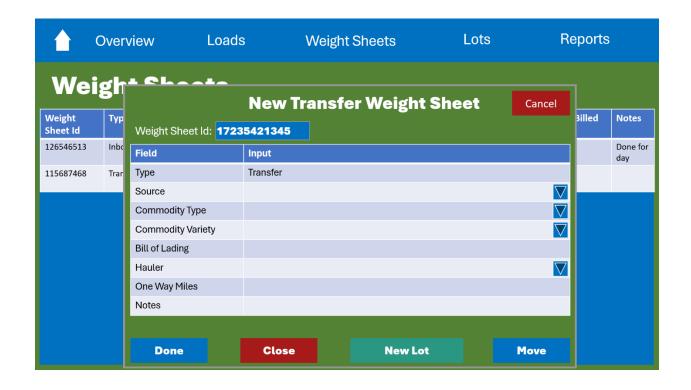


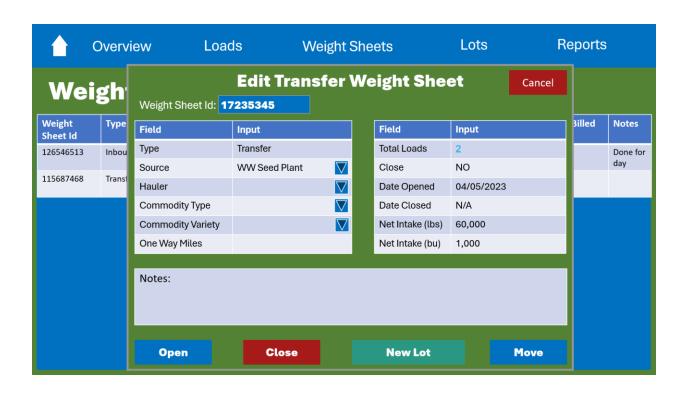


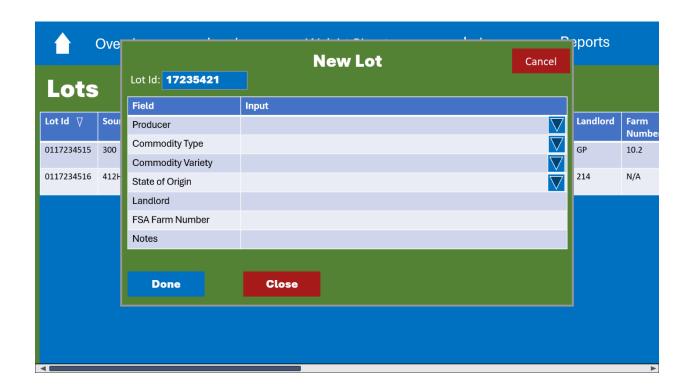














Glossary

Appendix A. Business Rules

- 1. New Load mandatory versus optional data
 - a. Mandatory
 - i. Truck Identifier
 - b. Optional
 - i. Destination Bin
 - ii. Test weight
 - iii. Moisture
 - iv. Protein
 - v. Bill of lading number
 - vi. Notes
- 2. Calculating tare and net weights. Net = gross tare. Net is the weight of the product unload. Gross is the weight of the truck plus commodity before unloading. Tare is the weight of the truck after it has been unloaded.
- 3. New Transfer Weight Sheet mandatory versus optional data
 - a. Mandatory
 - i. Source
 - ii. Commodity Type
 - b. Optional
 - i. Commodity Variety
 - ii. Bill of Lading
 - iii. Hauler
 - iv. One Way Miles
 - v. Notes
- 4. New Inbound Weight Sheet mandatory versus optional data
 - a. Mandatory
 - i. Lot
 - b. Optional
 - i. Bill of Lading
 - ii. Hauler
 - iii. One Way Miles
 - iv. Notes
- 5. New Lot mandatory versus optional data
 - a. Mandatory
 - i. Producer
 - ii. Sate of Origin
 - iii. Commodity Type
 - b. Optional
 - i. Commodity Verity
 - ii. Landlord
 - iii. FSA Farm Number
 - iv. Notes
- 6. Report types

- a. Operator has the option of choosing one or more reports
 - i. Intake
 - ii. Transfer
 - iii. Daily Weight Sheet
 - iv. Daily Commodity
 - v. Producer Commodity Delivery
- 7. Operator can't remove mandatory data. Scrub for SQL injection.
- 8. If closed, update database. Re query database and update model and view.