7. Requirements Database: ICE TRACK

	Requirement ID	Requirement	Requirement Type	Subsystem	Importance	Jira Issue	Test ID	Qualification Methods	Notes
1	1.1.1	Gui design is based on a system of multiple movable and resizable windows	Functional	General	LOW	https://tylercallison.atlassian.net/browse/NS-21		Demonstration and inspection	
2	1.1.2	roles/privileges shall be implemented to limit the actions that users can make as well as limiting the data they can access	Functional	General	HIGH	https://tylercallison.atlassian.net/browse/NS-19		Test	
3	1.1.3	All transactions shall be logged and labeled with the user's name as well as the date and time of the action	Functional	General	LOW	https://tylercallison.atlassian.net/browse/NS-20		Test	
4	1.1.4	If the user idles for 5 minutes system will auto logout the user	Functional	General	LOW	https://tylercallison.atlassian.net/browse/NS-27		Test	
5	1.1.5	Validation of Inputs	Functional	General		https://tylercallison.atlassian.net/browse/NS-26		Demonstration and inspection	
6	1.2.1	Data Structure	Non-Functional	General	HIGH	https://tylercallison.atlassian.net/browse/NS-28		Inspection	to be worked on
7	1.1.6	Shall allow for users to search for names within the system using the standard wildcard characters	Functional	General	LOW	https://tylercallison.atlassian.net/browse/NS-25		Test	
8	1.1.7	User shall be able to print any display presented and shall also be able to previewed before the user prints (basically control + p)	Functional	General	LOW	https://tylercallison.atlassian.net/browse/NS-22		Demonstration	• Printable reports shall be available to the user as a whole as well as in parts

9	5.1.1	Users shall be provided with an online help function	Functional	Trouble Ticket Management	LOW	https://tylercallison.atlassian.net/browse/NS-24		Demonstration	• Shall be context sensitive
									• Provide detailed answers to most questions
									• Includes help for
									  • overall system functions
									  • transcription descriptions
									  • screen/window descriptions
									  • data fields
									• Module/Screen based help (hints/helpful tips on the functions and such on each module or screen)
									• While the cursor hovers over a data field the user will be given the requirements of said field (ex: if field is mandatory)

10	1.1.8	System shall be menu driven	Functional	General	MEDIUM	https://tylercallison.atlassian.net/browse/NS-23		Test	• Standard movement within the system will be screen to screen without having to return to a main menu • User shall be able to access any module with ease via minimal sub-menuing
11	1.1.9	If error occurs when entering information users will be prompted with error messages	Functional	General	LOW	https://tylercallison.atlassian.net/browse/NS-31		Demonstration and inspection	• Reason for rejection of info • Refers to the minimum requirements for that specific entry field
12	1.1.10	Users shall be able to return to already processed information and are able to add optional information as well as make modifications to prior information	Functional	General	MEDIUM	https://tylercallison.atlassian.net/browse/NS-29		Demonstration and inspection	• Shall not allow the user to modify previous information that create inconsistent conditions • Ex: "changing the ship address after the product has already shipped"
13	1.1.11	At any time, users shall be able to cancel actions before the completion of that action	Functional	General	LOW	https://tylercallison.atlassian.net/browse/NS-36		Demonstration	
14	1.2.2	Application should respond within 5 seconds	Non-functional	General	MEDIUM	https://tylercallison.atlassian.net/browse/NS-34		Test	
15	1.2.3	System should be able to support multiple users, simultaneously	Non-functional	General	HIGH			Test	
16	1.2.4	Database must be accessible over LAN	Non-functional	General	HIGH			Demonstration and inspection	
17	1.2.5	Security should be object-based	Non-functional	General	HIGH	https://tylercallison.atlassian.net/browse/NS-32		Inspection	https://www.ibm.com/docs/en/cognos-analytics/11.1.0?topic=security-object
18	1.2.6	System shall allow for users to input hyphenated names in any name section(first,middle, last)	Non-functional	General	LOW	https://tylercallison.atlassian.net/browse/NS-35		Test	
19	1.2.7	information maintained by the system shall only have to be entered once	Non-functional	General	HIGH	https://tylercallison.atlassian.net/browse/NS-37		Inspection	
20	1.2.8	Must be modular and allow be additions, upgrades or replacements of modules in future builds	Non-functional	General	HIGH	https://tylercallison.atlassian.net/browse/NS-40		Inspection	
21	1.2.9	Processing Block Until Error Corrected	Non-functional	General	MEDIUM	https://tylercallison.atlassian.net/browse/NS-43		Test	
22	1.2.10	The system shall be able to restore user information to its previous state after an action is taken	Non-functional	General		https://tylercallison.atlassian.net/browse/NS-41		Test	• backtracking/before making a change the whole system is backed up
23	2.1.1	System shall maintain customer information	Functional	Order Entry	MEDIUM	https://tylercallison.atlassian.net/browse/NS-39		Inspection	• customer name • shipping address • billing address • customer status (prefered, ok, shaky)
24	2.1.2	Products list and size of products shall be able to be maintained/modified by an administrator	Functional	Order Entry	MEDIUM	https://tylercallison.atlassian.net/browse/NS-44		Inspection	

#	ID	Requirement	Type	Subsystem	Priority	Link		Method	Notes
25	2.1.3	System shall check inventory to determine the availability of an item	Functional	Order Entry	HIGH	https://tylercallison.atlassian.net/browse/NS-46		Test	• If the amount in not available then a message will display saying out of stock and when it is expected to be back in stock
26	2.1.4	System shall reserve the desired inventory	Functional	Order Entry	HIGH	https://tylercallison.atlassian.net/browse/NS-51		Inspection	• If there is insufficient stock then the user will be able to send a message to the trouble ticket management subsystem, notifying that an order is not able to be taken because a certain item is out of stock
27	2.1.5	User shall be able to print out a copy of the order (invoice) that can be sent to the customer	Functional	Order Entry	MEDIUM	https://tylercallison.atlassian.net/browse/NS-30		Demonstration	• maybe set up some sort of email thing, keep it paperless?
28	2.1.6	User shall be able to enter into the system the dates of when payments for orders were received	Functional	Order Entry	MEDIUM	https://tylercallison.atlassian.net/browse/NS-33		Demonstration and test	

29	2.1.7	User shall be able to print out a report that contains all outstanding invoices	Functional	Order Entry		https://tylercallison.atlassian.net/browse/NS-38		Demonstration	• In order by customer name
									• Including
									  1. Amount on each invoice
									  2. Date payment is due
									  3. Number of days till overdue

30	2.2.1	System Order limitations	Non-functional	Order Entry	LOW	https://tylercallison.atlassian.net/browse/NS-42		Test	• Preferred customers have no limit on the order size • Ok customers are limited to $3000 of goods • Shaky customers are limited to $500 of goods

31	2.2.2	Order Form layout	Non-functional	Order Entry	HIGH	https://tylercallison.atlassian.net/browse/NS-49		Inspection	• Multiple entries (item lines) including
									  1. Flavor
									  2. Size
									  3. Quantity
									  4. Expected ship date
									  5. Cost of item line
									• Displays
									  1. Customer name
									  2. Shipping address
									  3. Billing address
									  4. Type of shipping that is desired by the customer
									  5. Desired receipt date
									  6. Shipping cost
									  7. Total cost of order

32	2.2.3	Cancellation/modification of an order that has shipped /partially shipped will result in the customer being billed for all of the shipping charges	Non-functional	Order Entry	HIGH	https://tylercallison.atlassian.net/browse/NS-45		Test	
33	3.1.1	Inventory tracking	Functional	Inventory Management	HIGH	https://tylercallison.atlassian.net/browse/NS-47		Inspection	• Shall track by flavor and size • Shall maintain a list of sizes that are supported by Tom and Adam's Ice Cream Company
34	3.1.2	Shall have a list of all available inventory	Functional	Inventory Management	HIGH	https://tylercallison.atlassian.net/browse/NS-48		Inspection	
35	3.1.3	Shall have a list of all inventory that is present but reserved for orders that have not been shipped	Functional	Inventory Management	HIGH	https://tylercallison.atlassian.net/browse/NS-50		Inspection	
36	3.1.4	Shall maintain a schedule for the incoming planned inventory products	Functional	Inventory Management	HIGH	https://tylercallison.atlassian.net/browse/NS-52		Inspection	
37	3.1.5	User shall be able to add products to the inventory	Functional	Inventory Management	HIGH	https://tylercallison.atlassian.net/browse/NS-54		Demonstration	
38	3.1.6	User shall be able to change the status of items that on the schedule of planned inventory from "planned" to "actual" inventory	Functional	Inventory Management	MEDIUM	https://tylercallison.atlassian.net/browse/NS-53		Inspection	
39	3.1.7	User shall be able to delete products from the inventory	Functional	Inventory Management	HIGH	https://tylercallison.atlassian.net/browse/NS-55		Demonstration	
40	3.1.8	System shall maintain a log of keeps track of what user adds or deletes from the inventory with each transaction	Functional	Inventory Management	LOW	https://tylercallison.atlassian.net/browse/NS-56		Inspection	
41	3.1.9	System shall maintain information on why an item was removed from the current inventory	Functional	Inventory Management	MEDIUM	https://tylercallison.atlassian.net/browse/NS-76		Inspection	• Shipped (including the order number) • Defective product • Product Spoilage
42	3.1.10	System shall send a notification to the trouble ticket management system each time an product is removed from the current inventory due to defect or spoilage	Functional	Inventory Management	LOW	https://tylercallison.atlassian.net/browse/NS-57		Inspection and Demonstration	
43	3.1.11	User shall be able to generate a report that shows the changes to the ice cream inventory over a specified period of time	Functional	Inventory Management	LOW	https://tylercallison.atlassian.net/browse/NS-60		Demonstration	• Week • Month • Year
44	4.1.1	System shall track the status of all shipments for Tom and Adam's Ice Cream	Functional	Shipment Tracking	MEDIUM	https://tylercallison.atlassian.net/browse/NS-58		Inspection	• Date order was shipped • Number of boxes associated with order • If the full order or partial order was shipped • Expected delivery date • Actual date order was delivered • Method of delivery

45	4.1.2	User shall be allowed to query shipment/s by	Functional	Shipment Tracking	MEDIUM	https://tylercallison.atlassian.net/browse/NS-62		Test	• Customer name • Destination • Address or city • Shipment date • Expected delivery date
46	4.1.3	System shall send notification to Trouble Ticket Management System when a package is reported lost or damaged	Functional	Shipment Tracking	LOW	https://tylercallison.atlassian.net/browse/NS-64		Test	
47	4.1.4	User shall be able to print out shipping status information reports that include;	Functional	Shipment Tracking	LOW	https://tylercallison.atlassian.net/browse/NS-65		Demonstration	• All active orders ready to ship • All active orders in the system that are in the shipment process but are not delivered yet • Summary of all product lost or damaged during a specified time period
48	4.2.1	Shipping methods shall be a user-maintained list including methods based on shipment location	Non-functional	Shipment Tracking	MEDIUM	https://tylercallison.atlassian.net/browse/NS-67		Inspection	

49	4.2.2	Authorized Shipping Vendors shall be a user-maintained listed that includes;	Non-functional	Shipment Tracking	MEDIUM	https://tylercallison.atlassian.net/browse/NS-68		Inspection	• Types shipping
									• Geographic region
									• Shipping rate
									• Vendor rating
									  1. Preferred
									  2. Ok
									  3. Poor

50	4.2.3	System shall maintain information on lost or damaged items including	Non-functional	Shipment Tracking	MEDIUM	https://tylercallison.atlassian.net/browse/NS-70		Inspection	• Identification of shipment packages • Problem with the package • The shipping vendor • Cost of lost or damaged package
51	4.2.4	System shall maintain shipping information on reshipped products due to being lost or damaged	Non-functional	Shipment Tracking	MEDIUM	https://tylercallison.atlassian.net/browse/NS-73		Inspection	
52	4.2.5	System shall keep shipping status information on shipments from at least the last 30 days after delivery is complete or payment is received, whichever is later	Non-functional	Shipment Tracking	MEDIUM	https://tylercallison.atlassian.net/browse/NS-75		Inspection and test	
53	5.1.2	System shall accept tickets from the order entry, inventory management and shipment tracking system and adds them to the problem tracking database	Functional	Trouble Ticket Management	LOW	https://tylercallison.atlassian.net/browse/NS-59		Inspection	
54	5.1.3	User shall be able to enter trouble ticket information manually into the problem tracking database	Functional	Trouble Ticket Management	MEDIUM	https://tylercallison.atlassian.net/browse/NS-61		Demonstration and Test	
55	5.1.4	User shall be able to query the problem tracking database by;	Functional	Trouble Ticket Management	MEDIUM	https://tylercallison.atlassian.net/browse/NS-71		Test	• Customer name • Type of problem • Problem status • Date problem reported • Date problem resolved
56	5.1.5	User shall be able to request a report that summarizes all open trouble tickets by problem type, date reported, or date closed	Functional	Trouble Ticket Management	LOW	https://tylercallison.atlassian.net/browse/NS-74		Demonstration	
57	5.1.6	User shall be able to request a statistical summary report, over a specified time, of;	Functional	Trouble Ticket Management	LOW	https://tylercallison.atlassian.net/browse/NS-72		Demonstration	• # of problems reported • Average time to close • Average # of open problems per day • Average # of problems being worked on per day
58	5.1.7	User shall be able to export trouble ticket information to a format that can be imported to a spreadsheet for further analysis and reporting	Functional	Trouble Ticket Management	LOW	https://tylercallison.atlassian.net/browse/NS-69		Demonstration	

59	5.2.1	Maintain information on Internal production/order fulfillment/shipping problems and customer-facing problems	Non-functional	Trouble Ticket Management	MEDIUM	https://tylercallison.atlassian.net/browse/NS-66		Inspection	• Internal production/order fulfillment/shipping problems
									  1. Date problem reported
									  2. Source: Name of user reporting problem or name of user associated with process reporting the problem
									  3. Date problem detected
									  4. Date problem resolved
									  5. Type of problem
									  6. Description of problem
									  7. Problem status (open, being worked, closed)
									  8. Problem resolution
									• Customer-facing problems
									  1. Date problem reported
									  2. Source: Name of customer reporting problem
									  3. Date problem detected
									  4. Date problem resolved
									  5. Type of problem
									  6. Description of problem
									  7. Problem status (open, being worked, closed)
									  8. Problem resolution

60	5.2.2	Typical Internal/Customer Problems shall be a user-maintained list, and will include typical issues as well as actions to take to resolve them	Non-functional	Trouble Ticket Management	LOW	https://tylercallison.atlassian.net/browse/NS-63		Demonstration and inspection	