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Use Case Name	Starting up the system	
Requirement Number	1.1	
Actors	User	
Parameters	None	
Preconditions	The machine has the latest version of the system     The machine has a stable connection	
Actions	The User runs the application	
Result	The User is appointed Guest and receives an empty Shoppi	ng cart
Data		Result
The User has no connection to the server Fail		Fail
The User has an older ve	ersion of the client	Fail

Use Case Name	Starting up the system – First Boot	
Requirement Number	1.1	
Actors	User	
Parameters	None	
Preconditions	1. The machine has the latest version of the system	
	2. The machine has a stable connection	
	3. First boot of the system	
Actions	1. The User runs the application.	
	2. The User enters the default admin username and password	
Result	Home page is shown and The User is appointed Guest and	receives an
	empty Shopping cart.	
Data	Data Result	
The User has no connection to the server Fail		Fail
The User has an older version of the client Fail		Fail

Use Case Name	Exiting the system	
Requirement Number	1.2	
Actors	User	
Parameters	None	
Preconditions	None	
Actions	The User closes the client application     If the User is logged in, the System runs logging out use case	
Result	None	
Data Result		Result
A Member is existing the System, his Shopping cart is reloaded Success		Success
A Guest is exiting the Sy	stem, his Shopping cart is discarded	Success

Use Case Name	Registering	
Requirement Number	1.3	
Actors	Guest	
Parameters	Username, Password	
Preconditions	The <i>Username</i> is not already known in the System	
Actions	<ol> <li>The User requests to register with some Username and Password</li> <li>The System Verifies the Password's security level and that the Username does not already exist</li> <li>If one of the previous verifications fails, the User is not registered and the System notifies the User</li> <li>Else, a new Member is registered in the System</li> </ol>	
Result	A new member can now be logged in to in the System	
Data	Data Result	
The User enters a Username that's already in use Fail		Fail
The User is trying to use an insecure password Fail		Fail
The User is using a unique	ue username with a secure password	Success

Use Case Name	Login	
<b>Requirement Number</b>	1.4	
Actors	Guest	
Parameters	Username, Password	
Preconditions	The requested user was registered in the system beforehand     The system has connection	
	1. Guest inputs Username and Password	
	2. If the Guest is already logged in the process is stopped at	nd an error
	message appears  3. The System verifies the <i>Username</i> , <i>Password</i> combination	
Actions	4. If the System doesn't recognize the combination the Guest is notified	
	with the appropriate error message	
	5. The System loads the Member's saved Shopping Cart and	d
	notifications	
Result	The Guest receives logged in status for the requested Member, and the	
nesuit	Shopping Cart receives earlier saved Products	
Data	Data Result	
The Username is unknown to the system Fail		Fail
The password is incorrect Fail		Fail
The username password combination is correct Success		Success

Use Case Name	Searching for a Store	
Requirement Number	2.1	
Actors	User	
Parameters	Store_name	
Preconditions	None	
Actions	1. User chooses "Search Store" option from the menu	
	2. User enters the name of the store he is searching for	
	3. The System presents the store with the name the user w	anted
Result	The System presents list of products (and prices) in the stor	re with an "add
	to cart" button under them	
Data	Data Result	
The User searches for a store that doesn't exist  Success		Success
The User searches for a specific known store Success		Success

Use Case Name	Searching for a Product	
Requirement Number	2.2	
Actors	User	
Parameters	Product_attributes	
Preconditions	None	
Actions	1. User chooses "Search Products" option from the menu	
	2. User requests a Product with specific attributes from the	System
	3. The System presents all Products from any Store, which	apply to those
	attributes	
Result	The system presents list of products (with prices), a quanti-	
	"add to cart" button and "place a bid" button under the list	
Data	Data Result	
The User is searching for a product that doesn't exist  Success		Success
The User is searching fo	r a product that exists	Success

Use Case Name	Adding a Product to the Shopping Cart	
Requirement Number	2.3	
Actors	User	
Parameters	Product	
Preconditions	<ol> <li>The Product is sold by some Store</li> <li>The User has a Shopping Cart</li> </ol>	
Actions	<ol> <li>The User finds a Product (either from use case 2.1 or 2.2)</li> <li>The User chooses a product</li> <li>The User presses the "add to cart" button with the product chosen</li> </ol>	
Result	The User's Shopping Cart receives the Product from the appropriate store	
Data Result		Result
The User is adding more of the product than the store has to offer Fail		Fail
The User is adding a product from a Store Success		Success
The User is adding a pro	duct found from searching a product	Success

Use Case Name	Inspecting Shopping Cart	
Requirement Number	2.4	
Actors	User	
Parameters	Username	
Preconditions	None	
Actions	User requests for his Shopping Cart     The System presents the Shopping Cart	
Result	A Shopping Cart is shown to the user with all the products in it	
Data Result		Result
The User is inspecting his shopping cart when it has no Products  Success		Success
The User is inspecting his shopping cart when it has 1 or more products  Success		

Use Case Name	Removing a Product from the Shopping Cart	
Requirement Number	2.4	
Actors	User	
Parameters	Product, Shopping_Cart	
Preconditions	Shopping_Cart has at least 1 Product	
Actions	1. The User inspects his shopping cart	
	2. The User chooses "remove <product name=""> from cart" be a specific product in his cart</product>	outton for
Result	Product is removed from shopping cart	
Data Result		Result
The User is attempting to remove a product from an empty cart Fail		Fail
The User is attempting t	o remove a product that exists in his shopping cart	Success

Use Case Name	Purchasing a Shopping Cart, with verified delivery and payr	nent
Requirement Number	2.5	
Actors	User	
Parameters	Shopping_Cart, Payment, Supplyment	
Preconditions	<ol> <li>The Shopping_Cart is not empty</li> <li>For every Product in the Shopping_Cart the Store which sells it has the amount of that Product that is listed in the Shopping_Cart</li> <li>The Supplyment and Payment succeeded</li> </ol>	
Actions	<ol> <li>The User requests from the System to buy his shopping cart with a specific Payment type and Supplier</li> <li>The System verifies the Payment</li> <li>The System verifies the Supplyment</li> <li>The System triggers the payment and supply, updates the Store with the amounts and triggers the purchase event on the notification bus</li> </ol>	
Result	The Purchase is completed, the relevant Members are notified and the relevant amounts on the Stores are updated	
Data	Data Result	
The User is attempting	to buy an empty shopping cart	Fail
The User is attempting to buy a shopping cart without selecting payment type or supplier  Fail		Fail
		Success

Use Case Name	Purchasing a Shopping Cart – cart validation	
Requirement Number	2.5	
Actors	User	
Parameters	ShoppingCart, PaymentInformation, SupplyingInformation	
Preconditions	-	
	1. The User requests from the System to buy his shopping cart	with
	his Payment information and Supplying information	
Actions	2. The System validates the User's current cart	
Actions	3. If the validation fails, the User is notified and the purchase	
	process stops without any changes in the System, if it succeeds the	
	purchase process continues ("External Systems" use cases)	
Result	The system will continue with the purchase process ("Purchasi	ng a
Result	Shopping Cart – External Payment System" use case)	
Data		Result
The User is attempting to buy a product from a closed store		Fail
The User is attempting to buy an empty cart		Fail
The User is attempting to buy a quantity larger than what the store has to offer		Fail
The User is attempting to buy a product when he isn't allowed by the purchase policy		Fail
None of the above Success		Success

Use Case Name	Purchasing a Shopping Cart – External Payment System	
Requirement Number	2.5	
Actors	User, Payment System	
Parameters	Purchasing a Shopping Cart – cart validation use case	
Preconditions	1. Purchasing a Shopping Cart – cart validation use case (Su	ccess)
Actions	<ol> <li>The System calculates the Cart's price and asks the External Payment System to make Payment</li> <li>If the payment operation fails, the purchase process stops and the user is notified. If the payment succeeds the purchase process continues ("Purchasing a Shopping Cart – External Supplyment System" use case)</li> </ol>	
Result	The System will continue the purchase process	
Data	Data Result	
The Payment system fai	The Payment system fails to make payment Fail	
The System has lost connection to the payment system Fail		Fail
None of the above		Success

Use Case Name	Purchasing a Shopping Cart – External Supplyment System	
Requirement Number	2.5	
Actors	User, Supplyment System	
Parameters	Purchasing a Shopping Cart – External Payment System use cas	se
Preconditions	Purchasing a Shopping Cart – External Payment System use cas	se (Success)
Actions	<ol> <li>The System checks which products from the cart should be cand uses the External Supplying system to book the supply the User's input information</li> <li>If the booking operation fails, the system performs a roll bac User's payment, stops the purchase process and notifies the operation succeeds the purchase process continues ("Fair a Shopping Cart – Updating the Market" use case)</li> </ol>	ment with ck on the ne User. If
Result	The System will continue the purchase process	
Data		Result
The Supplyment system fails to book Fail		Fail
The System has lost connection to the Supplyment system Fail		Fail
None of the above		Success

Use Case Name	Purchasing a Shopping Cart – Updating the Market	
Requirement Number	2.5	
Actors	User	
Parameters	Purchasing a Shopping Cart – External Supplyment System	use case
Preconditions	2. Purchasing a Shopping Cart – External Supplyment System use case (Success)	
Actions	1. The System Updates each store and product with new quantities. If it fails to update (quantities go below 0, product is removed from the store), The System performs a rollback on the payment system and aborts the supply booking, stops the purchase process and notifies the User  2. The System saves the Shopping Baskets in the appropriate store's history  3. The System notifies relevant store staff of the purchase's success  4. The System reset's the User's cart	
Result	The User completed a purchase	
Data	Data Result	
A Product's quantity go	A Product's quantity goes below 0 Fail	
A Product is not found in a store (got removed during earlier stages of the process) Fail		Fail
The update process succeeds Success		Success

Use Case Name	Logging out	
Requirement Number	3.1	
Actors	Member	
Parameters	Member	
Preconditions	The <i>Member</i> is logged in	
	1. The Member requests to log out from the System	
Actions	2. The System saves his / her current Shopping Cart conten	t
	3. The System changes the Member's status to Guest	
Result	The Member becomes a Guest and the Shopping Cart is sav	/ed
Data		Result
A Guest is attempting to log out Fail		Fail
The Member is logging out with products in his cart Success		Success
The Member is logging of	out with no products in his cart	Success

Use Case Name	Opening a Store	
Requirement Number	3.2	
Actors	Member	
Parameters	None	
Preconditions	The Member is logged in	
Actions  Result	1. The Member requests to open a Store with some attributes 2. The System verifies the attributes are legal, if it fails it notifies the Member 3. The System makes a new Store and appoints the Member as a Founder  A new Store is created	
Data	Data Result	
A Guest is attempting to	A Guest is attempting to open a store Fail	
A Member is attempting to open a store with invalid store attributes Fail		Fail
A Member is attempting	g to open a store with legal attributes	Success

Use Case Name	Writing a review for a Product	
Requirement Number	3.3	
Actors	Member	
Parameters	Member_ID, Product, review_string	
Preconditions	The Member previously Purchased the Product	
Actions	<ol> <li>The Member requests to submit a review for a Product</li> <li>The System verifies that the <i>Product</i> is still sold by the Store, and that the <i>review_string</i> is legal</li> <li>If the System fails to verify one of the above, the review is not submitted, and the Member is notified</li> </ol>	
Result	The System posts the review and notifies relevant Members	
Data	Data Result	
A Member is trying to write a review with 500+ characters Fail		Fail
A Member is trying to write a review for a product he did not purchase Fail		Fail
A Member is trying to w	rite a review for a product he did purchase	Success

Use Case Name	Rating a Product and Store	
<b>Requirement Number</b>	3.4	
Actors	Member	
Parameters	Rating, Store, Product	
Preconditions	The Member haven't rated this Store and Product before	
Actions	<ol> <li>The Member requests from the System to rate with a specific rating</li> <li>The System verifies the preconditions and that the <i>Rating</i> has a legal value</li> <li>If the System fails to verify, the Member is notified, and the rating isnot submitted</li> </ol>	
Result	The rating is submitted	
Data		Result
A Member is trying to ra	A Member is trying to rate twice the same Store and Product Fail	
A Guest is trying to rate Fail		Fail
A Member is trying to rate with illegal rating value Fail		Fail
A Member is trying to ra	ate with legal rating value	Success

Use Case Name	Sending a message to a Store	
Requirement Number	3.5	
Actors	Member	
Parameters	Store, Subject_string, body_string	
Preconditions	None	
Actions	<ol> <li>The Member selects a store and requests to send a message with a Subject_string title and body_string</li> <li>The System sends the Message to the relevant Members and notifies them</li> </ol>	
Result	The relevant Members are notified and receive the message	
Data	Data Result	
A Member is attempting to send a message with invalid body or title length Fail		Fail
A Member is attempting to send a message to a Store that doesn't exist Fail		Fail
A Member is attempting	g to send a message with legal values for title and subject	Success

Use Case Name	Filling complaint to System admin	
Requirement Number	3.6	
Actors	User	
Parameters	title_string, body_string, purchase_id	
Preconditions	None	
Actions	1. The user requests the system to send a complaint to the system	
	administrator about a purchase	
	2. The system prompts the user to enter title, body and purchase id	
	3. the user enter title_string, body_string and purchase_id	
	The system sends the message and notifies the system administrator	
Result	The relevant Member is notified about the message	
Data	Data Result	
The User enters an invalid title / body Fail		Fail
The user didn't purchase anything Fail		Fail
The user purchased som	nething and he filled valid title and body	Success

Use Case Name	Getting information about former purchases	
Requirement Number	3.7	
Actors	Member	
Parameters	None	
Preconditions	Member is logged in	
Actions	<ol> <li>The member requests the system for his purchase history</li> <li>The system fetches his purchase history</li> </ol>	
Result	The relevant Member receive his purchase history	
Data		Result
The Member is not logged in Fail		Fail
The Member's purchasing history is empty Success		Success
The Member has made	some purchases	Success

Use Case Name	Viewing Member's information	
Requirement Number	3.8	
Actors	Member	
Parameters	The identification parameter the user wants to change	
Preconditions	Member is logged in	
Actions	<ol> <li>The member requests the system to view his information</li> <li>The system fetches the member's information and shows it to him</li> </ol>	
Result	The relevant Member gets his information	
Data		Result
The Member is not logged in Fail		Fail
The Member is logged in	n	Success

Use Case Name	changing password / username	
Requirement Number	3.8	
Actors	Member	
Parameters	Password / username the user wants to change	
Preconditions	Member is logged in	
Actions	<ol> <li>The member requests the system to change password/username</li> <li>The system prompts the member to enter new password/username</li> <li>The member enters new password/username</li> <li>The system verifies the username/password. The System checks they are valid and changes them</li> </ol>	
Result	The relevant Member is notified that the parameters have changed	
Data	Data Result	
The Member's new identification are invalid (empty password/username, weak		Fail
password)		
The member is not logged in Fail		Fail
The Member's new ider	ntifications are valid	Success

Use Case Name	Upgrading the account security	
Requirement Number	3.9	
Actors	Member	
Parameters	answer_string	
Preconditions	The member is logged in	
Actions	1. The Member requests the system to upgrade his account security	
	2. The Member enters Security question and answer	
	The system saves the question and the member's answer	
Result	The relevant Member is notified the process has been completed	
Successfully Result		Result
The member enters an empty string as an answer		Fail
Guest is trying to add Security questions		Fail
The member submits a	valid answer	Success

Use Case Name	Add product to a store	
<b>Requirement Number</b>	4.1, 5	
Actors	Manager	
Parameters	Store, Product	
Preconditions	Store manager must have proper permission from store own	ner / founder
	1. The owner is logged in	
Actions	2. The System verifies the Manager has the right permissions to perform	
ACTIONS	the action	
	3. The System adds the product to the Store	
Result	The relevant Manager is notified about the change	
Data Result		Result
The Manager doesn't have the right permissions		Fail
The Manager trying to add a product that already exists in the store Fail		Fail
The Manager has permissions and adds a product  Success		Success

Use Case Name	Update product in a store	
Requirement Number	4.1, 5	
Actors	Manager	
Parameters	Store, Product	
Preconditions	Store manager must have proper permission from store owner / founder	
	1. The owner is logged in	
Actions	2. The System verifies the Manager has the right permissions to perform	
Actions	the action	
	3. The system updates the product in the Store	
Result	The relevant Manager is notified about the change	
Data Result		Result
The Manager doesn't have the right permissions Fail		Fail
The Manager has permissions and updates a product Success		Success

Use Case Name	Remove product from a store	
Requirement Number	4.1, 5	
Actors	Manager	
Parameters	Store, Product	
Preconditions	Store manager must have proper permission from store own	ner / founder
	1. The owner is logged in	
Actions	2. The System verifies the Manager has the right permissions to perform	
ACTIONS	the action	
	3. The System removes the product from the Store	
Result	The relevant Manager is notified about the change	
Data Result		Result
The Manager doesn't have the right permissions		Fail
The Manager tries to remove a product that doesn't exists in the store Fail		Fail
The Manager has permissions and removes a product Success		

Use Case Name	Set direct discount to product	
Requirement Number	4.2, 5	
Actors	Store owner	
Parameters	Store name, until date, discount percent, product name	
Preconditions	Store owner is an owner of the given store, until date is valid, product exists and discount percent is valid	
	1. User inserts input to system	
Actions	2. System sets the proper discount to the given product – removing any	
Actions	previous discounts	
	3. Success message is displayed to the user	
Result	The product is now associated with the new discount	
Data		Result
A store which is not owned by the user is inserted		Fail
Invalid date is inserted		Fail
Invalid discount percent is inserted		Fail
Non-existing product is inserted		Fail
All preconditions hold		Success

	· .	
Use Case Name	Set secret discount to product	
Requirement Number	4.2, 5	
Actors	Store owner	
Parameters	Store name, until date, discount percent, product name, se	cret code
Preconditions	Store owner is an owner of the given store, until date is valid, product exists, discount percent is valid and secret code isn't empty	
	1. User inserts input to system	
Aatiana	2. System sets the proper discount to the given product – removing any	
Actions	previous discounts	
	3. Success message is displayed to the user	
Result	The product is now associated with the new discount	
Data		Result
A store which is not owned by the user is inserted		Fail
Invalid date is inserted		Fail
Invalid discount percent is inserted		Fail
Non-existing product is inserted		Fail
All preconditions hold Success		Success

Use Case Name	Set discount to store	
Requirement Number	4.2, 5	
Actors	Store owner	
Parameters	Store name, until date, discount percent, type of discount (condition)	
Preconditions	Store owner is an owner of the given store, until date is valid, discount percent is valid and the type of discount is supported by the system	
Actions	1. User chooses condition for a store discount 2. User enters discount details (date + percent) 3. The system associates the store with the new discount, removing any previous discounts 4. The system displays a success message	
Result	The store is now associated with the new discount	
Data		Result
Any of the preconditions doesn't hold Fail		Fail
All preconditions hold	Il preconditions hold Success	

Use Case Name	Set composed discount to store	
Requirement Number	4.2, 5	
Actors	Store owner	
Parameters	Store name, until date, discount percent, previous existing discounts, how to compose both discounts	
Preconditions	Store owner is an owner of the given store, until date is valid, discount percent is valid, both discounts exist in the system	
Actions	<ol> <li>User chooses 2 previous existing discounts in the system</li> <li>User enters discount details (date + percent)</li> <li>The system associates the store with the new discount, removing any previous discounts</li> <li>The system displays a success message</li> </ol>	
Result	The store is now associated with the new discount	
Data Result		Result
Any of the preconditions doesn't hold Fail		Fail
All preconditions hold Success		Success

Use Case Name	Purch	asing a cart with valid discounts	
Requirement Number	4.2, 5		
Actors	User /	<sup>/</sup> guest	
Parameters	Paym	ent and supplying info	
Preconditions	Cart is	sn't empty and contains items from stores with discounts	
	1. Use	er attempts to purchase cart	
Actions	2. The system calculates the price of the cart and takes into account all		
Actions	discount rules		
	3. <u><b>Pu</b>r</u>	rchase cart use case is now activated	
Result	Same	as purchase cart use case result	
Data		Result	
Empty cart		Fail	
All preconditions hold		Purchase has succeeded + payment was done for the price AFTER	
All preconditions hold		discounts	

Use Case Name	Creating a new purchase condition and setting it to a store		
Requirement Number	4.2, 5		
Actors	Store owner		
Parameters	Store name, condition type(s), condition info		
Preconditions	Owner is an actual owner of the store		
	1. User inserts store name and condition type(s)		
Actions	2. User chooses how to compose the conditions (single, or, xor, and)		
Actions	3. System associates store with the new purchase condition, removing		
	any previous conditions		
Result	The store is now associated with the new purchase condition		
Data		Result	
A non- owner triggers the use case Fail		Fail	
Precondition holds, valid conditions are inserted Success		Success	

Use Case Name	Composing new purchase condition from previous condition	IS	
<b>Requirement Number</b>	4.2, 5		
Actors	Store owner		
Parameters	Store name, condition ids, composing operator		
Preconditions	Owner is an actual owner of the store		
	1. Store owner inserts store name, and condition ids he wants to compose		
Actions	2. Owner chooses operator to compose between conditions		
Actions	3. System associates store with new purchase condition removing any		
previous conditions it was associated with			
Result	The store is now associated with the new purchase condition		
Data Result		Result	
A non-owner triggers the use case Fail		Fail	
Precondition holds, valid conditions are inserted Success		Success	

Use Case Name	A user tries to purchase a cart that violates a purchase condition		
Requirement Number	4.2, 5		
Actors	User/Guest		
Parameters	Payment and supplying info		
Preconditions	Cart isn't empty, and violates some purchase conditions		
Actions	User attempts to purchase a cart that violates some purchase conditions in some stores     The system displays a relevant message to the user stating that a purchase condition violation has occurred     Purchase use case ISN'T TRIGGERED		
Result	An appropriate response message is displayed		
Data		Result	
A cart that violates at least 1 purchase condition Syste		System displays error message	

Use Case Name	Owner changes p	product's policy to bargaining
<b>Requirement Number</b>	4.2, 5	
Actors	Store owner	
Parameters	Store name, prod	duct name, starting price for bidding
Preconditions	Owner is a store	owner, product exists
Actions	<ol> <li>Owner inserts store name, product name and bidding starting price</li> <li>System removes item from any purchase cart of any user in the system</li> <li>System associates product with new purchase policy</li> <li>System displays relevant success message</li> </ol>	
Result	Product is associated with the new policy	
Data		Result
Any of the conditions doesn't hold		Fail
All conditions hold		Product is associated with new purchase policy and all products are deleted from users' carts (direct purchase policy)

Use Case Name	User bids on produc	t
Requirement Number	4.2, 5	
Actors	Member	
Parameters	Store name, produc	t name, payment and supplying info
Preconditions	1. Triggering user is	a member of the market
Preconditions	2. Product is up for	bargaining
	1. User searches for	a relevant product and presses "place a bid"
	2. User enters bid p	rice and payment & supplying info
Actions	3. System stores supply and payment info in its database	
Actions	4. System creates a new bid (or updates the existing bid with the new	
	price)	
	5. System displays s	uccess message to user
Result	Bid is created, its sta	atus is set to waiting for approval and payment and
Result	supplying info is sav	red in the system for later user
Data		Result
Any of the conditions doesn't hold		Fail
All conditions hold, no previous existing bids		A new bid is created for the user, relevant message is displayed
All conditions hold, there was a previous		The bid is updated with the new bid the user has
existing bid for the user		given and a relevant response message is displayed

Use Case Name	Store staff	approves bid	
Requirement Number	4.2, 5		
Actors	Store staff		
Parameters	Store nam	e, product name, bidding user to approve	
Preconditions	<ol> <li>Triggering user is a staff of the store and has relevant permissions</li> <li>User has made a bid for the product</li> </ol>		
	1. User en	ters input details	
	2. System	adds the approving user to the approvers' list. If the approving	
Actions	user is the last user to approve, the system restores the payment and		
Actions	supply info of the bidding user and executes <i>Purchase use case</i> with		
	this data		
	3. Appropi	riate response message is displayed to user	
Result	Approving user is added to approvers' list and / or purchase use case is executed (only if 2.1 is triggered)		
Nesuit			
Data		Result	
Any of the conditions doesn't hold		Fail	
All conditions hold, user isn't the		The user is added to the approver's list – purchase use case	
last staff to approve		isn't yet executed	
All conditions hold, user is the last		The user is added to the approver's list – purchase use case is	
staff to approve		executed, and the bid is deleted from the system	

Use Case Name	Store staff declin	nes bid
Requirement Number	4.2, 5	
Actors	Store staff	
Parameters	Store name, prod	duct name, bidding user to decline
Preconditions	Triggering user is a staff of the store and has relevant permissions     User has made a bid for the product	
Actions	<ol> <li>User enters input details</li> <li>System deletes bid from database</li> <li>System notifies bidding user that the store has rejected its bidding</li> <li>System displays relevant success message to user</li> </ol>	
Result	Bid is deleted from system and a relevant message is sent to the bidding user	
Data		Result
Any of the conditions doesn't hold		Fail
All conditions hold		The bid is deleted from the system, proper message is sent to the declined user

Use Case Name	Change back to d	direct purchase policy
Requirement Number	4.2, 5	
Actors	Store staff	
Parameters	Store name, prod	duct name, original price
Preconditions	Triggering user is	s a staff of the store and has relevant permissions
	1. User enters input details	
	2. System closes	all ongoing bids
Actions	3. System executes Store staff declines bid for any ongoing bid for the	
ACTIONS	product	
	4. The product is associated with the new direct purchase policy	
	5. Relevant respo	onse message is displayed
Result		ed from system, relevant message is sent to all the
Nesuit	bidding users, pr	oduct is not up for bidding anymore
Data		Result
Any of the conditions doesn't hold		Fail
All conditions hold, no on-going bids		No messages are sent, product isn't up for bidding
All conditions hold, there are on-going		All bids are declined, relevant messages are sent to
bids		declined users. Product isn't up for bidding

Use Case Name	Approve store owner appointment request	
Requirement Number	4.4, 5	
Actors	Owner, Founder	
Parameters	new_owner, Store	
Preconditions	1. The Owner is logged in	
Preconditions	2. Store manager must have proper permission from store or	wner
	<ol> <li>The owner requests the system to approve the appointment new_owner</li> <li>The system verifies the Owner is the owner of the Store</li> </ol>	ent of
Actions	The system verifies the Owner is the Owner of the Store     The system verifies there is an open request to appoint new_owner to Owner	
	<ul><li>4. The system adds the vote to the list of Owners who appro</li><li>5. If all Owners approved the request then the new_owner is Owner permissions</li></ul>	
Result	The system updates the list of owners who approved the appointment and if all of the owners approved then the new_owner receives Owner Permissions	
Data		Result
The Owner is not the Store owner Fail		Fail
There is no request to appoint new_owner to Owner Fail		Fail
The owner is the store owner and there is a request to appoint new_owner Success		

Use Case Name	Decline store owner appointment request		
Requirement Number	4.4, 5		
Actors	Owner, Founder		
Parameters	new_owner, Store		
Dracanditions	1. The Owner is logged in		
Preconditions	2. Store manager must have proper permission from store o	wner	
	1. The owner requests the system to decline the appointmen	nt of	
	new_owner		
	2. The system verifies the Owner is the owner of the Store		
Actions	3. The system verifies there is an open request to appoint new_owner to		
	Owner		
	4. The system removes the request and notifies the requesting owner that		
	the request has been declined		
	The system updates the list of owners who approved the appointment		
Result	and if all of the owners approved then the new owner receives Owner		
	Permissions		
Data		Result	
The Owner is not the Store owner Fail		Fail	
There is no request to appoint new_owner to Owner Fail		Fail	
The owner is the store owner and there is a request to appoint new_owner Success			

Use Case Name	Appoint store owner	
Requirement Number	4.4, 5	
Actors	Owner,Store Manager	
Parameters	new_owner,Store	
Preconditions	1. The Owner is logged in	
Preconditions	2. Store manager must have proper permission from store of	owner
Actions  Result	<ol> <li>The Owner requests the system to add a store owner to head.</li> <li>The System verifies the Owner is the Store owner.</li> <li>The system verifies the new_owner is not already the sto owner/manager.</li> <li>The system adds a request to appoint new_owner and not other owners about the request.</li> <li>The system adds a request to appoint new_owner and notifications.</li> </ol>	re otifies all
Data		Result
The Owner is not the Store owner Fail		Fail
The new_owner already owns the Store Fail		Fail
The owner is the store owner and the new_owner is not  Success		Success

Use Case Name	Remove Store owner	
Requirement Number	4.5, 5	
Actors	Owner,Store Manager	
Parameters	Store, owner_to_remove	
Preconditions	1. The Owner is logged in	
Preconditions	2. Store manager must have proper permission from store of	owner
Actions	<ol> <li>The Owner requests the system to remove a store owner Store</li> <li>The system verifies the Owner is the Store owner</li> <li>The System verifies owner_to_remove was appointed by</li> <li>After removing the owner, the system checks if there is a owner appointment request that can now be approved</li> <li>The system removes the permissions of owner_to_remove a members that were appointed by owner_to_remove and no Owner</li> </ol>	the Owner pending and all other
Data		Result
The owner is not the Sto	The owner is not the Store owner Fail	
The owner_to_remove wasn't appointed by Owner Fail		Fail
The Owner is the owner and owner_to_remove was appointed by him Success		

Use Case Name	Receive owner appointment requests	
Requirement Number	4.5, 5	
Actors	Owner, Founder	
Parameters	Store	
Dracanditions	1. The Owner is logged in	
Preconditions	2. Store manager must have proper permission from store o	wner
	1. The Owner / Founder requests the system for the open of appointment requests he didn't vote on of Store	wner
Actions	2. The system verifies the store exists	
	3. The system verifies the Owner / Founder is indeed Owner Store	/ Founder of
Result	The system provides the Owner / Founder with all the Store's open	
Owner appointment requests that he didn't vote on		
Data		Result
The owner is not the Store owner		Fail
The Store does not exist Fail		Fail
The Owner is the owner and Store exists Success		Success

Use Case Name	Appoint store manager	
Requirement Number	4.6, 5	
Actors	Owner	
Parameters	new_manager, Store	
Preconditions	The Owner is logged in	
Actions	<ol> <li>The owner requests the system to add a store manager to</li> <li>The System verifies the Store exists</li> <li>The System verifies the requester is the Store owner</li> <li>The System verifies the new_manager is a valid member</li> <li>The System makes the new_manager a manager with defapermissions to the store</li> </ol>	
Result	The system updates new_manager permissions and notifies	the Owner
Data		Result
The owner is not the Store owner		Fail
The new_manager is already the Store's manager / owner		Fail
The owner sets a User v	vho is not the Store's manager / owner	Success

Use Case Name	Change store manager permissions	
Requirement Number	4.7, 5	
Actors	Owner, Store manager	
Parameters	manager, new_permissions,Store	
Preconditions	<ol> <li>The Owner is logged in</li> <li>Store manager must have proper permission from store o</li> </ol>	wner
Actions	<ol> <li>The Owner requests the system to manager permissions</li> <li>The System verifies the Owner is the Store owner</li> <li>The Owner enters the new_permissions</li> </ol>	
Result	The system updates the manager permissions and notifies the	ne Owner
Data		Result
The owner is not the Store owner		Fail
The manager is not the Store's manager		Fail
The owner chooses correct permissions Success		Success

Use Case Name	Remove store manager	
Requirement Number	4.8, 5	
Actors	Owner, Store Manager	
Parameters	manager_to_remove, Store	
Preconditions	1. The Owner is logged in	
Preconditions	2. Store manager must have proper permission from store o	wner
	1. The Owner requests the system to remove manager_to_re	emove from
Actions	his position as Store manager	
Actions	2. The System verifies the Owner is the Store owner	
	3. The system verifies manager_to_remove was appointed by the Owner	
Dogult	The system removes manager_to_remove permissions as sto	ore manager
Result and notifies the Owner		
Data		Result
The owner is not the Store owner Fai		Fail
The manager_to_remove was not appointed by the Owner Fail		Fail
The manager_to_remov	ve was appointed by the Owner	Success

Use Case Name	Close a store	
Requirement Number	4.9, 5	
Actors	Store Founder	
Parameters	Store ID	
Preconditions	1. Store exists and in "open" status	
Preconditions	2. User is the store's founder	
	1. The store founder asks the system to close a store	
	2. The store founder inputs a store that he founded	
	3. The system verifies that the store exists and is not in "clo	sed" state
Actions	already	
	4. The system verifies the relevant user permissions	
	5. The system changes the store status to "closed"	
	6. The system sends the store staff a "Store closing messag	e"
	7. The system removes the store's products from the produ	uct search view
	1. Store's status is changed to "closed"	
Result	2. Store is only visible to admins and store owners	
Result	3. Store's product are not visible on search	
	4. "Store closing message" is sent to store's owner and manager	
Data		Result
User enters an invalid st	User enters an invalid store name Fail	
User enters a store that is already closed Fail		Fail
User enters a store ID of a store he founded Success		Success

Use Case Name	Reopen a closed store	
Requirement Number	4.10, 5	
Actors	Store founder	
Parameters	Store ID	
Preconditions	1. Store exists and in "closed" status	
Preconditions	2. User is the store's founder	
	1. Store founder chooses to reopen a store	
	2. Store founder inputs a store he founded	
	3. The system verifies that the store exists and in not in "open" state	
Actions	already	
	4. The system verifies the relevant user permissions	
	5. The system changes store's status to "open"	
	6. The system sends a "Store reopening message" to the st	ore staff
Docult	1. Store's status Is changed to "open"	
2. Store's manager and owner receive a "Store reopening message"		nessage"
Data		Result
User enters an invalid st	User enters an invalid store name Fail	
User enters a store that is already open Fail		Fail
User enters a store ID o	User enters a store ID of a store he founded Success	

Use Case Name	Get store employees information	
Requirement Number	4.11, 5	
Actors	Store founder, Store manager, Store Owner	
Parameters	Store_name	
	1. Member must exist	
Preconditions	2. Member ID must be of a store employee	
	3. Store manager must have proper permission from store	owner
	1. Store founder asks the system to get information about t	the
	store_name employees	
Actions	2. The system verifies the relevant user permissions	
	3. The system provides the store founder with the informat	ion about the
	staff including manager permissions	
Result	Store founder is shown the employee's information and for each man	
Nesuit	it shows the permissions he has	
Data		Result
Member ID is of a member that doesn't have permissions to view store staff  Fail		Fail
Member ID is of a member that has the right permissions to view store staff  Success		Success

Use Case Name	Receive and read member's questions	
Requirement Number	4.12, 5	
Actors	Store owner, Store manager	
Parameters	None	
Preconditions	Store manager must have proper permission from store of	owner
	1. The store owner chooses to read member's questions	
Actions	2. The system verifies the relevant user permissions	
	3. The system shows the member's questions to the store	owner
Result	Store owner is shown the member's questions list	
Data		Result
User (Not a store owner) chooses the read member's questions option Fail		Fail
User (Store owner) chooses the read member's questions option Success		Success

Use Case Name	Answer members' questions	
Requirement Number	4.12, 5	
Actors	Store owner, Store manager	
Parameters	Answer text	
Preconditions	Store manager must have proper permission from store o	wner
	1. Store owner chooses a member's questions	
	2. Store owner chooses to answer the question	
Actions	3. Store owner inputs the answer text	
Actions	4. The system verifies the text is not empty	
	5. The system verifies relevant user permissions	
	6. The system adds the answer to the member's question	
Result	The answer is added to the member's question	
Data		Result
User enters an empty st	ring as answer	Fail
User enters a non-empt	y string as answer	Success

Use Case Name	Get store's purchase history	
Requirement Number	4.13, 5	
Actors	Store owner, Store manager	
Parameters	Store ID	
Preconditions	1. Store ID must be of a store that is owned by the store owner	
Treconditions	2. Store manager must have proper permission from store	e owner
1. The store owner asks the system to get store purchase history		history
	2. The store owner inputs the store ID	
Actions	3. The system verifies that the store exists	
	4. The system verifies the relevant user permissions	
	5. The system provides the purchase history for that store	<u> </u>
Result	Store's purchase history is provided to the store owner	
Data	Data Result	
User enters a store ID that doesn't exist Fail		Fail
User enters a store ID of a store he doesn't own Fail		Fail
User enters a store ID of the store he owns Success		Success

Use Case Name	Closing store permanently	
Requirement Number	6.1	
Actors	Admin, Store Owner, Store Manager	
Parameters	Store ID	
Preconditions	Store exists	
	1. The admin inputs a store to close	
	2. The system verifies that the store exists	
	3. The system verifies the relevant user permissions	
Actions	4. The system sends "Store closing message" to store owners and	
	managers	
	5. The system cancels the membership of the store own	ers and
	managers	
Dogula	Result  The store is no longer available to users and store managers and owners are no longer members	
Result		
Data		Result
User enters a store ID of a store that doesn't exist Fail		Fail
User enters a store ID of a store that is already closed Fail		Fail
User enters a store ID of an open store Success		

Use Case Name	Canceling membership	
<b>Requirement Number</b>	6.2	
Actors	Admin, Member	
Parameters	Member ID (user name)	
Preconditions	Member exists and registered	
	1. The admin inputs a member ID he wishes to remove	
Actions	2. The system verifies that the member exists	
710110110	3. The system verifies the relevant user permissions	
	4. The system cancels all permissions and roles of the m	ember
Result	The membership is canceled	
Data		Result
User enters a member I	D of a member that doesn't exist	Fail
User enters a character that is not a number		Fail
User enters an empty string		Fail
User enters a member I	D of an existing member	Success

Use Case Name	Read and comment to complaints	
Requirement Number	6.3	
Actors	Admin, Member	
Parameters	Comment text	
Preconditions	None	
	1. The admin gets information and reads the members of	complaints
	2. The admin chooses a complaint	
Actions	3. The admin comments on the member complaint	
	4. The system verifies the text is not empty	
	5. The system verifies the relevant user permissions	
Result	A comment is added to the member's complaint	
Data		Result
User enters an empty string as comment Fail		Fail
User enters a non-empty string as comment Success		Success

Use Case Name	Send messages to buyers and sellers	
Requirement Number	6.3	
Actors	Admin, Buyer/Seller	
Parameters	Message text	
Preconditions	None	
	1. The admin chooses a buyer or seller	
	2. The admin chooses to send the member a message	
Actions	3. The admin inputs the message text	
Actions	4. The system verifies the text is not empty	
	5. The system verifies the relevant user permissions	
	6. The system sends to message to the selected member	r
Result	A message is sent to the selected member	
Data		Result
User enters an empty string as message Fail		Fail
User enters a non-empt	y string as message	Success

Use Case Name	Receive messages from buyers and sellers		
Requirement Number	6.3		
Actors	Admin, Buyer/Seller		
Parameters	None		
Preconditions	None		
Actions	<ol> <li>The system gets a message to send from a buyer or seller</li> <li>The system notifies the admin that a message is waiting         (If admin is not logged in he will get notified when he logs in)</li> <li>The admin opens the message and reads it</li> </ol>		
Result	A message is received and read by the admin		
Data		Result	
No internet connection		Fail	
A buyer sends a non-empty message to admin		Success	

Use Case Name	Get purchase history of member		
Requirement Number	6.4		
Actors	Admin, Member		
Parameters	Member ID		
Preconditions	Member exists		
Actions	1. The admin chooses a member it wants to get its purchase history		
	2. The system verifies the member exists		
	3. The system verifies the relevant user permissions		
	4. The system sends the admin the saved history of the member		
Result	Member's purchase history is provided to the admin		
Data		Result	
User enters a member ID that doesn't exist		Fail	
User enters a character that is not a number		Fail	
User enters a member ID of an existing member Success		Success	

Use Case Name	Get purchase history of a store		
Requirement Number	6.4		
Actors	Admin		
Parameters	Store ID		
Preconditions	Store exists		
Actions	<ol> <li>The admin chooses a store he wants to know the purchase history of</li> <li>The system verifies the store exists</li> <li>The system verifies the relevant user permissions</li> <li>The system sends the admin the saved history of the store</li> </ol>		
Result	Store's purchase history is provided to the admin		
Data		Result	
User enters a store ID that doesn't exist		Fail	
User enters a character that is not a number		Fail	
User enters a store ID of an existing store Success		Success	

Use Case Name	Admin attempts to view system stats		
Requirement Number	6.5		
Actors	System admin		
Parameters	Date		
Preconditions	Actor has to be a system admin, date has to be today or any earlier date		
Actions	1. Admin enters a date		
	2. System displays all stats of the system regarding the inserted date.		
Result	Relevant stats are displayed to the user		
Data		Result	
Non admin tries to trigger this use case		Fail	
Admin tries to trigger this use case		System displays relevant system stats	
Admin inserts an invalid date		Fail	

Use Case Name	Real time stats change		
Requirement Number	6.5		
Actors	System admin, system-event change trigger, publisher component		
Parameters	None		
Preconditions	Admin is currently viewing the system stats of TODAY		
	1. An event that triggers system-stats change has happened		
Actions	2. System notifies publisher that system stats have changed		
	3. Publisher	posts updated stats to admin	
Result	Relevant stats are refreshed without the user doing anything		
Data		Result	
Non trigger event happens		No change to system stats	
Trigger event happens		System stats are updated and displayed to viewing admin(s)	