































Title	Add Item
ID	UC-IC-1
Relevant User Stories	FR-CART-1, FR-CART-8
Description	This use case describes the process for adding an item to the localUser cart.
System Under Design	Centauri/Item Cart System
Primary Actor	General User.
Participants	Admin localUser, Premium User, Non-Premium User
Goal	To successfully add an item to the localUser cart.
Following Use Cases	Cart Update Save (Add Item part of Update Cart generalization).
Invariant	User is in cart view.
Precondition	User is signed into a localUser account.
Success Postcondition	The system saves the item to the localUsers cart.

STEPS	ALTERNATIVE
1. User selects "add to cart" button on a purchasable item.	3a. Item is no longer in stock.
2. System directs localUser to their cart.	3b. System displays message to localUser that the item is no longer in stock.
3. System saves item in the localUser's cart.	

Title	Ban Account
ID	UC-ADM-1
Relevant User Stories	FR-ADM-1
Description	This use case describes the steps banning an account that violates the Terms of Service.
System Under Design	Administration System
Primary Actor	Admin User
Participants	Offending User
Goal	Remove localUser account from the system.
Following Use Cases	Provide Reason for Ban, View Seller Profiles.
Invariant	None
Precondition	The localUser must have administrative permissions.
Success Postcondition	The account violating terms is barred access to the app.

STEPS	ALTERNATIVE
1. The admin localUser navigates to the profile of the offending localUser.	1a. The admin localUser views a report on an offending localUser.

STEPS	ALTERNATIVE
2. The system displays the page of the offending localUser.	1b. The admin clicks on the link to the offending localUser. (Go to step 2.)
3. The admin localUser clicks on the button to ban the account.	
4. The system directs the admin localUser to a page requesting reason for a ban.	
5. The admin localUser enters information into the form.	
6. The admin localUser clicks the button concluding the ban.	
7. The system sends a notification to the offending localUser's email inbox indicating they have been banned.	
8. The system displays a message indicating they have been banned upon an attempt to sign in by the offending localUser.	
9. The system locks the account down.	

Title	Cancel Premium Subscription
ID	UC-PR-1
Relevant User Stories	FR-ACC-5, FR-PAY-1
Description	This use case describes the process of cancelling a premium subscription and downgrading to a regular account.
System Under Design	Centauri/Premium System
Primary Actor	Premium User.
Participants	None
Goal	To successfully downgrade a localUser account to a non-premium one.
Following Use Cases	None
Invariant	User has a valid localUser account.
Precondition	User is a premium member.
Success Postcondition	User becomes a regular localUser.

STEPS	ALTERNATIVE
1. The localUser selects "Cancel My Subscription" button.	
2. The system directs the localUser to a new page to confirm if they are sure.	
3. The localUser selects the option "Yes".	3a. The localUser selects the option "No".
4. The system downgrades the localUser to a regular account in the database.	3b. The system directs the localUser back to their account settings.
5. The system notifies the localUser in app of when their membership access will officially terminate.	
6. The system sends the localUser an email notifying them that they have successfully unsubscribed.	



Title	Create Account
ID	UC-ACC-1
Relevant User Stories	FR-ACC-4
Description	This use case describes the process of creating a localUser account.
System Under Design	Centauri/Signup System
Primary Actor	Unregistered User.
Participants	No Additional Participants.
Goal	The goal is to create a localUser account successfully.
Following Use Cases	login
Invariant	No Invariant
Precondition	User Selects "create account" button
Success Postcondition	User is able to login successfully with new account.

STEPS	ALTERNATIVE
1. User Selects "create account" button	5a. User chooses a username, password, or email that already exists for another account.
2. System displays dedicated account creation page	5b. System notifies localUser to select another username password, or email.
3. User chooses a standard account, a seller account, or both	
4. System requests the localUser to input a unique username, password, and email.	
5. User Inputs a unique username, password, and email.	
6. System sends email to the address listed by the localUser for confirmation.	
7. User confirms account through email	

Title	Edit Account Info
ID	UC-ACC-2
Relevant User Stories	FR-ACC-6, FR-ACC-7, FR-ACC-8, FR-ACC-9
Description	This use case describes the process of editing the information associated with a localUser account.
System Under Design	Centauri/Account System.
Primary Actor	General User
Participants	Administrative localUser, premium localUser, non-premium localUser, seller localUser.
Goal	To successfully edit the information associated with a localUser account.
Following Use Cases	Change Username, change password, change email
Invariant	No Invariant.

Title	Edit Account Info
Precondition	User is signed into a valid account.
Success Postcondition	No postcondition.

STEPS	ALTERNATIVE
1. User selects "Edit account information" page.	3a. The inputed information matches an existing account.
2. System prompts localUser to enter a new username, password, or email.	3b. The system prompts the localUser to input a different username password or email.
3. User enters a new username, password, or email.	5a. The inputed information does not match the initial input.
4. System prompts localUser to re-enter the new username, password, or email.	5b. The system informs the localUser that the inputs do not match.
5. User re-enters new username, password, or email.	
6. User selects the "confirm" button.	
7. System saves new information to account database.	

Title	Enter Item Page
ID	UC-CAT-1
Relevant User Stories	FR-CAT-1, FR-CAT-2, FR-CAT-3
Description	This use case describes the process opening navigating to the item information page.
System Under Design	Centaury/Item Catalog System
Primary Actor	General User
Participants	Admin User, Premium User, Non-Premium User, Seller.
Goal	To successfully display the contents of the item information page.
Following Use Cases	Add to cart, Enter Seller Page.
Invariant	None
Precondition	User must view item in the item catalog.
Success Postcondition	System will display the contents of the item information page.

STEPS	ALTERNATIVE
1. User views item in the item catalog.	
2. System highlights the item, allowing localUser to click on it.	
3. User clicks on item.	
4. System brings localUser to the item page.	

Title	Enter New Payment Method
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TitleEnter New Payment Method	
ID	UC-PAY-1
Relevant User Stories	FR-PAY-3
Description	This use case describes the process of entering a new payment method.
System Under Design	Centauri/Payment Methods System.
Primary Actor	General User.
Participants	Administrative localUser, premium localUser, non-premium localUser, seller localUser.
Goal	To successfully enter a new payment method into the system.
Following Use Cases	Save Payment Method, Saved Payment Notification
Invariant	None
Precondition	User must be checking out or localUser must have a registered account.
Success Postcondition	Payment method is saved temporarily for the current order, or if entering the new payment in settings using a registered account, payment is saved to the account.
STEPSALTERNATIVE	
1. User selects the button to enter a new payment method.	
2. The system opens an input box for localUser to input their new payment method.	
3. The localUser types in their credit card information.	
4. The localUser clicks on a button to confirm their payment details.	
5. The system confirms that the payment method is valid.	5a. The system can not confirm that the payment method is valid.
6. The system temporarily saves the payment method for the current order.	5b. The system prompts the localUser to enter the correct payment details.
	6a. The system saves the payment method to the registered account, if the payment method is entered in the account payment settings.

TitleFilter Search	
ID	UC-SER-1
Relevant User Stories	FR-SER-6
Description	This use case describes the steps for filtering through the results of a search.
System Under Design	Search System
Primary Actor	General User
Participants	Admin User, Premium User, Non-Premium User

Filter Search	
<b>Title</b>	
<b>Goal</b>	Display list of items relevant to the search after filtering.
<b>Following Use Cases</b>	Filter by Rating, Filter by Price
<b>Invariant</b>	None
<b>Precondition</b>	User must first initiate a search.
<b>Success Postcondition</b>	System will return a list of items that matches the search after filtering, or if nothing is left, system will return a message saying no items matched their search.
STEPS	
	<b>ALTERNATIVE</b>
1. User enters keyword(s) into the search bar.	1a. User filters an existing search. (Go to Step 4)
2. The system fetches listings that contain the keyword(s) in the title, description, or tags.	2a. System is unable to fetch listings that match the search.
3. The system displays a list of items that matches the keyword(s).	2b. System returns a message stating No Items Found.
4. User selects desired filters for narrow down search.	
5. User clicks the button to initiate a filtered search.	
6. The system filters out listings that do not match the search.	6a. System filters out every listing.
7. The system displays a list of items that matches the search.	6b. System returns a message stating No Items Found.

Leave Review	
<b>Title</b>	
<b>ID</b>	UC-REV-1
<b>Relevant User Stories</b>	FR-REV-1, FR-REV-2
<b>Description</b>	This use case describes the process for leaving a review on an item or seller.
<b>System Under Design</b>	Centauri/Review System
<b>Primary Actor</b>	General User.
<b>Participants</b>	Admin localUser, Premium User, Non-Premium User, Seller account.
<b>Goal</b>	To successfully leave a review on an item or a seller.
<b>Following Use Cases</b>	None.
<b>Invariant</b>	User is signed into a valid localUser account.
<b>Precondition</b>	User has interacted with the item or seller in question previously.
<b>Success Postcondition</b>	User successfully leaves a review on a item or seller.
STEPS	
	<b>ALTERNATIVE</b>
1. User selects "leave review" button.	3a. User chooses to leave review of a seller.
2. System prompts localUser to pick either an item review or a seller review.	3b. System displays the previous sellers that the localUser has bought from.

STEPS	ALTERNATIVE
3. User chooses to leave a review of an item.	3c. User selects seller to review.
4. System displays the previous items that the localUser has bought.	3d. System prompts localUser to write a review title, seller rating, and the written review itself.
5. User selects item to review.	3e. User provides this information.
6. System prompts localUser to write a review title, product rating, and the written review itself.	3f. User selects the "confirm review" button.
7. User provides this information.	3g. System attaches the review to the selected seller.
8. User selects the "confirm review" button.	7a. User does not fill out all 3 sections.
9. System attaches the review to the selected item.	7b. System prompts localUser to fill in remaining sections.

Title	Login
ID	UC-ACC-3
Relevant User Stories	FR-ACC-1
Description	This use case describes the process of logging into a localUser account.
System Under Design	Centauri/Account System.
Primary Actor	General User
Participants	Administrative localUser, premium localUser, non-premium localUser, seller localUser.
Goal	To successfully login to a localUser account
Following Use Cases	Edit account info, upgrade account, view cart, view item catalog, leave review, view bidding page, view purchase history, view recommendations, search function, chat function.
Invariant	Account being logged into exists.
Precondition	User selects "login" button.
Success Postcondition	System loads Centauri home page.

STEPS	ALTERNATIVE
1. User enters username and password.	3a. Entered username or password do not match any reference in the account database.
2. User selects "login" button.	3b. System alerts localUser that username or password are incorrect.
3. System cross references entered username and password with account database	3c. System prompts localUser to enter a different username and password.
4. System loads Centauri home page	3d. User selects "forgot username or password.
5.	3e. System prompts localUser to enter connected email address.
6.	3f. User enters connected email address.
7.	3g. System sends localUser email to reset username or password.
8.	3h. User changes username or password.

Title	Logout
ID	UC-ACC-4
Relevant User Stories	FR-ACC-2, FR-ACC-3
Description	This use case describes the process of logging out of a localUser account.
System Under Design	Centauri/Account System
Primary Actor	General User
Participants	Administrative localUser, premium localUser, non-premium localUser, seller localUser.
Goal	To successfully logout of a localUser profile.
Following Use Cases	No following use cases.
Invariant	No Invariant.
Precondition	User is signed into a localUser account.
Success Postcondition	User is successfully logged out of the localUser profile.

STEPS	ALTERNATIVE
1. User selects "logout" button.	3a. User selects "all connected devices".
2. System prompts localUser to log out of current device or all connected devices.	3b. System removes localUser access to the account from all connected devices.
3. User selects "current device".	
4. System removes localUser access to the account from the current device.	

Title	Place Bid
ID	UC-BID-1
Relevant User Stories	FR-BID-1
Description	This use case describes the process of placing a bid on a biddable item.
System Under Design	Centauri/Bidding System
Primary Actor	General User
Participants	Admin User, Premium User, Non-Premium User, Seller.
Goal	To successfully place a bid on a biddable item.
Following Use Cases	None
Invariant	User is signed into a valid localUser account.
Precondition	User views the item in the bidding menu.
Success Postcondition	User successfully places a bid on an item.

STEPS	ALTERNATIVE
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STEPS	ALTERNATIVE
1. User selects the item to bid on.	5a. Another localUser places a higher bid
2. System displays the current highest bid, time left to bid, and the number of bidders.	5b. User has the option to place another bid.
3. User places bid at a minimal interval set by the seller.	5c. System resets the timer back to one minute if a bid is made within one minute from t he time limit.
4. User wins at the end of the time limit with the highest bid.	

Title	Remove Item
ID	UC-CART-2
Relevant User Stories	FR-CART-2, FR-CART-3, FR-CART-6, FR-CART-7
Description	This use case describes the process for removing an item from the localUser cart.
System Under Design	Centauri/Item Cart System
Primary Actor	General User.
Participants	Admin localUser, Premium User, Non-Premium User
Goal	To successfully remove an item from the localUser cart.
Following Use Cases	Add Item, checkout.
Invariant	No invariant.
Precondition	User is signed into a localUser account.
Success Postcondition	The system updates the current state of the localUser's cart.

STEPS	ALTERNATIVE
1. The localUser clicks on the Cart icon.	
2. The system directs the localUser to their cart.	
3. The localUser clicks on the quantity number of an item in their cart.	3a. The localUser clicks on the 'X' icon next to the item to remove an item. (Go to step 5.)
4. The localUser changes the quantity of the item to zero.	
5. The system removes the item from their cart.	
6. The system displays the updated cart upon the localUser refreshing or revisiting the cart.	

Title	Remove Product
ID	UC-ADM-2
Relevant User Stories	FR-ADM-2
Description	This use case describes the steps to removing listings from the app.

Title	Remove Product
System Under Design	Administration System
Primary Actor	Admin User
Participants	N/A
Goal	Remove listing from the system.
Following Use Cases	Provide Reason for Removal
Invariant	None
Precondition	The localUser must have administrative permissions.
Success Postcondition	The system no longer lists the item listing on the app.

STEPS	ALTERNATIVE
1. The admin localUser navigates to the profile of the seller.	
2. The system displays the seller profile.	
3. The admin localUser clicks on a button to remove products.	
4. The system displays a list of current listings with the ability to check/uncheck listings.	
5. The admin localUser checks on the items that they wish to remove.	
6. The admin localUser clicks on a button confirming removal of the items.	
7. The system directs the admin localUser to a form requesting information on reason for removal.	
8. The admin localUser fills out the form.	
9. The admin localUser clicks on a button submitting the form.	
10. The system sends a notification to the seller's email inbox and app messages indicating listings have been removed.	
11. The system deletes the listings from the database.	

Title	Select Payment Method
ID	UC-PAY-2
Relevant User Stories	FR-PAY-2
Description	This use case describes the process of selecting a payment method
System Under Design	Centauri/Payment Methods System.
Primary Actor	General User.
Participants	Administrative localUser, premium localUser, non-premium localUser, seller localUser, guest localUser.
Goal	To successfully select a payment method for an order.
Following Use Cases	Display Order Review, Payment Confirmation
Invariant	None
Precondition	The localUser must be checking out.



TitleSelect Payment Method	
Success Postcondition	The localUser is able to pay with the payment method.
STEPSALTERNATIVE	
1. The system displays the possible payment methods for the localUser.	
2. The localUser clicks on a saved payment method.	2a. The localUser inputs a new payment method.
3. The localUser checks out with the selected payment method.	2b. The localUser clicks on a button to confirm the new payment method is to be used.
	2c. The system temporarily saves the payment method for the current order. (Go to step 3.)

TitleSend Message	
ID	UC-CHAT-1
Relevant User Stories	FR-CHAT-1, FR-CHAT-2, FR-CHAT-3, FR-CHAT-4
Description	This use case describes the steps for sending a message to another localUser on the platform.
System Under Design	Centauri/Chat System
Primary Actor	General User
Participants	Admin localUser, Premium User, Non-Premium User
Goal	Successfully deliver a message to another Centauri localUser.
Following Use Cases	None
Invariant	None
Precondition	User must be registered. The message must not be an empty message.
Success Postcondition	Message is delivered and shows up in the chat of both parties.
STEPSALTERNATIVE	
1. User clicks on the button to chat.	1a. User navigates to the page of seller/buyer/customer service.
2. System opens up a chat box.	1b. User clicks on the button on their page to chat. (Go to step 4.)
3. User selects the recipient within the chat box.	
4. User types in a message.	
5. User clicks on the button to send message.	
6. App checks if message input is valid.	6a. System recognizes the message is invalid.
7. System delivers message to recipient.	6b. System notifies the localUser that they have entered an empty message.
8. Recipient localUser receives a message notification.	

Title	Upgrade Membership
ID	UC-PR-2
Relevant User Stories	FR-PAY-1, FR-ACC-5
Description	This use case describes the process of upgrading a localUser account to a premium account.
System Under Design	Centauri/Premium System
Primary Actor	Non-Premium User.
Participants	None
Goal	To successfully upgrade a localUser account to a premium one.
Following Use Cases	More accurate search functions, higher customer service priority, faster shipping options, cancel subscription.
Invariant	User has a valid localUser account.
Precondition	User is not already a premium member.
Success Postcondition	User becomes a premium localUser.

STEPS	ALTERNATIVE
1. User selects "upgrade account" button.	4a. User has not saved a payment method.
2. System loads upgrade account page.	4b. System prompts localUser to enter payment information.
3. System prompts localUser to select payment method.	
4. User selects saved payment method.	
5. System now designates account as premium account.	
6. System sends localUser a billing statement to their email.	

Title	View Item Location
ID	UC-TRK-1
Relevant User Stories	FR-TRK-1, FR-TRK-2, FR-TRK-3
Description	This use case describes the steps for viewing the current location of an order.
System Under Design	Tracking System
Primary Actor	General User
Participants	Admin User, Premium User, Non-Premium User
Goal	Display the current location of an order.
Following Use Cases	None
Invariant	None
Precondition	There must be an order that has been placed.
Success Postcondition	The system will display the current status and/or location of an order.

Title	View Item Location
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STEPS	ALTERNATIVE
1. The localUser clicks on the button to view their order.	1a. The localUser clicks on a notification of a tracking update. (Go to step 4)
2. The system redirects the localUser to the page of an order.	
3. The localUser clicks on the button to view the tracking of an order.	
4. The system fetches the current and previous statuses of an order.	
5. The system returns a page displaying the current location, current status, and previous statuses of an order.	5a. The system displays that the current status of the item is not yet available.

Title	View Purchase History
ID	UC-PHI-1
Relevant User Stories	FR-PHI-1, FR-PHI-2, FR-PHI-3, FR-PHI-6
Description	This use case describes the steps for viewing an account's purchase history.
System Under Design	Centauri/Purchase History System
Primary Actor	General User
Participants	Admin localUser, Premium User, Non-Premium User
Goal	Successfully display a list of all purchases made on the account.
Following Use Cases	Search History, Filter History, View Item
Invariant	The localUser must be logged in.
Precondition	The localUser must have an account in the system.
Success Postcondition	The system displays the list of all purchases made on the account, if any.

STEPS	ALTERNATIVE
1. User clicks on the button to view their purchase history.	
2. System directs them to the page with their purchases.	
3. System displays list of purchases in order of most recent.	3a. System displays a message saying there has been no purchases made yet.

Title	View Search
ID	UC-SER-2
Relevant User Stories	FR-SER-1, FR-SER-2, FR-SER-3, FR-SER-4, FR-SER-5
Description	This use case describes the steps for viewing the results of a search.

Title		View Search	
System Under Design		Search System	
Primary Actor		General User	
Participants		Admin User, Premium User, Non-Premium User	
Goal		Display list of items relevant to the search.	
Following Use Cases		List by Popularity, List by Rating, List by Price, Filter Search	
Invariant		None	
Precondition		At least one keyword must be entered into the search box.	
Success Postcondition		System will return a list of items that matches the search, or if nothing matches, system will return a message saying no items matched their search.	
STEPS		ALTERNATIVE	
1. User enters keyword(s) into the search bar.			
2. The system fetches listings that contain the keyword(s) in the title, description, or tags.		2a. System is unable to fetch listings that match the search.	
3. The system displays a list of items that matches the keyword(s).		2b. System returns a message stating No Items Found.	

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