

## Web-based Auction System

Author (s): Leyi Guo, Weiyi He, Xinyao Wang, Yannan Fei Date: November 6, 2021  
Version: 1.0

USE CASE NAME:	Login	USE CASE TYPE Business Requirements:
USE CASE ID:	01	
PRIORITY:	High	
PRIMARY BUSINESS ACTOR:	Auction house	
OTHER PARTICIPATING ACTORS:	<ul style="list-style-type: none"> <li>• Bank</li> <li>• Logistics company</li> </ul>	
OTHER INTERESTED STAKEHOLDERS:	<ul style="list-style-type: none"> <li>• Current customers</li> <li>• Potential customers</li> </ul>	
SHORT DESCRIPTION:	The user login to access personal information, including orders and profile.	
PRE-CONDITION:	The user has registered and has not logged into the system.	
TRIGGER:	The user clicked on the "login" button.	
TYPICAL COURSE OF EVENTS:	<b>Actor Action</b>	<b>System Response</b>
	<b>Step 1:</b> The user clicked on the "login" button.	<b>Step 2:</b> The system received the request and moved to the log-in page, asking for username and user password.
	<b>Step 3:</b> The user input the username and password that he used when registering.	<b>Step 4:</b> The system takes the username-password combination and finds the same combination in the database system.
		<b>Step 5:</b> The system verifies the user to be valid.
	<b>Step 6:</b> The webpage moved to the profile page of the user.	
	<b>Step 7:</b> End use case.	
ALTERNATE COURSES:	<b>Step 4a:</b> The system takes the username-password combination and does not find the same combination in the database system. <b>Step 4a1:</b> A message appears indicating "invalid username and password". <b>Step 4a2:</b> Resume at step 3.	
CONCLUSION:		
POST-CONDITION:		
BUSINESS RULES:		
IMPLEMENTATION CONSTRAINTS AND SPECIFICATIONS:	The username and password have to follow the same constraints of the register use case (cannot include characters other than numbers and English characters).	
ASSUMPTIONS:		
OPEN ISSUES:		

## Web-based Auction System

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Version: 1.0

<b>USE CASE NAME:</b>	View all products		<b>USE CASE TYPE</b> Business Requirements:
<b>USE CASE ID:</b>	02		
<b>PRIORITY:</b>	High		
<b>PRIMARY BUSINESS ACTOR:</b>	Auction house		
<b>OTHER PARTICIPATING ACTORS:</b>	<ul style="list-style-type: none"> <li>• Bank</li> <li>• Logistics company</li> </ul>		
<b>OTHER INTERESTED STAKEHOLDERS:</b>	<ul style="list-style-type: none"> <li>• Current customers</li> <li>• Potential customers</li> </ul>		
<b>SHORT DESCRIPTION:</b>	The user is able to view all the products in the database.		
<b>PRE-CONDITION:</b>	The user is logged into the system.		
<b>TRIGGER:</b>	The user clicks on the button "view all products"		
<b>TYPICAL COURSE OF EVENTS:</b>	<b>Actor Action</b>	<b>System Response</b>	
	<b>Step 1:</b> The user clicks on the button "view all products".	<b>Step 2:</b> The system browses through the database and displays all products in the database.	
<b>ALTERNATE COURSES:</b>	<b>Step2a:</b> The system finds out that there is no product in the database. <b>Step2a1:</b> The system returns a "no product found" message.		
<b>CONCLUSION:</b>	The user views all the products in the database.		
<b>POST-CONDITION:</b>			
<b>BUSINESS RULES:</b>			
<b>IMPLEMENTATION CONSTRAINTS AND SPECIFICATIONS:</b>	The database should be simple enough to traverse through for the "view all products" request.		
<b>ASSUMPTIONS:</b>			
<b>OPEN ISSUES:</b>			

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Author (s): Leyi Guo, Weiyi He, Xinyao Wang, Yannan Fei Date: November 6, 2021  
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USE CASE NAME:	Edit profile	USE CASE TYPE Business Requirements:
USE CASE ID:	03	
PRIORITY:	Middle	
PRIMARY BUSINESS ACTOR:	Auction house	
OTHER PARTICIPATING ACTORS:	<ul style="list-style-type: none"><li>• Bank</li><li>• Logistics company</li></ul>	
OTHER INTERESTED STAKEHOLDERS:	<ul style="list-style-type: none"><li>• Current customers</li><li>• Potential customers</li></ul>	
SHORT DESCRIPTION:	The user (customers and admins) is able to edit profile	
PRE-CONDITION:	The user is logged into the system	
TRIGGER:	The user clicks on the “edit profile” button	
TYPICAL COURSE OF EVENTS:	Actor Action	System Response
	Step 1: The user clicks on the “edit profile” button.	Step 2: The system receives the request and redirects to the edit profile page.
	Step 3: The user edits the profile.	Step 4: The system checks the data type of the user input.
	Step 5: The user clicks on the “finish editing” button.	Step 6: The system confirms the edited profile and update into the database.
ALTERNATE COURSES:	Step 4a: The system checks the data type of the user input and finds that the input is invalid.	
	Step 4a1: The system returns “invalid input” to the user.	
	Step 4a2: Resume at step 3.	
CONCLUSION:	The user edits profile and the new profile is updated in the database.	
POST-CONDITION:		
BUSINESS RULES:		
IMPLEMENTATION CONSTRAINTS AND SPECIFICATIONS:	The input data type should follow the requirements of that specific category. Error checking should be included here.	
ASSUMPTIONS:		
OPEN ISSUES:		

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Author (s): Leyi Guo, Weiyi He, Xinyao Wang, Yannan Fei Date: November 6, 2021

Version: 1.0

USE CASE NAME:	Register	USE CASE TYPE Business Requirements:
USE CASE ID:	04	
PRIORITY:	High	
PRIMARY BUSINESS ACTOR:	Auction house	
OTHER PARTICIPATING ACTORS:	<ul style="list-style-type: none"><li>• Bank</li><li>• Logistics company</li></ul>	
OTHER INTERESTED STAKEHOLDERS:	<ul style="list-style-type: none"><li>• Current customers</li><li>• Potential customers</li></ul>	
SHORT DESCRIPTION:	The user registers to access services of auctions.	
PRE-CONDITION:	The user accessed the welcome page and has not registered yet.	
TRIGGER:	The user clicked on the “register” button.	
TYPICAL COURSE OF EVENTS:	Actor Action	System Response
	Step 1: The user clicks on the “register” button.	Step 2: The system receives the request and redirects to the register page.
	Step 3: The user inputs the email username, password, and inputs the password twice for verification. We use JavaScript to do the verification for passwords.	Step 4: The system checks that the email and username are not in the database before. If not, register this user in the database.
	Step 5: Get a notification that registered successfully.	
		Step 6: Redirect the webpage to the log-in page.
ALTERNATE COURSES:	Step 4a: The email is already in the database, meaning that the user has already registered. Step 4a1: a message appears stating that “this email has already registered as a user; please login”. Step 4a2: Resume at step 2. Step 4b: The email is not in the database, but the username is already in the database, meaning someone has already registered with this username. Step 4b1: a message appears stating that “someone has registered with this username; please try again”. Step 4b2: Resume at step 2. Step 3a: The password input and password verification input are not the same. Step 3a1: a message appears stating that “the two password inputs are not identical; please try again”. Step 3a2: Resume at step 3.	
CONCLUSION:		
POST-CONDITION:		
BUSINESS RULES:		
IMPLEMENTATION CONSTRAINTS AND SPECIFICATIONS:	The username and password can only include English characters and numbers.	
ASSUMPTIONS:		
OPEN ISSUES:		

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Author (s): Leyi Guo, Weiyi He, Xinyao Wang, Yannan Fei Date: November 6, 2021  
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USE CASE NAME:	Send notification	USE CASE TYPE Business Requirements:
USE CASE ID:	05	
PRIORITY:	Middle	
PRIMARY BUSINESS ACTOR:	Auction house	
OTHER PARTICIPATING ACTORS:	<ul style="list-style-type: none"><li>• Bank</li><li>• Logistics company</li></ul>	
OTHER INTERESTED STAKEHOLDERS:	<ul style="list-style-type: none"><li>• Current customers</li><li>• Potential customers</li></ul>	
SHORT DESCRIPTION:	The admin is able to send notification to the customer(s).	
PRE-CONDITION:	The admin is logged into the system.	
TRIGGER:	The admin clicks on the button “send notification”.	
TYPICAL COURSE OF EVENTS:	Actor Action	System Response
	Step 1: The admin clicks on the button “send notification”.	Step 2: The system redirects to the notification page.
	Step 3: The admin selects the customer(s), inputs a message and clicks “send”.	Step 4: The system checks if the message is not null, and sends the message to the customer(s) as a notification.
ALTERNATE COURSES:	Step 4a: The system checks and finds out the message is null.	
	Step 4a1: The system returns a “message is null” message.	
	Step 4a2: Resume to Step 3.	
CONCLUSION:	The admin sends a notification to the attempted customer(s). The customer(s) receives the notification sent by the admin.	
POST-CONDITION:		
BUSINESS RULES:		
IMPLEMENTATION CONSTRAINTS AND SPECIFICATIONS:	The message to be sent should not be null.	
ASSUMPTIONS:		
OPEN ISSUES:		

## Web-based Auction System

**Author (s):** Leyi Guo, Weiyi He, Xinyao Wang, Yannan Fei **Date:** November 6, 2021  
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USE CASE NAME:	Search a product	USE CASE TYPE Business Requirements:
USE CASE ID:	06	
PRIORITY:	Middle	
PRIMARY BUSINESS ACTOR:	Auction house	
OTHER PARTICIPATING ACTORS:	<ul style="list-style-type: none"><li>• Bank</li><li>• Logistics company</li></ul>	
OTHER INTERESTED STAKEHOLDERS:	<ul style="list-style-type: none"><li>• Current customers</li><li>• Potential customers</li></ul>	
SHORT DESCRIPTION:	The user searches for a product by its name and finds the corresponding product.	
PRE-CONDITION:	The user has already registered and logged in.	
TRIGGER:	The user inputs the searching keyword and clicks the “search” button.	
TYPICAL COURSE OF EVENTS:	Actor Action	System Response
	Step 1: The user inputs the searching keyword and clicks the “search” button.	Step 2: The system takes the keyword and searches in the database.
		Step 3: the system finds the corresponding product(s) in the database, and returns the products.
		Step 4: the webpage displays a list of products satisfying the keyword to the user.
		Step 5: End the use case.
ALTERNATE COURSES:	Step 3a: the corresponding product(s) are not found in the database.	
	Step 3a1: The system returns a “products not found” message.	
CONCLUSION:		
POST-CONDITION:	The webpage moves to the “search results” webpage, either displaying the corresponding products or “products not found.”	
BUSINESS RULES:		
IMPLEMENTATION CONSTRAINTS AND SPECIFICATIONS:		
ASSUMPTIONS:		
OPEN ISSUES:		

Author (s): Leyi Guo, Weiyi He, Xinyao Wang, Yannan Fei Date: November 6, 2021  
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<b>USE CASE NAME:</b>	Delete a product	<b>USE CASE TYPE</b> Business Requirements:
<b>USE CASE ID:</b>	07	
<b>PRIORITY:</b>	Middle	
<b>PRIMARY BUSINESS ACTOR:</b>	Auction house	
<b>OTHER PARTICIPATING ACTORS:</b>	<ul style="list-style-type: none"> <li>Bank</li> <li>Logistics Company</li> </ul>	
<b>OTHER INTERESTED STAKEHOLDERS:</b>	<ul style="list-style-type: none"> <li>Current customers</li> <li>Potential customers</li> </ul>	
<b>SHORT DESCRIPTION:</b>	The common user decides to delete a product he has requested to sell.	
<b>PRE-CONDITION:</b>	The common user is registered and logged in; the user has entered the webpage of "view all my transactions".	
<b>TRIGGER:</b>	The user selects a product and clicks the "delete" button.	
<b>TYPICAL COURSE OF EVENTS:</b>	<b>Actor Action</b>	<b>System Response</b>
	<b>Step 1:</b> The user selects a product and clicks the "delete" button.	<b>Step 2:</b> The system receives the request and checks the status of the product.
		<b>Step 3:</b> The system finds the product in the database and the product state is unverified.
		<b>Step 4:</b> The system changes the status of the product to "deleted" and returns a success message.
	<b>Step 5:</b> a success message is displayed to the user.	
	<b>Step 6:</b> End the use case.	
<b>ALTERNATE COURSES:</b>	<b>Step 3a:</b> The system finds the product's status other than "unverified."	
	Step 3a1: The system returns a "product is not unverified; you cannot delete the product" message	
	Step 3a2: The webpage returns to the previous page.	
<b>CONCLUSION:</b>		
<b>POST-CONDITION:</b>		
<b>BUSINESS RULES:</b>		
<b>IMPLEMENTATION CONSTRAINTS AND SPECIFICATIONS:</b>		
<b>ASSUMPTIONS:</b>		
<b>OPEN ISSUES:</b>		

Author (s): Leyi Guo, Weiyi He, Xinyao Wang, Yannan Fei Date: November 6, 2021  
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USE CASE NAME:	View transaction history	USE CASE TYPE Business Requirements:
USE CASE ID:	08	
PRIORITY:	Middle	
PRIMARY BUSINESS ACTOR:	Auction House	
OTHER PARTICIPATING ACTORS:	<ul style="list-style-type: none"> <li>• Bank</li> <li>• Logistics company</li> </ul>	
OTHER INTERESTED STAKEHOLDERS:	<ul style="list-style-type: none"> <li>• Current customers</li> <li>• Potential customers</li> </ul>	
SHORT DESCRIPTION:	The admin is able to view the transaction history of all customers.	
PRE-CONDITION:	The admin is logged into the system.	
TRIGGER:	The admin clicks on the button "view transaction history".	
TYPICAL COURSE OF EVENTS:	<b>Actor Action</b>	<b>System Response</b>
	<b>Step 1:</b> The admin clicks on the button "view transaction history".	<b>Step 2:</b> The system browses through the database and displays all transaction history of all the customers on the screen.
ALTERNATE COURSES:	<b>Step2a:</b> The system finds out that there is no transaction in the database.	
	<b>Step2a1:</b> The system returns a "no transaction history found" message.	
CONCLUSION:	The admin views the transaction history of all customers.	
POST-CONDITION:		
BUSINESS RULES:		
IMPLEMENTATION CONSTRAINTS AND SPECIFICATIONS:	The database should be simple enough to traverse through for the "view transaction history" request.	
ASSUMPTIONS:		
OPEN ISSUES:		



Author (s): Leyi Guo, Weiyi He, Xinyao Wang, Yannan Fei Date: November 6, 2021  
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USE CASE NAME:	Post a product	USE CASE TYPE Business Requirements:
USE CASE ID:	09	
PRIORITY:	Middle	
PRIMARY BUSINESS ACTOR:	Auction House	
OTHER PARTICIPATING ACTORS:	<ul style="list-style-type: none"><li>• Bank</li><li>• Logistics company</li></ul>	
OTHER INTERESTED STAKEHOLDERS:	<ul style="list-style-type: none"><li>• Current customers</li><li>• Potential customers</li></ul>	
SHORT DESCRIPTION:	The customer is able to post a product for bidding.	
PRE-CONDITION:	The customer is logged into the system.	
TRIGGER:	The customer clicks on the “post a product” button.	
TYPICAL COURSE OF EVENTS:	Actor Action	System Response
	Step 1: The customer clicks on the “post a product” button.	Step 2: The system redirects to the post product page.
	Step 3: The customer provides start-date, end-date, minimum price, image, and description.	Step 4: The system checks the data type of the user input.
	Step 5: The customer finishes the uploading process and clicks on the “post” button.	Step 6: The system confirms the product details and updates it into the database. The product status is set to 0.
ALTERNATE COURSES:	Step 4a: The system checks the data type of the user input and finds that the input is invalid.	
	Step 4a1: The system returns “invalid input” to the user.	
	Step 4a2: Resume at step 3.	
CONCLUSION:	The user provides the product and the new product is updated in the database.	
POST-CONDITION:		
BUSINESS RULES:		
IMPLEMENTATION CONSTRAINTS AND SPECIFICATIONS:	The input data type should follow the requirements of that specific category. Error checking should be included here.	
ASSUMPTIONS:		
OPEN ISSUES:		

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<b>USE CASE NAME:</b>	Follow a product	<b>USE CASE TYPE</b> Business Requirements:
<b>USE CASE ID:</b>	10	
<b>PRIORITY:</b>	Low	
<b>PRIMARY BUSINESS ACTOR:</b>	Auction House	
<b>OTHER PARTICIPATING ACTORS:</b>	<ul style="list-style-type: none"> <li>• Bank</li> <li>• Logistics company</li> </ul>	
<b>OTHER INTERESTED STAKEHOLDERS:</b>	<ul style="list-style-type: none"> <li>• Current customers</li> <li>• Potential customers</li> </ul>	
<b>SHORT DESCRIPTION:</b>	The user can choose to follow a product and get notified when the auction of the product starts.	
<b>PRE-CONDITION:</b>	The user is registered and logged in.	
<b>TRIGGER:</b>	The user clicked on the “follow” button.	
<b>TYPICAL COURSE OF EVENTS:</b>	<b>Actor Action</b>	<b>System Response</b>
	<b>Step 1:</b> The user clicked on the “follow” button.	<b>Step 2:</b> The system checks that the product is not followed by the user already.
		<b>Step 3:</b> The system adds the product to the users’ “favorite products.”
	<b>Step 4:</b> A message shows that the product is successfully added.	
	<b>Step 5:</b> End the use case.	
<b>ALTERNATE COURSES:</b>	<b>Step 3a:</b> The system checks that the product is followed by the user already.	
	Step 3a1: A message shows that the product is already added.	
	Step 3a2: End the use case.	
<b>CONCLUSION:</b>		
<b>POST-CONDITION:</b>	The product is added to the user’s favorites.	
<b>BUSINESS RULES:</b>		
<b>IMPLEMENTATION CONSTRAINTS AND SPECIFICATIONS:</b>		
<b>ASSUMPTIONS:</b>		
<b>OPEN ISSUES:</b>		

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<b>USE CASE NAME:</b>	View my favorites		<b>USE CASE TYPE</b> Business Requirements:
<b>USE CASE ID:</b>	11		
<b>PRIORITY:</b>	Low		
<b>PRIMARY BUSINESS ACTOR:</b>	Auction House		
<b>OTHER PARTICIPATING ACTORS:</b>	<ul style="list-style-type: none"> <li>• Bank</li> <li>• Logistics company</li> </ul>		
<b>OTHER INTERESTED STAKEHOLDERS:</b>	<ul style="list-style-type: none"> <li>• Current customers</li> <li>• Potential customers</li> </ul>		
<b>SHORT DESCRIPTION:</b>	The customer is able to view all the followed products.		
<b>PRE-CONDITION:</b>	The customer is logged into the system.		
<b>TRIGGER:</b>	The customer clicks on the button "view my favorites".		
<b>TYPICAL COURSE OF EVENTS:</b>	<b>Actor Action</b>	<b>System Response</b>	
	<b>Step 1:</b> The customer clicks on the button "view my favorites".	<b>Step 2:</b> The system browses through the database and displays all the products this customer follows.	
<b>ALTERNATE COURSES:</b>	<b>Step2a:</b> The system finds out that there are no favorite products in the database. <b>Step2a1:</b> The system returns a "no favorite product" message.    		
<b>CONCLUSION:</b>	The customer views all the products that he/she follows.		
<b>POST-CONDITION:</b>			
<b>BUSINESS RULES:</b>			
<b>IMPLEMENTATION CONSTRAINTS AND SPECIFICATIONS:</b>	The database should be simple enough to traverse through for the "view my favorites" request.		
<b>ASSUMPTIONS:</b>			
<b>OPEN ISSUES:</b>			

Author (s): Leyi Guo, Weiyi He, Xinyao Wang, Yannan Fei Date: November 6, 2021  
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USE CASE NAME:	Make payment	USE CASE TYPE Business Requirements:
USE CASE ID:	12	
PRIORITY:	High	
PRIMARY BUSINESS ACTOR:	Auction House	
OTHER PARTICIPATING ACTORS:	<ul style="list-style-type: none"><li>• Bank</li><li>• Logistics company</li></ul>	
OTHER INTERESTED STAKEHOLDERS:	<ul style="list-style-type: none"><li>• Current customers</li><li>• Potential customers</li></ul>	
SHORT DESCRIPTION:	The customer is able to make payment for the product bid.	
PRE-CONDITION:	The customer has bid for the product at a certain price. (product status: 4)	
TRIGGER:	The customer bid for the product and the auction ends with his/her price as the highest.	
TYPICAL COURSE OF EVENTS:	Actor Action	System Response
	Step 1: The customer has bid for the product at a certain price.	Step 2: The system redirects to the bank transaction page.
	Step 3: The customer makes the transaction.	Step 4: The system checks the payment, and sets the product to be successfully sold (product status: 5).
ALTERNATE COURSES:	Step 4a: The customer isn't able to make the payment.	
	Step 4a1: The system checks that the payment fails.	
	Step 4a2: Resume at step 2.	
	Step 4b: The customer doesn't finish the payment in due time.	
	Step 4b1: The system ends the payment.	
	Step 4b2: The system sets the product to be unpaid within due time (product status: 7).	
CONCLUSION:	The customer makes payment for the bid product. The system checks whether the payment is successful or failed.	
POST-CONDITION:		
BUSINESS RULES:		
IMPLEMENTATION CONSTRAINTS AND SPECIFICATIONS:	The bank transaction page handles the payment. The system should have a safe and stable connection directing to and from the bank page.	
ASSUMPTIONS:		
OPEN ISSUES:		

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<b>USE CASE NAME:</b>	Bid	<b>USE CASE TYPE</b> Business Requirements:
<b>USE CASE ID:</b>	13	
<b>PRIORITY:</b>	High	
<b>PRIMARY BUSINESS ACTOR:</b>	Auction House	
<b>OTHER PARTICIPATING ACTORS:</b>	<ul style="list-style-type: none"> <li>• Bank</li> <li>• Logistics company</li> </ul>	
<b>OTHER INTERESTED STAKEHOLDERS:</b>	<ul style="list-style-type: none"> <li>• Current customers</li> <li>• Potential customers</li> </ul>	
<b>SHORT DESCRIPTION:</b>	The user offers a price and becomes a bidder of the product.	
<b>PRE-CONDITION:</b>	The user has entered the auction.	
<b>TRIGGER:</b>	The user inputs the bid price and clicks the button "bid".	
<b>TYPICAL COURSE OF EVENTS:</b>	<b>Actor Action</b>	<b>System Response</b>
	<b>Step 1:</b> The user inputs the bid price and clicks the button "bid".	<b>Step 2:</b> The system checks the bid price to be higher than the current bid price.
		<b>Step 3:</b> The system updates the newest bidder and bid price.
	<b>Step 4:</b> A message shows that the bid was successful, and displays the newest bidder and bid price.	
<b>ALTERNATE COURSES:</b>	<b>Step 2a:</b> The system checks the bid price and finds it lower than the current bid price. <b>Step 2a1:</b> The system appears an error message "bid failed: bid price lower than current highest price." <b>Step 2a2:</b> End the use case.	
<b>CONCLUSION:</b>		
<b>POST-CONDITION:</b>		
<b>BUSINESS RULES:</b>		
<b>IMPLEMENTATION CONSTRAINTS AND SPECIFICATIONS:</b>		
<b>ASSUMPTIONS:</b>		
<b>OPEN ISSUES:</b>		

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<b>USE CASE NAME:</b>	End an auction	<b>USE CASE TYPE</b> Business Requirements:
<b>USE CASE ID:</b>	14	
<b>PRIORITY:</b>	High	
<b>PRIMARY BUSINESS ACTOR:</b>	Auction House	
<b>OTHER PARTICIPATING ACTORS:</b>	<ul style="list-style-type: none"> <li>Bank</li> <li>Logistics company</li> </ul>	
<b>OTHER INTERESTED STAKEHOLDERS:</b>	<ul style="list-style-type: none"> <li>Current customers</li> <li>Potential customers</li> </ul>	
<b>SHORT DESCRIPTION:</b>	The system ends the auction when time is up and notifies the newest bidder.	
<b>PRE-CONDITION:</b>	The auction is in progress.	
<b>TRIGGER:</b>	The auction timer is up.	
<b>TYPICAL COURSE OF EVENTS:</b>	<b>Actor Action</b>	<b>System Response</b>
	<b>Step 1:</b> The auction timer is up, a message is sent to the server.	<b>Step 2:</b> The system stops the auction by stopping receiving bid requests.
	<b>Step 3:</b> A message is displayed stating the end of the auction, together with the newest bidder and bid price.	
<b>ALTERNATE COURSES:</b>		
<b>CONCLUSION:</b>		
<b>POST-CONDITION:</b>		
<b>BUSINESS RULES:</b>		
<b>IMPLEMENTATION CONSTRAINTS AND SPECIFICATIONS:</b>	The notification must be sent to the server in a short time.	
<b>ASSUMPTIONS:</b>		
<b>OPEN ISSUES:</b>		