



Auction System



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Abstract

The idea of the project is bidding over the internet, selling used and new products by their owners.

The user uploads his/her product that he wants to bid on and puts all information on it and we suggest to him starting price and best price to deal.

There are two types of bids (Live bid and Scheduled bid).

The percentage is deducted from the seller and the buyer to ensure that both are serious in their deal according to the terms of the application.

Also, Users can sell products instantly without bidding.

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Chapter 1: Introduction to Auction System

1.1 Survey

We will take a look at Systems that deliver a service to their customer via E-commerce but first, we need to know what E-commerce is, E-commerce (electronic commerce) is the activity of electronically buying or selling goods on online services or over the Internet. E-commerce draws on technologies such as mobile commerce, electronic funds transfer, supply chain management, Internet marketing, online transaction processing, data, now we will show the most successful sites that served those features to customers.

- **Amazon**

Amazon offers the best prices and several options, and it does not link the customer to a single price but offers him multiple options.

Many Amazon products ship on time rivals other shopping sites

The customer can cancel the purchase after payment if the product is not shipped.

Amazon provides instructions to draw the buyer's attention to the product page if the product is cheap even if it is not the seller of that product.

Reliability is another feature of the Amazon site, as it is possible to communicate with the site in the event of a specific problem with the product and it is resolved.

The buyer can know the cost of customs clearance before purchasing.

- **Problems**

- Increased returns
- No direct customer relationship.
- There is no user protection system.
- Several providers of the same product can result in a price battle.

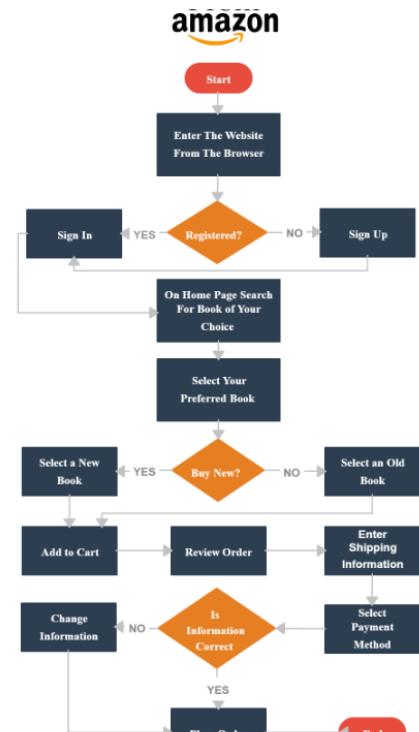


Figure 1 Amazon

- **OLX**

OLX is a brand that is recognized and loved globally. The Classifieds app lets you buy and sell new and second-hand goods locally. There are about 13 major categories and more than 60 sub-categories available for OLX users to post an ad. OLX platform has proven to be a rising tide that has benefited both buyers and sellers.

Features offered by the OLX app are listed below:

- Post an ad and attract buyers.
- Manage your ads on the go – change, remove or re-publish your listings.
- Chat privately with sellers and negotiate prices safely.
- transactional fee to us.
- See the most popular and trending deals in your city.

Problems

- There is no control over the application through buying and selling, and therefore many frauds occur.
- Your personal account will be closed immediately in the event of a violation.
- Some advertisers exaggerate the prices of some goods.
- The spread of selling fake goods
- There is no user protection system.

- **eBay**

best overall online auction website because it's free for buyers, both seller and buyer have protections from fraud, and you're not restricted to just the United States. You can buy and sell on eBay from most countries.

Launched in 1995, eBay is one of the oldest and largest online auction platforms, with 142 million active buyers worldwide. It's the best overall online auction website because buyers don't pay anything to use it unless it's an international buyer who may have a currency conversion fee. Plus, both seller and buyer have protections in the event of fraud.

Categories on eBay include:

- Collectibles and art
- Electronics
- Entertainment memorabilia
- Fashion
- Home and garden

- Motors
- Real Estate
- Sporting goods
- Toys and hobbies
- Tickets and travel
- Pet supplies
- Specialty services
- Baby essentials

Anyone can sell on eBay, although there are restricted and prohibited categories. For example, you can't sell lockpicking or locksmithing devices. eBay also doesn't sell any of its own items, which means you have no competition from them as a seller.

Pros

- Buyers and sellers from all over the world
- It's free for buyers.
- Offers both seller's and buyer's protection.

Cons

- Seller's fees aren't uniform across categories.
- Final value fees can be as high as \$750, depending on your category.
- Displays third-party advertisements and listings from other sellers on any eBay page—including your listing.

Copart

best online auction website for autos is Copart because you can buy vehicles for parts or in drivable condition 100% online and have the vehicle shipped to you. Many of its listings don't require you to have a dealer's license to purchase, which means ordinary buyers can bid on a vehicle. There are more than 175,000 vehicles on Copart, which is an online auto auction site operating in 11 countries. It gets the nod for the best site for auto auctions because individuals, businesses, and dealers can buy and sell used.

Pros

- It's free to create an account, and you only pay for your winning item.
- Most auctioneers have rigging/removal/delivery companies they work with to get you your assets after you've won.
- Some auctions allow pre-bidding so you can participate even if you're not available live.

Cons

- To sell, you must be a qualified and licensed auctioneer or consign your items to one of their auctioneers.
- Some auctioneers require a deposit and buyer's premium.
- You must register for each auction to view and participate.

• Bidspotter

BidSpotter is owned by Auction Technology Group, which had 3,600 auction houses using its technology and listed 14 million lots in fiscal year 2021. Eight billion dollars' worth of items sold per year makes it one of the largest online auction websites in the world. It's the best online auction website for business equipment because it doesn't cost anything to bid—you only pay for your winning item. The auctioneers can even set you up with a company to ship the equipment to you.

Creating an account is completely free, although to sell you must have professional credentials like an auctioneer's license. However, you can consign your items with one of BidSpotter's Premier Auctioneers if you're just a regular consumer.

Auction types available include live webcast auctions, live online-only auctions, and timed-only auctions. At bidding close, winners will receive an invoice to pay the auctioneer directly, rather than BidSpotter. It's free to bid, although an auctioneer may require a buyer's premium or a deposit in addition to sales tax.

Categories of equipment available include:

- Agricultural equipment
- Automotive and vehicles
- Computers and electronics
- Drilling, mining, and forestry

- Food and beverage equipment
- Heavy construction equipment
- Industrial and commercial
- Laboratory and pharmaceutical equipment
- Metalworking
- Plastics and rubber machinery
- Printing equipment
- Real estate
- Woodworking

1.2 Comparison

	Amazon	eBay	Copart	Auction System
How it works	Instant Sales	Auction	Auction	Instant sales & Auctions
Products state	New & Used	Used	Used	New & Used
Category	All	All	Cars only	All
Availability in Egypt	Worldwide	Only in US	Only in US	Available

Figure 2 Comparison in Survey

1.3 Tools and Environment

- **VS Code:**

Visual Studio Code is a lightweight but powerful source code editor which runs on your desktop and is available for Windows, macOS and Linux. It comes with built-in support for JavaScript, TypeScript and Node.js and has a rich ecosystem of extensions for other languages and runtimes (such as C++, C#, Java, Python, PHP, Go, .NET)

- **SQL Developer:**

Oracle SQL Developer is a free, integrated development environment that simplifies the development and management of Oracle Database in both traditional and Cloud deployments. SQL Developer offers complete end-to-end development of your PL/SQL applications, a worksheet for running queries and scripts, a DBA console for managing the database, a reports interface, a complete data modeling solution, and a migration platform for moving your 3rd party databases to Oracle.

- **Database:**

Oracle Database (Oracle DB) is a relational database management system (RDBMS) from Oracle Corporation. Originally developed in 1977 by Lawrence Ellison and other developers, Oracle DB is one of the most trusted and widely used relational database engines for storing, organizing, and retrieving data by type while still maintaining relationships between the various types

- **React:**

React makes it painless to create interactive UIs. Design simple views for each state in your application and react will efficiently update and render just the right components when your data changes.

Declarative views make your code more predictable and easier to debug.

- **CSS:**

is the language for describing the presentation of Web pages, including colors, layout, and fonts. It allows one to adapt the presentation to different types of devices, such as large

screens, small screens, or printers. CSS is independent of HTML and can be used with any XML-based markup language.

- **Node.js:**

is a JavaScript runtime used to create scalable server-side and networking applications via virtual private servers using NPM. It offers non-blocking input/output (I/O) operations and is built on event-driven, asynchronous architecture to help developers create various projects efficiently and easily.

- **Python and Anaconda:**



- Python is a computer programming language often used to build websites and software, automate tasks, and conduct data analysis. Python is a general-purpose language, meaning it can be used to create a variety of different programs.
- Anaconda Distribution is the easiest way to perform Python/R data science and machine learning on a single machine. It also installs packages of Python using PIP and collects packages like OpenCV, NumPy, and more.

1.4 Function Requirement

Users must Create an account on the website for total usage.

The user will fill in his information (Full name – birthday – email – SSN – Phone) and Create a Strong secure password for his/her account.

The user will have to log in with his account to start transactions and use the website for full usage.

The user will log in with his email and password that was created before.

After first login users will choose to add his/her personalized homepage by choosing their interests in categories they like.

Users of the website can shop and see all the products in the (sale or bid) section and see their descriptions and warranties.

Users can upload Products for instant sale, Schedule, or Live Auction using their created accounts.

For selling product user adds product information, specifications, Pictures, Status, Category, and Price

The user that uploads the product should accept the first terms and conditions.

For Auction User adds all product data besides the mode of auction (Live – Scheduled) and the starting time of it.

The buyer will pay a deposit to secure the auction operation.

Seller will pay a low percentage of product price for our profits.

Buyers can purchase products by shopping on website pages or searching the product name.

The buyer is informed by the system when he wins an auction to contact the seller and finish the deal.

The system will enable the report feature If Something unexpected happens in the deal or the meeting between en seller and buyer.

Admin checks System reports that will be depended on to take actions to report accounts.

Admins Review uploaded Products to check if it meets website requirements or not

Chapter 2: System Analysis

2.1 Use-case Description

Name:	Registration
ID:	use case 01.
Description:	Visitors must register on site for full usage.
Primary Actor:	<ul style="list-style-type: none"> • Visitor
Preconditions:	<ul style="list-style-type: none"> • Connected with database. • Connected with internet.
Postconditions:	<ul style="list-style-type: none"> • Redirect to log in page.
Sequence of event:	<ol style="list-style-type: none"> 1) Visitor: enters online website. 2) Visitor: Choses to create account or signing in. 3) System: opens page to write register information. 4) system: Asks visitor to insert special name. 5) Visitor: inserts special name. 6) system: Asks visitor to insert birthday date. 7) Visitor: inserts birthday. 8) system: Asks visitor to insert email. 9) Visitor: inserts email. 10) system: Asks visitor to insert phone number. 11) Visitor: inserts phone number. 12) system: Asks visitor to insert Social Security Number. 13) Visitor: inserts Social Security Number. 14) System: checks validation for all fields. 15) System: checks if the SNN number compatible with other data. 16) System: asks visitor to insert unique username. 17) Visitor: inserts unique username. 18) System: asks visitor to insert strong password. 19) Visitor: inserts the password. 20) System: asks for rewriting the password. 21) Visitor: inserts the password again. 22) system: checks the password is identical or no. 23) Visitor: finishes registration. 24) When all field filling up and all checks correct, redirect to validate his email. 25) System: sends email to user with confirmation number. 26) Visitor: enter the confirmation number. 27) System: alert successful registration.
Exceptions:	<ul style="list-style-type: none"> • SNN not compatibles with other data (no. 15). • System disconnected with database. • Didn't fill all data required.

Name:	Log in
ID:	use case 02.
Description:	Enable visitors to login to their accounts
Primary Actor:	<ul style="list-style-type: none"> • Visitor. • Database Server
Preconditions:	<ul style="list-style-type: none"> • use case_01 must be correctly completed.
Postconditions:	<ul style="list-style-type: none"> • Visitors can do any financial transaction. • Redirect to the next page.
Sequence of event:	<ol style="list-style-type: none"> 1) Visitor: enter online website. 2) Visitor: wants to login to his account. 3) System: asks visitor to fill up his username, email, and password. 4) Visitor: fills up his username, email, and password. 5) System: validates username and password. 6) System: Replies with success message and redirects to next page after first logging in. 7) System: alerts success login and show to the client some of import and famous category. 8) Visitor: will choose interest's category 9) System: shows thanking message
Exceptions:	<ul style="list-style-type: none"> • Error With Network. • Error with the database. • When entered wrong password or username. <p>System alerts fail login.</p>

Name:	Shopping
ID:	use case 03
Description:	The visitor browses the products on the site.
Primary Actor:	<ul style="list-style-type: none"> • Visitor.
Preconditions:	<ul style="list-style-type: none"> • Connect with the internet.
Postconditions:	<ul style="list-style-type: none"> • System is ready for receiving orders
Sequence of event:	<ol style="list-style-type: none"> 1) Visitor: enters online website. 2) Visitor: will see all products for sale or to bid with his price and some description (visitor will see product's title, name, price, quantity, etc....) 3) Visitor: can enter to products to see all product's description and warranties. 4) Visitor: If he is being satisfied with the product, he must login to start transactions
Exceptions:	<ul style="list-style-type: none"> • Error internet connection.

Name:	Upload Product (Instant Sell)
ID:	use case 04.
Description:	Product will be uploaded to be ready for Instant Sell
Primary Actor:	<ul style="list-style-type: none"> • Seller • Database Server
Preconditions:	<ul style="list-style-type: none"> • Seller should have been login in his account.
Postconditions:	<ul style="list-style-type: none"> • The product will be displayed on the system.
Sequence of event:	<ol style="list-style-type: none"> 1. Seller: enters the section which has been dedicated to direct selling. 2. System: shows the terms and conditions of the product offer to the Seller. 3. Seller: accepts the terms and condition 4. System: asks seller what is the method of selling prefers? (Instant Sell - Live Auction - Schedule Auction) 5. Seller: chooses "Instant Sell" 6. System: asks seller to insert the name of product. 7. Seller: inserts product name. 8. System: asks seller to insert product pictures according to the conditions. 9. Seller: uploads product images from all directions. 10. System: asks seller to insert the status of product (Used or New). <p>If the product is used</p> <ol style="list-style-type: none"> 11. System: asks seller to write description of the product. 12. Seller: insert the description of the product. 13. System: asks seller to insert the product's category. 14. Seller: inserts the category of product. <p>If the product has specific information such as car or buildings etc., the system will ask to insert its specific information.</p> <ol style="list-style-type: none"> 15. System: asks seller to insert the rest of the product information depends on the type of product. 16. Seller: completes all information has been required. 17. System: asks seller to insert the price of product. 18. Seller: inserts the price of the product which prefers. 19. System: sends all data to administrator to check that data 20. Seller: receives confirmation message of approving or rejecting the product.
Exceptions:	<ul style="list-style-type: none"> • Seller don't insert all data. Alert require data to insert. • Seller don't accept the terms and conditions.

Name:	Upload Product (Schedule Auction)
ID:	use case 05.
Description:	Product will be uploaded to be ready for Schedule Auction.
Primary Actor:	<ul style="list-style-type: none"> • Seller • Database Server
Preconditions:	<ul style="list-style-type: none"> • Seller should have been login in his account.
Postconditions:	<ul style="list-style-type: none"> • The product will be displayed on the system.
Sequence of event:	<ol style="list-style-type: none"> 1. Seller: enters the section which has been dedicated to direct selling. 2. System: shows the terms and conditions of the product offer to the Seller. 3. Seller: accepts the terms and conditions. 4. System: asks seller What is the method of selling prefers? (Instant Sell - Live Auction - Schedule Auction) 5. Seller: chooses "Schedule Auction" 6. System: asks seller to insert the name of product. 7. Seller: inserts product name. 8. System: asks seller to insert product pictures according to the conditions. 9. Seller: uploads product images from all directions. 10. System: asks seller to insert the status of product (Used or New). <p>If the product is used</p> <ol style="list-style-type: none"> 11. System: asks seller to write description of the product. 12. Seller: insert the description of the product. 13. System: asks seller to insert the category of product. 14. Seller: enters the category of product. <p>If the product has specific information such as car or buildings etc., the system will ask to insert its specific information.</p> <ol style="list-style-type: none"> 15. System: asks seller to insert the rest of the product information depends on the type of product. 16. Seller: completes all information has been required. 17. System: will predict the starting price of the product in the begging of every auction starting. 18. System: suggests for the seller the best minimum price 19. System: asks seller to insert the price of product. 20. Seller: inserts the price of product which he wants. <p>If seller enters lowest price show warning massage</p> <ol style="list-style-type: none"> 21. System: asks seller to insert the time of start auction and the duration of auction. 22. Seller: inserts the time of start auction and duration. 23. System: sends all data for review. 24. Seller: receives confirmation message of approve or reject the product. 25. Product will be approved.

	<p>26. System: asks seller to pay a certain percentage of the expected amount for the beginning of the auction.</p> <p>27. System: holds the operation until sends payment prove.</p> <p>28. Seller: pays the percentage of the expected amount for the beginning and sends payment prove.</p> <p>29. Payment will be checked.</p> <p>30. System: sends a confirmation message of the approve.</p>
Exceptions:	<ul style="list-style-type: none">• Seller don't insert all require data. Alert require data to insert.• Seller don't accept on terms and conditions.• Product will be rejected. <p>The system will send a rejection message, explain the reason for the rejection, request to modify the data and re-send.</p> <ul style="list-style-type: none">• Seller don't send the payment prove.

Name:	Upload Product (Live Auction)
ID:	use case 06.
Description:	Product will be uploaded to be ready for Live Auction on it
Primary Actor:	<ul style="list-style-type: none"> • Seller • Database Server
Preconditions:	<ul style="list-style-type: none"> • Seller should have been login in his account.
Postconditions:	<ul style="list-style-type: none"> • The product will be displayed on the system
Sequence of event:	<ol style="list-style-type: none"> 1. Seller: enters the section which has been dedicated to direct selling. 2. System: shows the terms and conditions of the product offer to the Seller. 3. Seller: accepts the terms and conditions. 4. System: asks seller What is the method of selling prefers? (Instant Sell - Live Auction - Schedule Auction) 5. Seller: chooses "Live Auction" 6. System: asks seller to insert the name of product. 7. Seller: inserts product name. 8. System: asks seller to insert product pictures according to the conditions. 9. Seller: uploads product images from all directions. 10. System: asks seller to insert the status of product (Used or New). <p>If the product is used</p> <ol style="list-style-type: none"> 11. System: asks seller to write description of the product. 12. Seller: insert the description of the product. 13. System: asks seller to insert the category of product. 14. Seller: inserts the category of product. <p>If the product has specific information such as car or buildings ... etc., the system will ask to insert its specific information.</p> <ol style="list-style-type: none"> 15. System: asks seller to insert the rest of the product information depends on the type of product. 16. Seller: completes all information required. 17. System: will predict the starting price of the product in the begging of every auction starting. 18. System: suggests to the seller the best minimum price. 19. System: asks seller to insert the price of product. 20. Seller: enters the price of product he wants. <p>If seller enter lowest price get warning massage</p> <ol style="list-style-type: none"> 21. System: asks seller to insert the time of live auction 22. Seller: inserts the time of live auction. 23. System: sends all data for review. 24. Seller: receives confirmation message of approve or reject the product. 25. Product will be approved. 26. System: asks seller to pay a certain percentage of the expected amount for the beginning of the auction.

	<p>27. System: holds the operation until sends payment prove.</p> <p>28. Seller: pays the percentage of the expected amount for the beginning and sends payment prove.</p> <p>29. Payment will be checked.</p> <p>30. System: sends a confirmation message of approve.</p>
Exceptions:	<ul style="list-style-type: none">• Seller don't insert all data. Alert require data to insert.• Seller don't accept on terms and conditions.• Product will be rejected. The system will send a rejection message, explain the reason for the rejection, request to modify the data and re-send.• Seller don't send the payment prove.

Name:	Instant Purchase
ID:	use case 07
Description:	Enable User to view product and buys it
Primary Actor:	<ul style="list-style-type: none"> • Buyer • Seller
Preconditions:	<ul style="list-style-type: none"> • use case_03: done correctly. • Buyer must have an account.
Postconditions:	<ul style="list-style-type: none"> • Communicate buyer with seller
Sequence of event:	<ol style="list-style-type: none"> 1. System: redirects to search results with the products. 2. System: shows the picture of the product, price, and summary. 3. Buyer: chooses the product which he wants. 4. System: appears all details and guarantees. 5. Buyer: when feel confident approve sale process. 6. System: will connect buyer with seller and send all buyer data (mobile phone, name, etc.) to the seller. 7. System: will connect buyer with seller and send all seller data (mobile phone, name, etc.) to the buyer.
Exceptions:	<ul style="list-style-type: none"> • Error in the network. • The information of the seller or buyer is incorrect.

Name:	Scheduling auction.
ID:	use case 08
Description:	Enable User to participate in Scheduling auction
Primary Actor:	<ul style="list-style-type: none"> • Buyer • Administrator
Preconditions:	<ul style="list-style-type: none"> • use case_03: done correctly. • Visitor actual log in to system.
Postconditions:	<ul style="list-style-type: none"> • The person who is awarded the auction is the one who has the right to obtain the data of the owner of the product.
Sequence of event:	<ol style="list-style-type: none"> 1. Buyer: when finds what he is looking for, he will be asked to participate in the auction. 2. System: shows the terms and conditions of the product offer to the Buyer. 3. Buyer: accepts the terms and conditions. 4. Buyer: pays the auction deposit and sends payment prove. 5. Administrator: checks the amount of the security deposit, checks payment proves and accepts user in auction. 6. System: sends a message for define the state of auction (accepted or refused). 7. System: when auction starts that sends notification to auction members. 8. Buyer: will receive the message. 9. Buyer: he will insert beginning price of auction. 10. System: will check if anyone increase the value of auction's price it will send a message for all buyers in the auction. 11. System: Checks the highest price that remains is the one he won the auction 12. System: gives the winner seller phone and all details
Exceptions:	<ul style="list-style-type: none"> • Buyer don't pay the auction deposit, upload payment receipt. • Administrator don't accept the user

Name:	Live auction.
ID:	use case 09
Description:	This function to allow the buyer to enter the auction at specific time and see the rest of the competing prices and then raises his amount until the auction time ends.
Primary Actor:	<ul style="list-style-type: none"> • Buyer • Administrator
Preconditions:	<ul style="list-style-type: none"> • use case_03: done correctly. • Visitor actual log in to system.
Postconditions:	<ul style="list-style-type: none"> • The person who is awarded the auction is the one who has the right to obtain the data of the owner of the product.
Sequence of event:	<ol style="list-style-type: none"> 1) Buyer: when finds what he is looking for, he will be asked to participate in the auction. 2) System: shows the terms and conditions of the product offer to the Buyer. 3) Buyer: accepts the terms and conditions. 4) Buyer: pays the auction deposit and sends payment prove. 5) Administrator: checks the amount of the security deposit, checks payment proves and accepts user in auction. 6) System: sends a message for define the state of auction (accepted or refused). 7) System: when auction starts that sends notification to auction members. 8) Buyer: will receive the message. 9) System: enters Buyer to the live. 10) Buyer: he will insert the auction price. 11) Buyer: will stay in live page until (end of live, overprice that he doesn't want to raise again) 12) System: checks the highest price that remains is the one he won the auction 13) System: gives the winner seller phone and all details
Exceptions:	<ul style="list-style-type: none"> • Buyer don't pay the auction deposit, upload payment receipt. • Administrator don't accept the user.

Name:	Connect Seller with Buyer
ID:	use case 10
Description:	At the end of the auction, the Buyer Contact with Seller to finish deal.
Primary Actor:	<ul style="list-style-type: none"> • Buyer • Seller
Preconditions:	<ul style="list-style-type: none"> • Buyer won the Auction.
Postconditions:	<ul style="list-style-type: none"> • The Seller is connected to the buyer
Sequence of event:	<p>After the auction ends and one of the bidders gets the auction</p> <ol style="list-style-type: none"> 1) System: sends the product owner's data to the auction winner to communicate with him. 2) System: sends the auction details to the product owner's, such as the name of the auction winner and the final price. 3) System: Removes the product from Auction section after dealing complete
Exceptions:	<ul style="list-style-type: none"> • The information of the seller or buyer is incorrect

Name:	Deal Complete
ID:	use case 11
Description:	The Buyer and Seller Confirms that both have finished the deal.
Primary Actor:	<ul style="list-style-type: none"> • Buyer • Seller
Preconditions:	<ul style="list-style-type: none"> • use case_10 is completed. • Each Other's should be login
Postconditions:	<ul style="list-style-type: none"> • Both Sides Reviews each other's.
Sequence of event:	<ol style="list-style-type: none"> 1. System: Asks Buyer if deal has done 2. Buyer: Replies with ok or not (report problem). 3. System: Asks seller if deal has done 4. Seller: Replies with ok or not (report problem). 5. System: when has two confirms from buyer and seller will end the operation
Exceptions:	<ul style="list-style-type: none"> • Problem happened in deal. • If something unexpected happened between seller and buyer (Disagreement) in Auction section half of the payment that taken from seller and buyer will be returned to them. • If seller and buyer couldn't connect with each other in instant payment, nothing will be returned to them, but review will be added for future review. • If one of those side pirated on other side, he/she will report to us and we will evaluate the problem and we will return the payment to the oppressed side.

Name:	Report problem
ID:	use case 12.
Description:	Buyer/seller reports a problem
Primary Actor:	<ul style="list-style-type: none"> • Buyer • Seller • Admin
Preconditions:	<ul style="list-style-type: none"> • use case_11 is completed
Postconditions:	<ul style="list-style-type: none"> • system ready to take actions
Sequence of event:	<ol style="list-style-type: none"> 1. System: asks if there a problem to maintain 2. System: will show common report problems - others If Buyer/Seller reports a problem before the operation completed System: Will be classified as uncompleted operation problem as the operation do not complete. 3. Admin: Receives the problem in admin's report page and checks the report Else Buyer/Seller reports a problem after the operation completed System: Will be classified as attitude problem 4. Admin: Receives the problem in admin's report page and checks the report 5. Admin: ensure that report act against the user (seller or buyer) and take decision
Exceptions:	<ul style="list-style-type: none"> • Report language not clear

Name:	Product review
ID:	use case 13.
Description:	The administration reviews the products and sees if they meet the requirement and specifications or not.
Primary Actor:	<ul style="list-style-type: none"> • Administrator.
Preconditions:	<ul style="list-style-type: none"> • The administrator is login to system. • Seller must have uploaded a product.
Postconditions:	<ul style="list-style-type: none"> • The administrator approves or rejects the product.
Sequence of event:	<ol style="list-style-type: none"> 1) Administrator: enters the section dedicated to requests for approval of products. 2) System: displays all requests that was sent. 3) Administrator: will see all requests and browse one by one. 4) System: displays all the attached data that it placed by seller. 5) Administrator: will review that data to ensure that all data conforms to the specifications and requirement. 6) Administrator: if all the data conform to the specifications and requirement. 7) Administrator: if everything was done right, he will accept that product. 8) System: will send massage to seller to pay and send the receipt. 9) Administrator: will receive the payment prove and check it. 10) System: sends mail to seller with approval
Exceptions:	<ul style="list-style-type: none"> • Error in Database. • Product data does not match specifications. • If Seller uploaded images for product but not from all angles • If Seller uploaded product in wrong Category • If Seller uploaded wrong specification of the product • All refuse conditions will be sent to seller by email.

Name:	Participation in Auction Requests
ID:	use case 14.
Description:	The administration reviews the requests to join auction.
Primary Actor:	<ul style="list-style-type: none"> • Administrator.
Preconditions:	<ul style="list-style-type: none"> • The administrator log in to system. • Buyer asked to join the auction.
Postconditions:	<ul style="list-style-type: none"> • The administrator approves or rejects the requests.
Sequence of event:	<ol style="list-style-type: none"> 1) Administrator: enters the section dedicated to requests to join the auction 2) System: displays all requests that was sent. 3) Administrator: will see all requests and browse one by one. 4) System: displays all the attached data that it placed by shopper. 5) Administrator: checks every deposit with receipt of all buyers who applied the requests of the auction. 6) Administrator: if the validation go right will accept the request.
Exceptions:	<ul style="list-style-type: none"> • If buyer didn't pay full deposit • If he/her don't pay the auction • All refuse conditions will be sent to seller by email.

2.2 Sequence Diagram

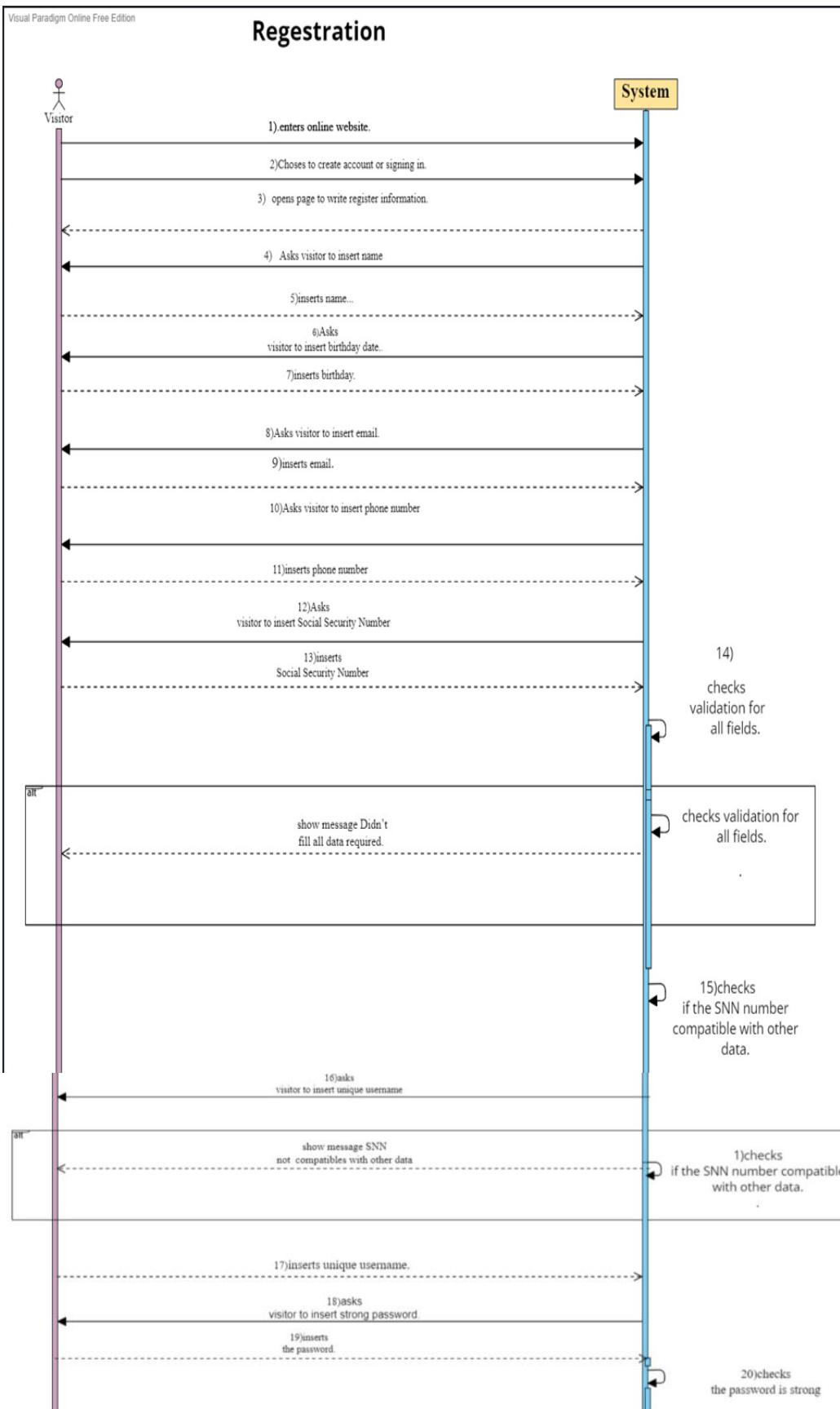


Figure 3 Registration

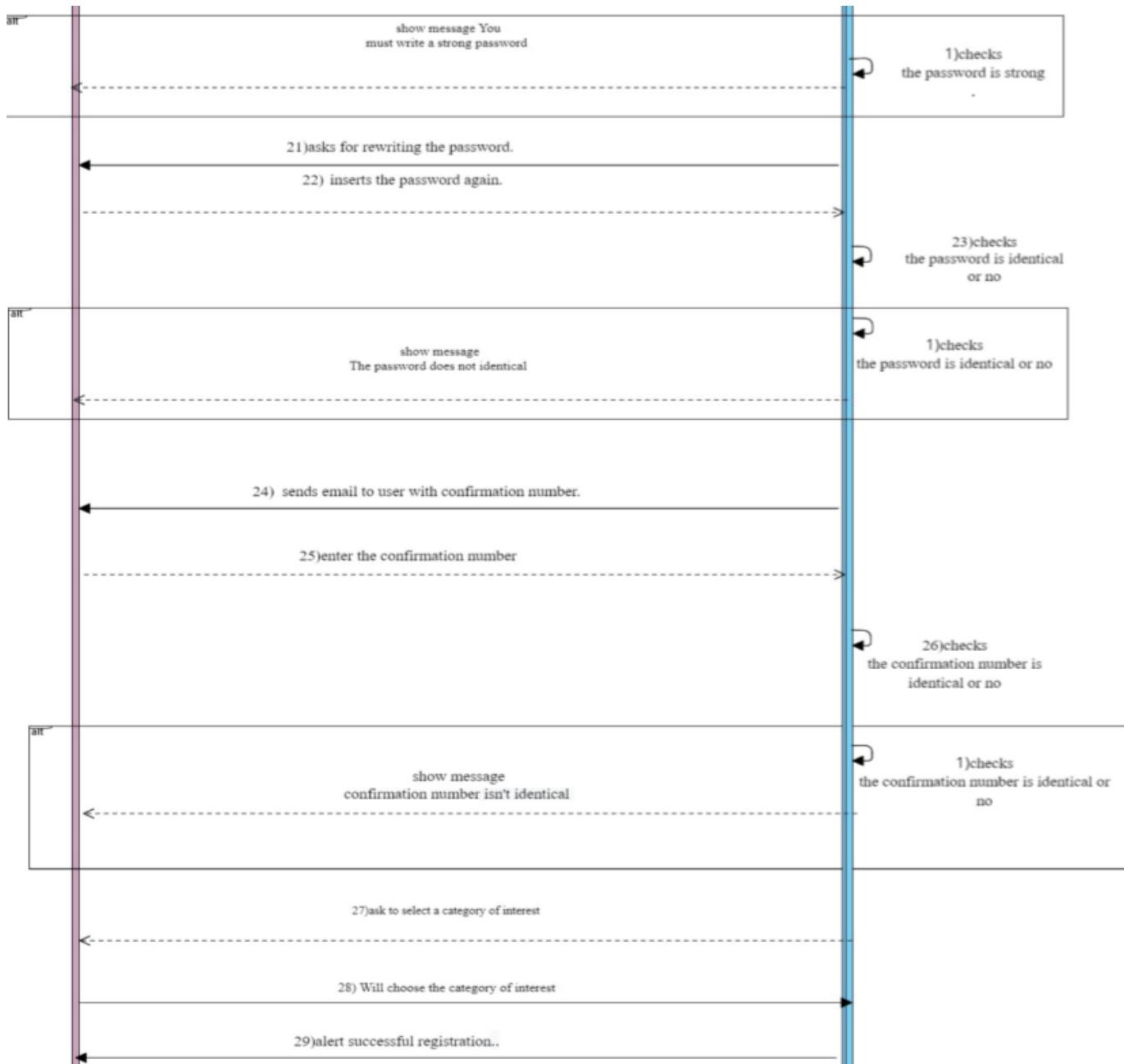


Figure 4 Regestration [Continue]

Visual Paradigm Online Free Edition

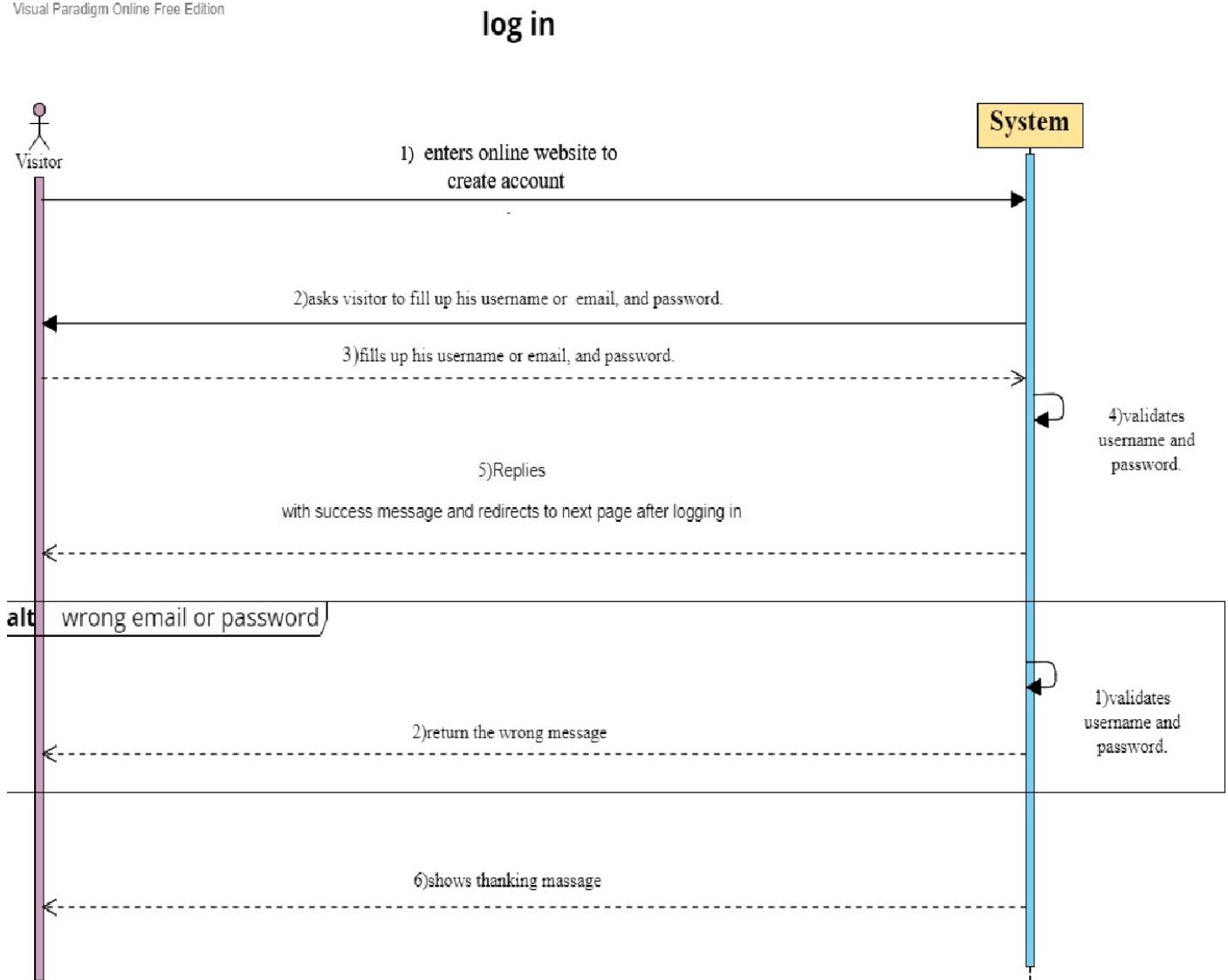


Figure 5 Login

Free Edition

Shopping

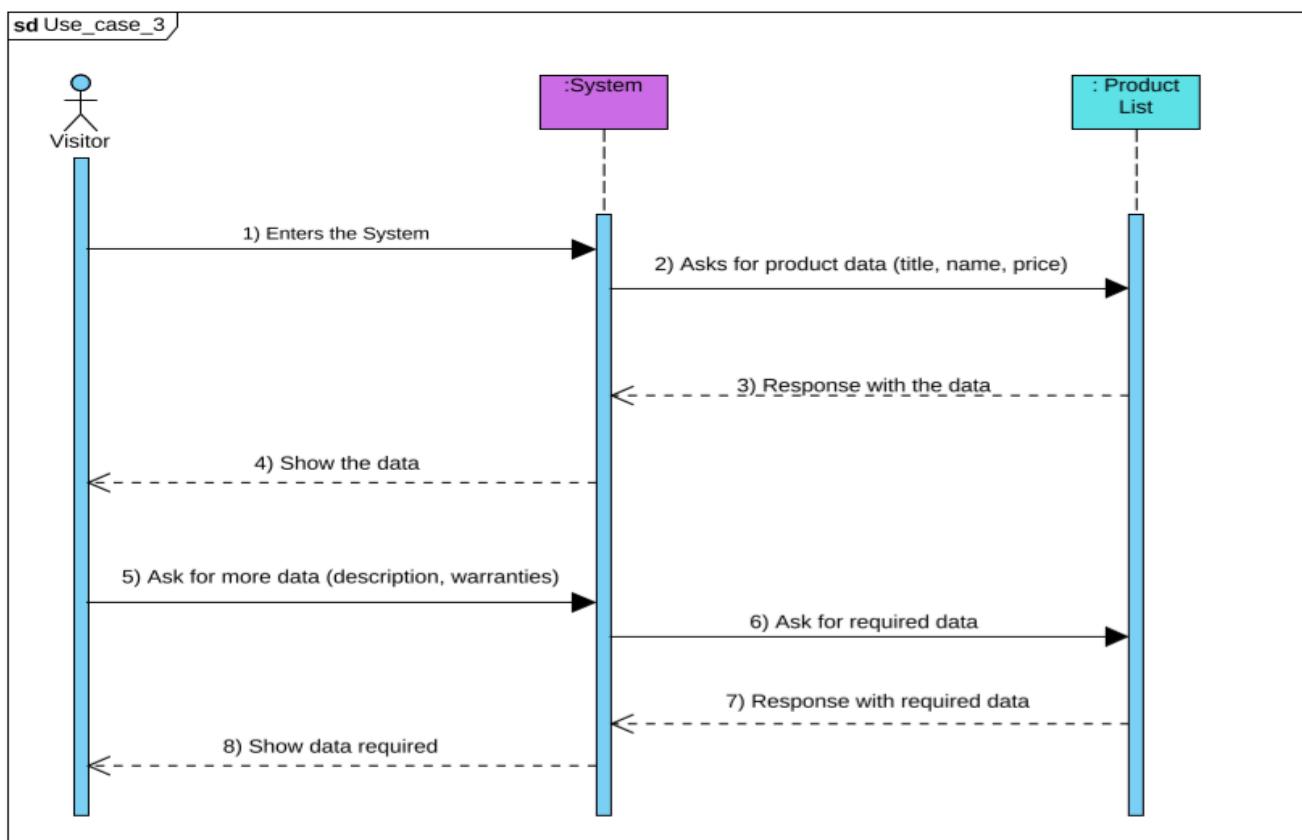


Figure 6 Shopping

Visual Paradigm Online Free Edition

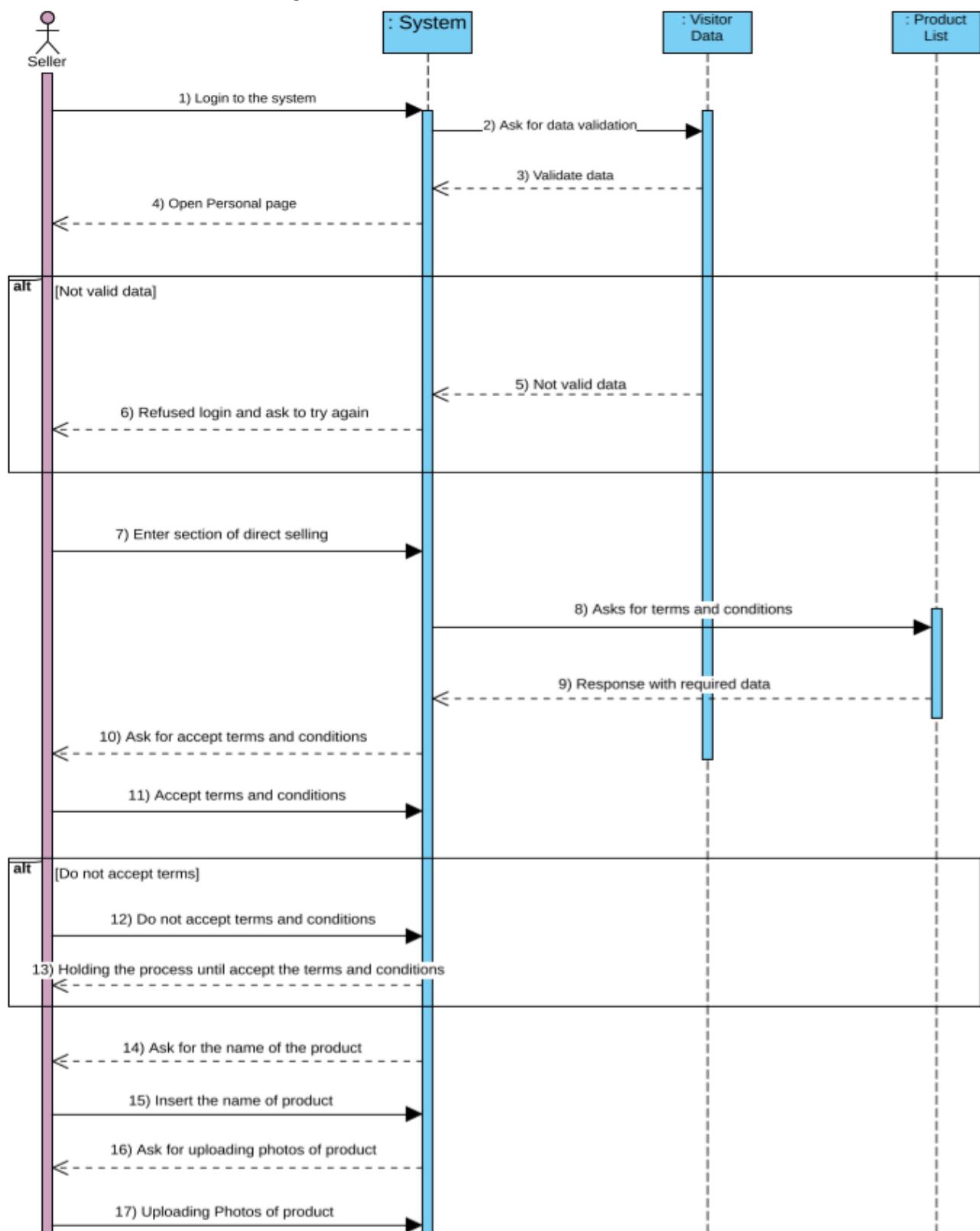
Upload Product (Instant sale)

Figure 7 Upload Product (instance Sale)

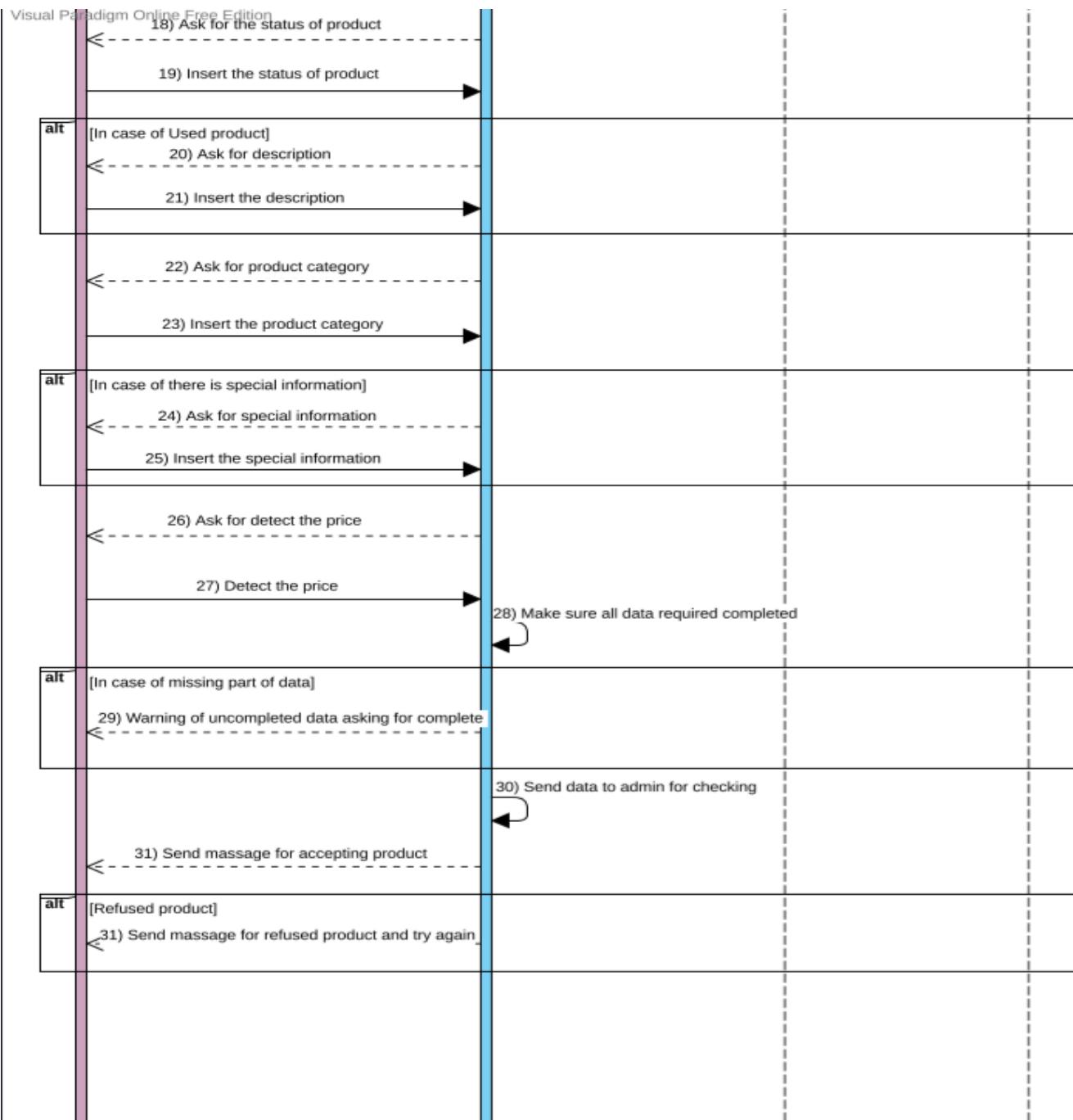


Figure 8 Upload Product (instance Sale) [Cont]

Visual Paradigm Online Free Edition

Upload Product (Schedule Auction)

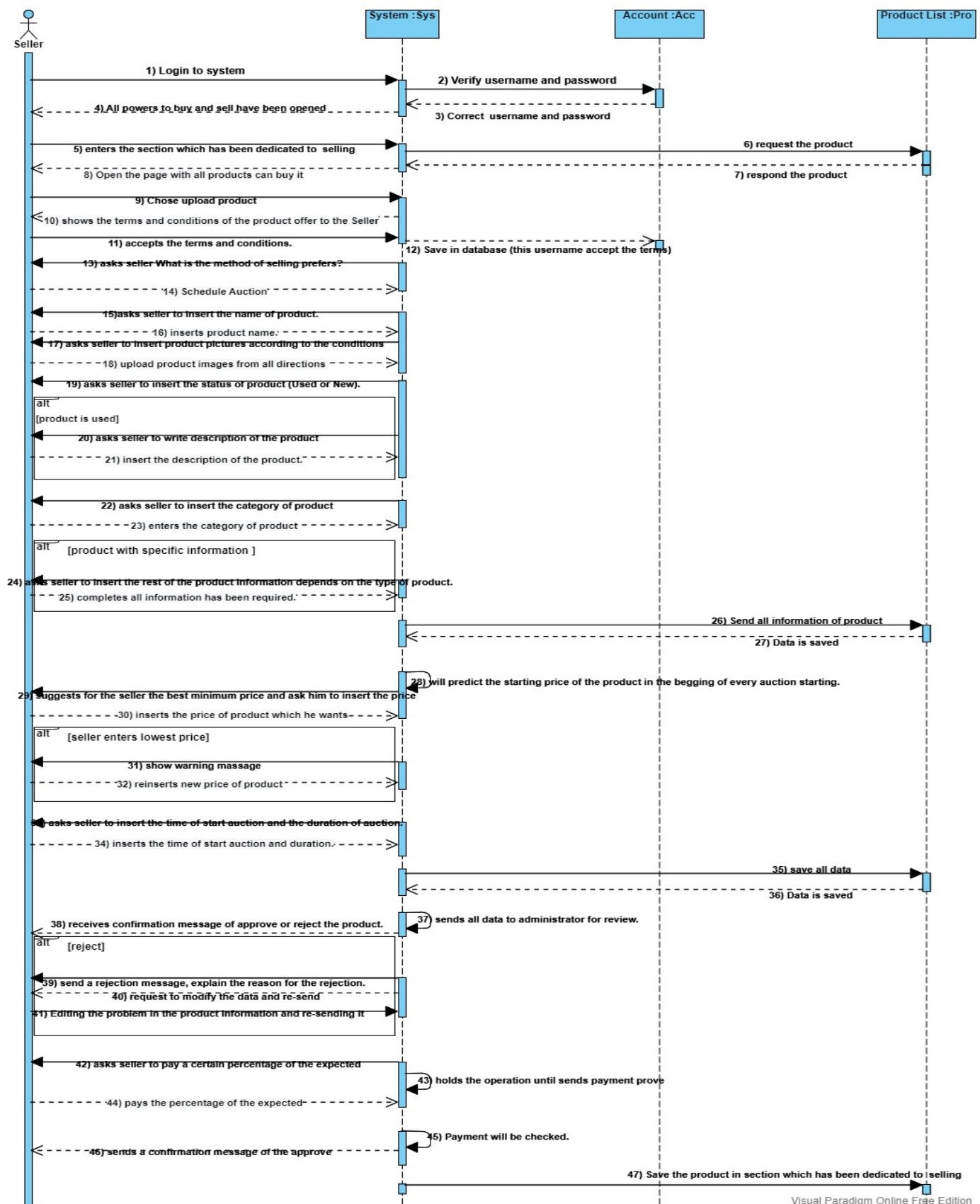
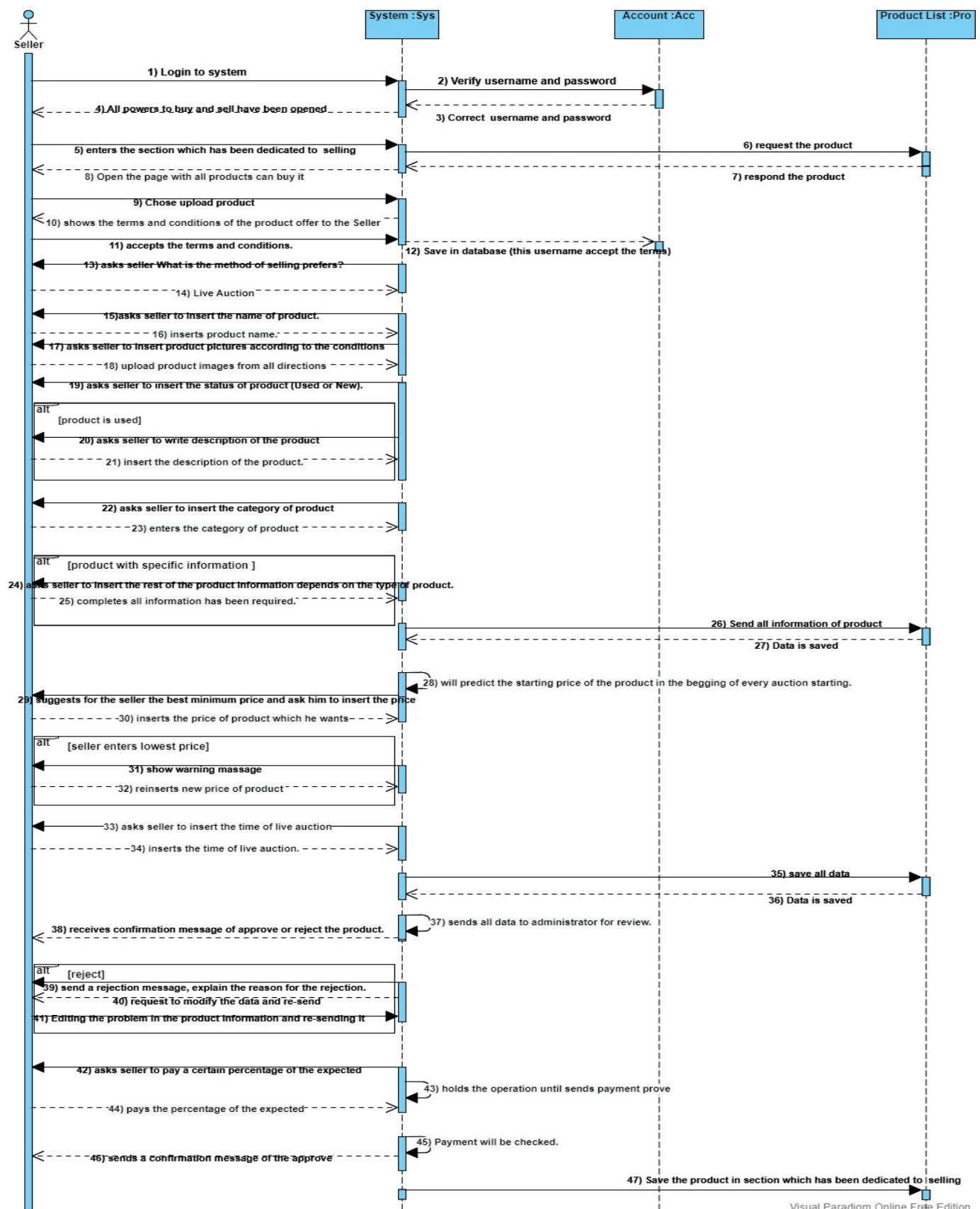


Figure 9 Upload Product (Schedule Sale)

Visual Paradigm Online Free Edition

Upload Product (Live Auction)

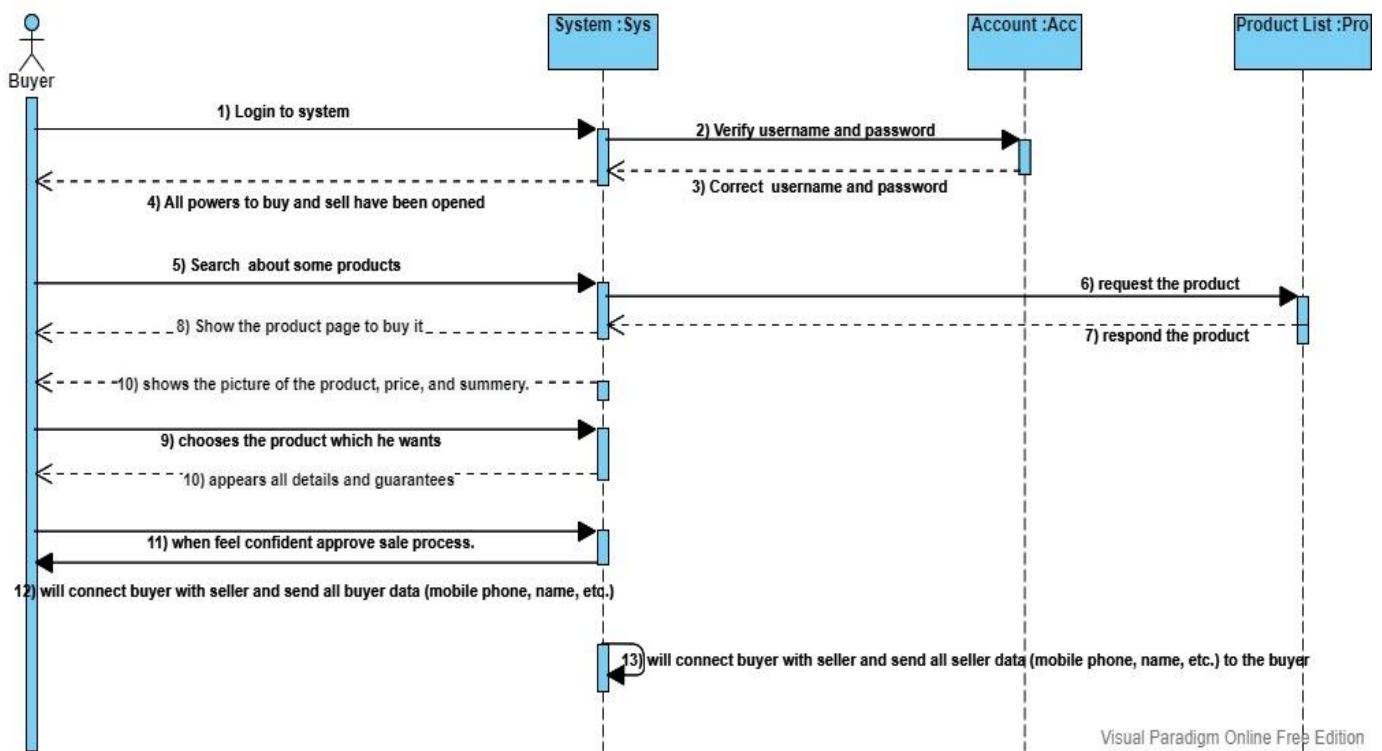


Visual Paradigm Online Free Edition

Figure 10 Upload Product Live

Visual Paradigm Online Free Edition

Instant Purchase



Visual Paradigm Online Free Edition

Figure 11 instance Purchase

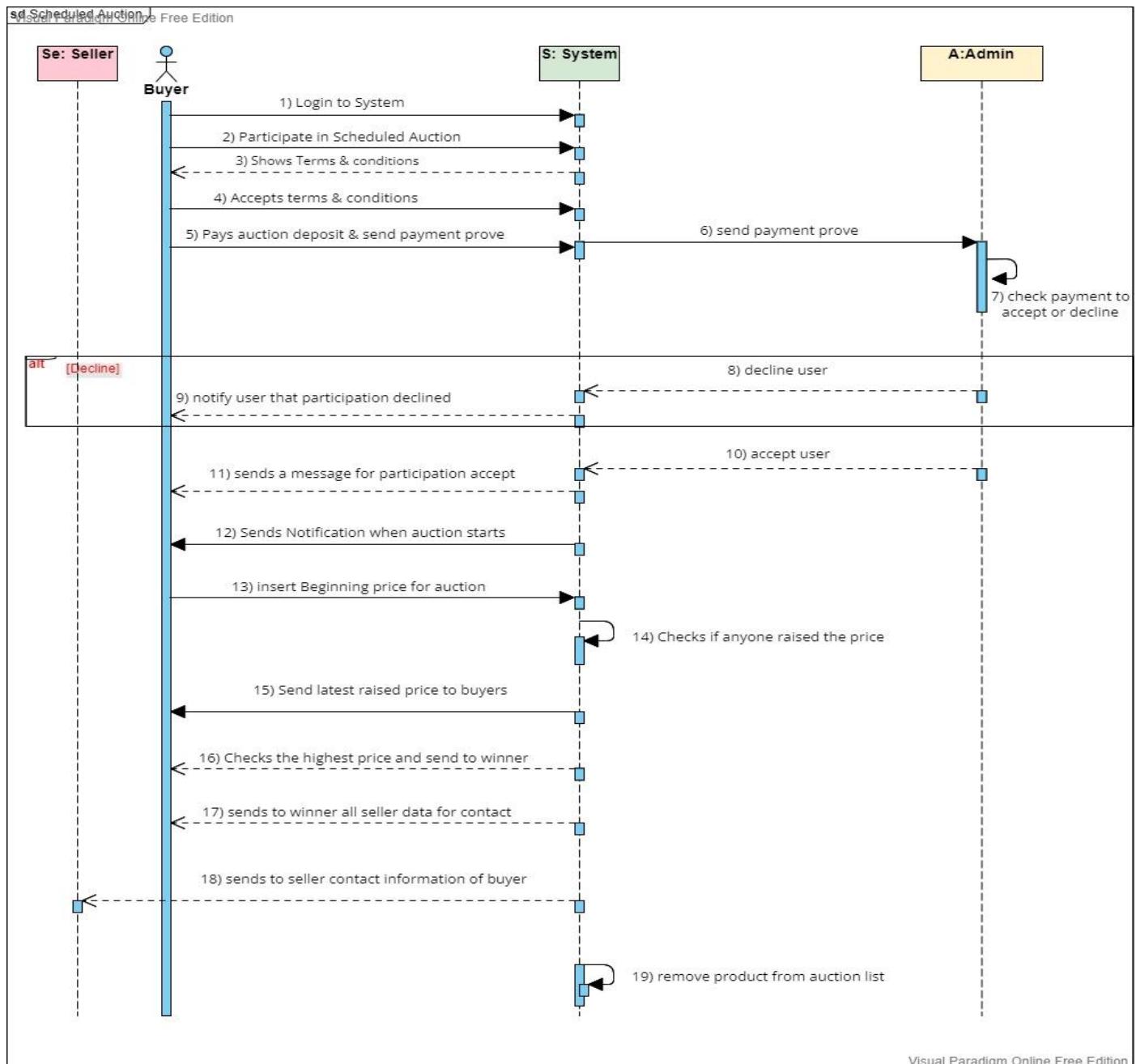


Figure 12 Schedule Auction

Visual Paradigm Online Free Edition

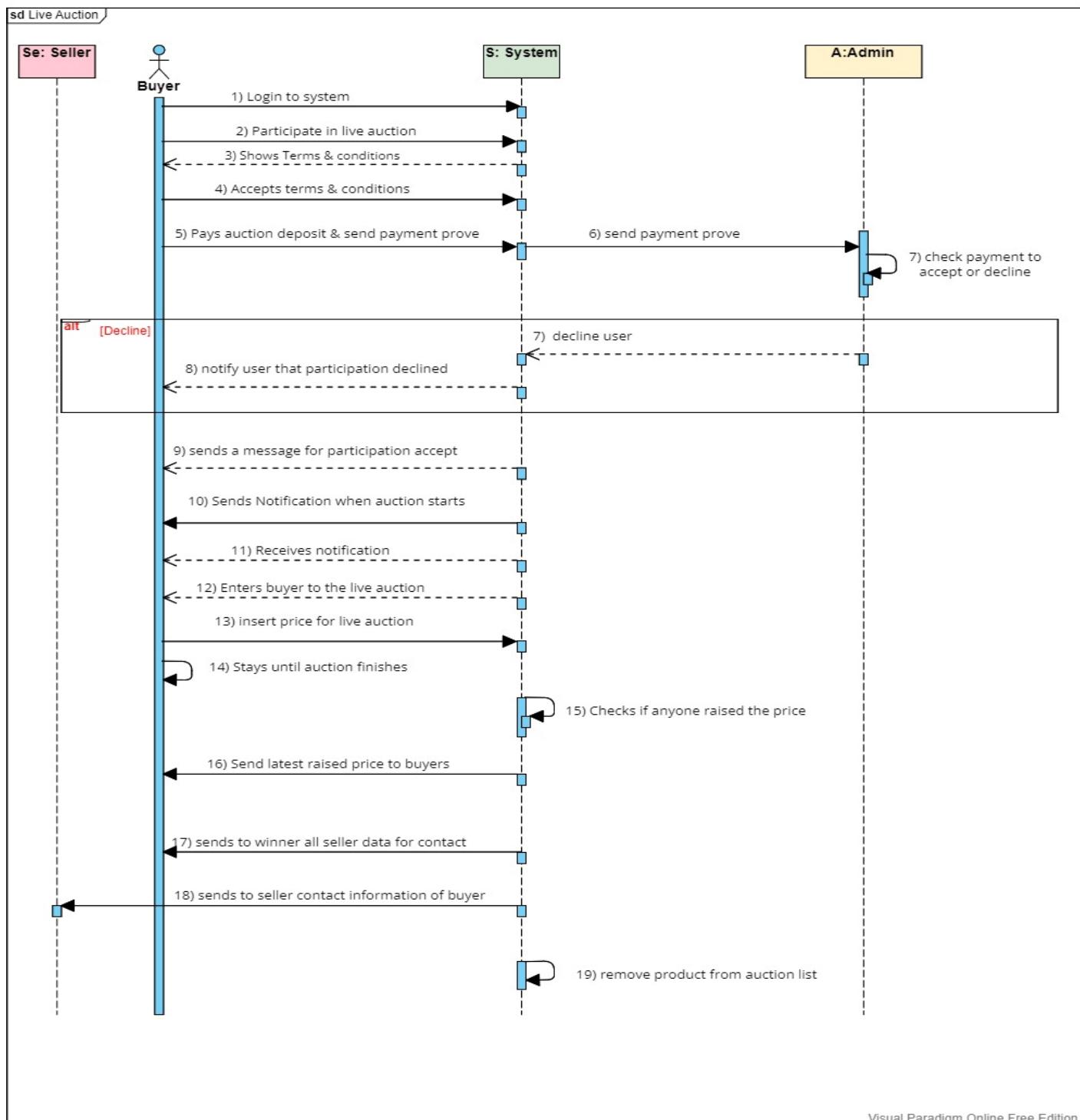


Figure 13 Live Auction

Visual Paradigm Online Free Edition

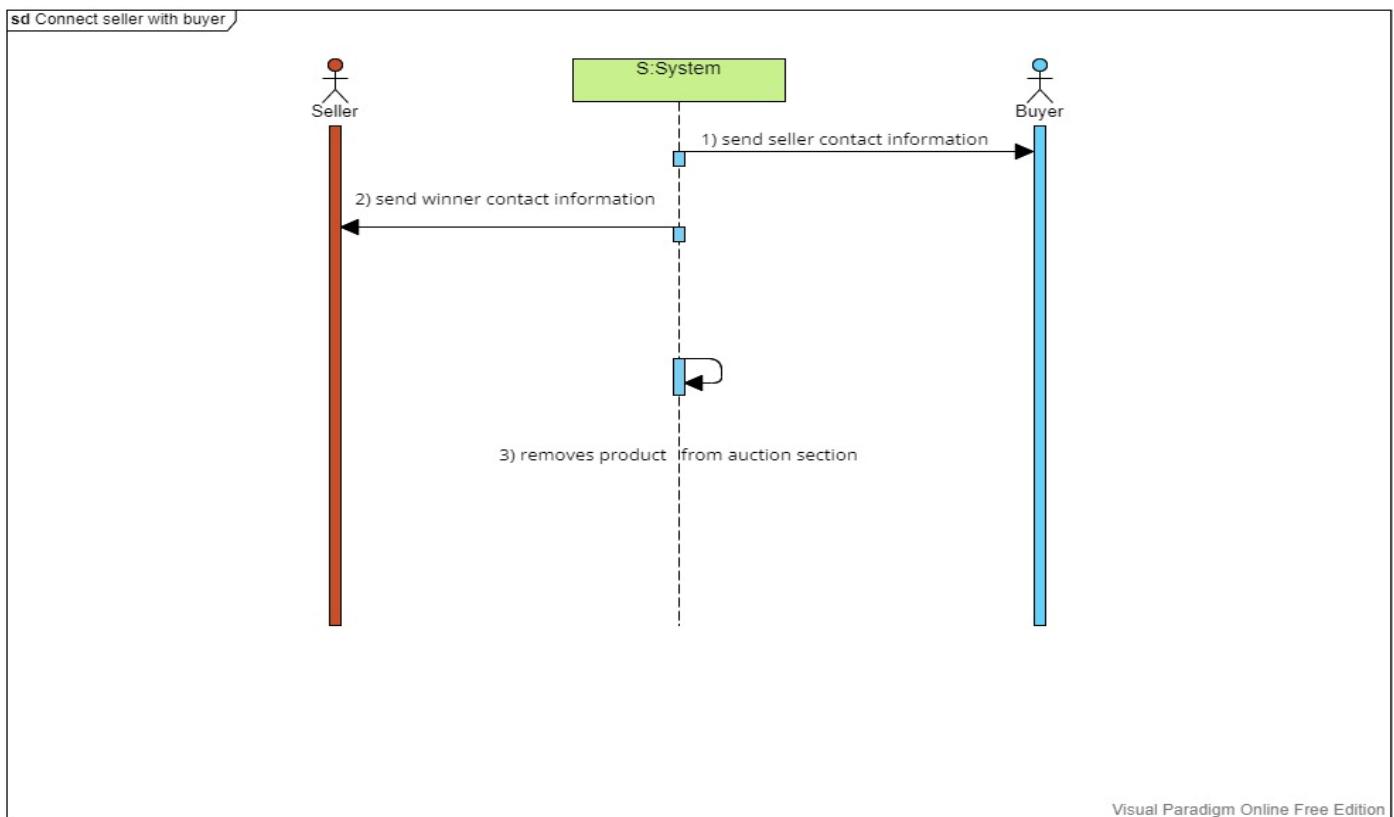


Figure 14 Connect Seller with Buyer

Deal Complete

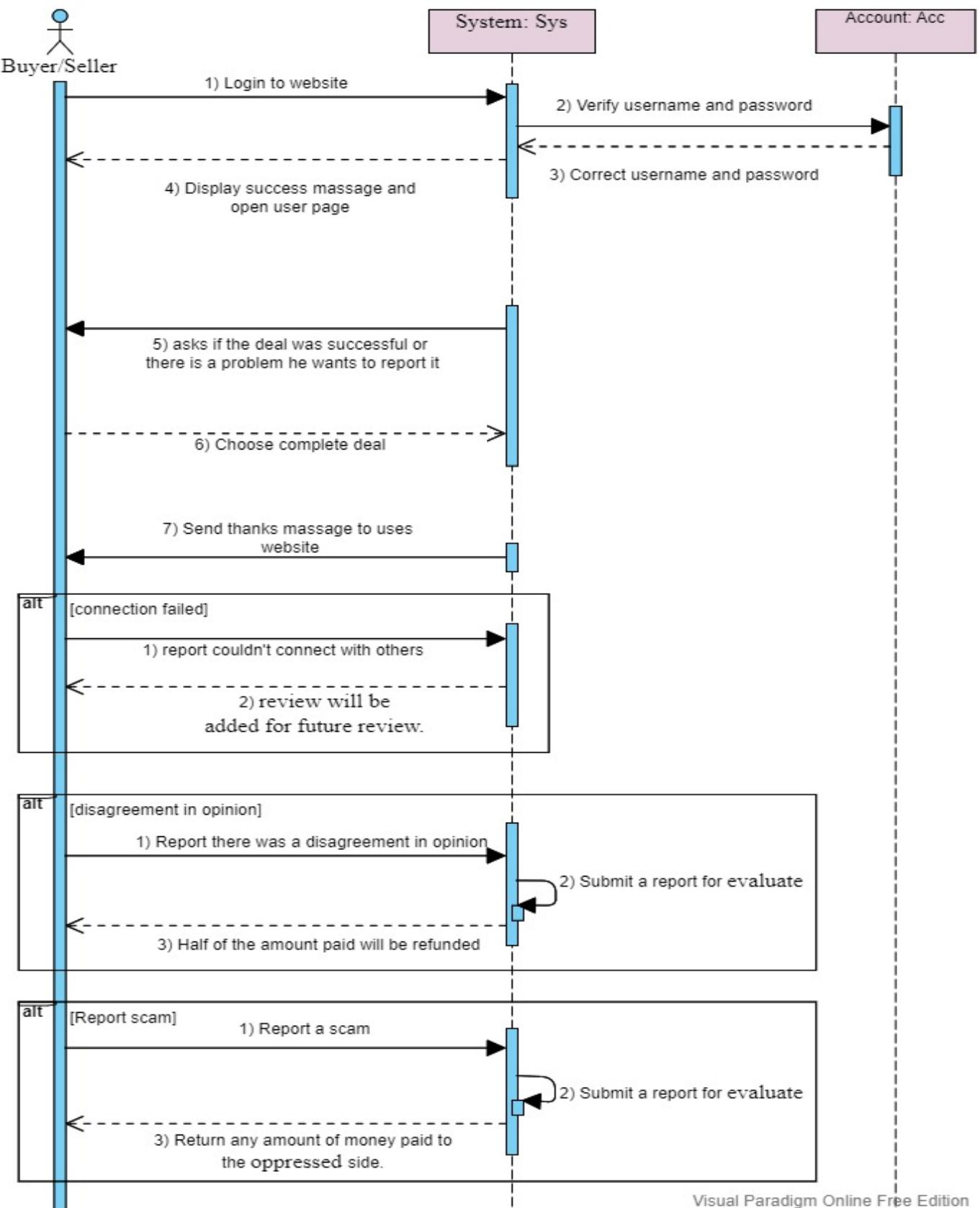


Figure 15 Deal Complete

Visual Paradigm Online Free Edition

Report problem

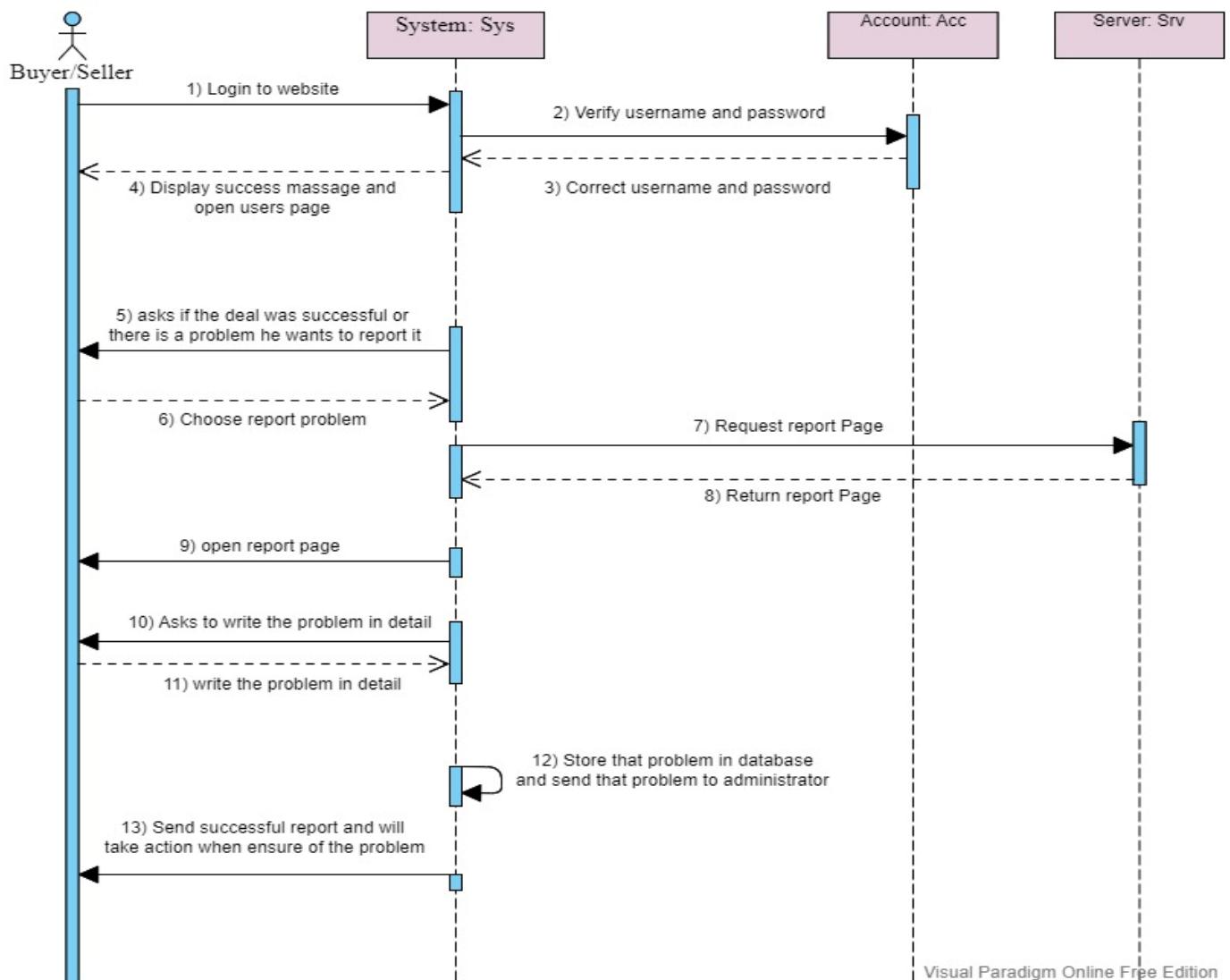


Figure 16 Report Problem

Visual Paradigm Online Free Edition

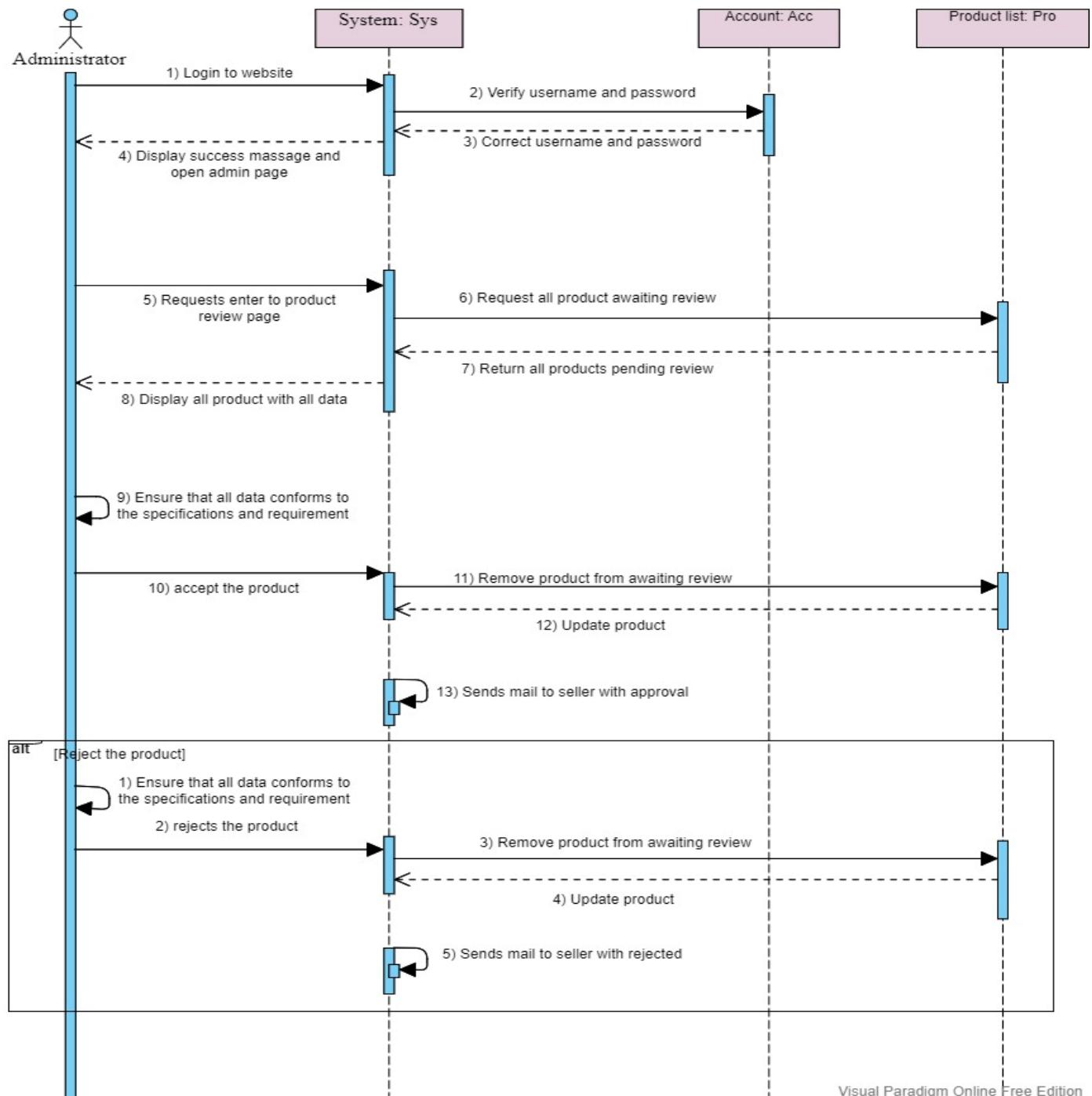
Product review

Figure 17 Product Review

Visual Paradigm Online Free Edition

Participation in Auction Requests

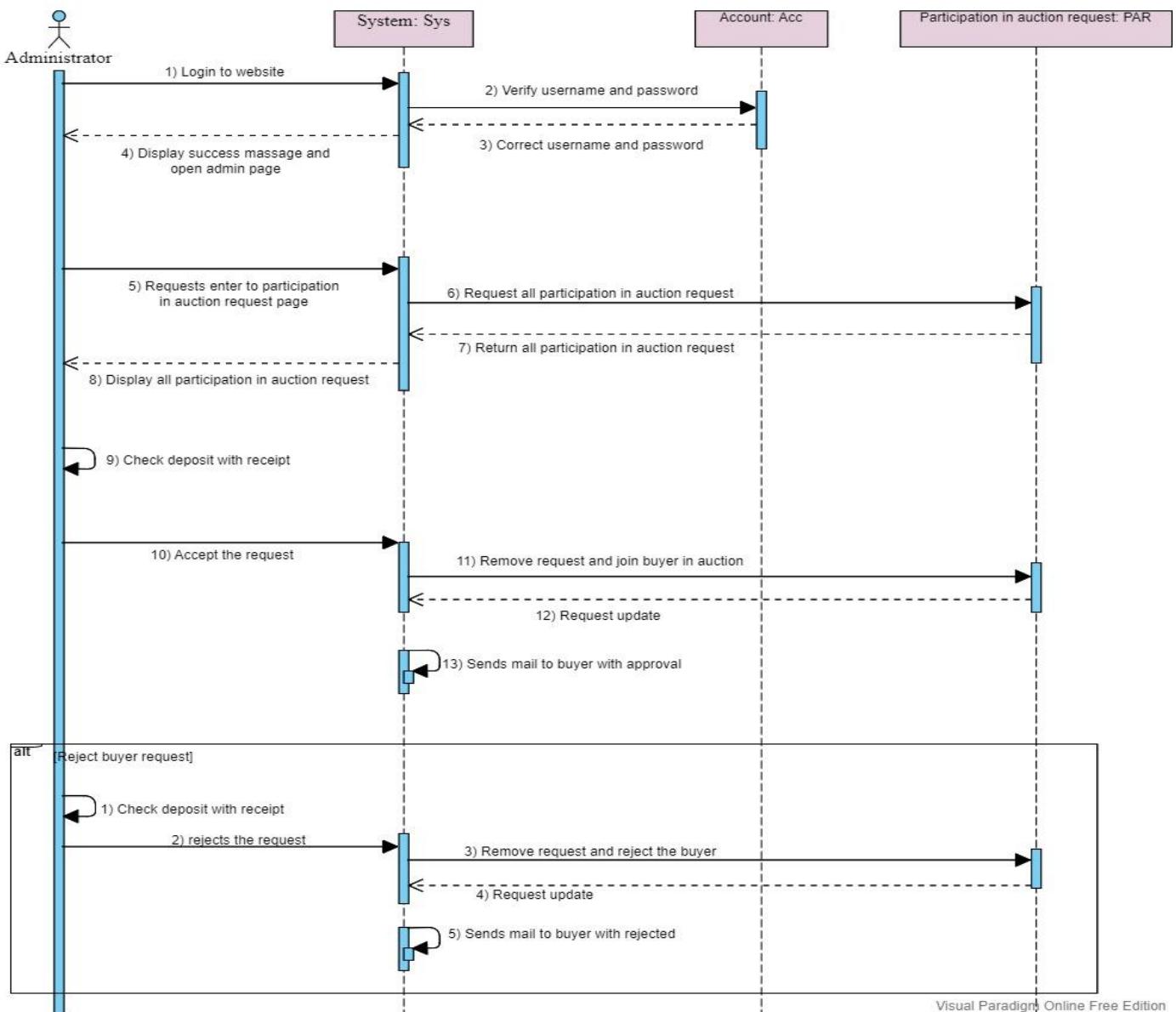


Figure 18 Participation in Auction Request

2.3 Activity Diagram

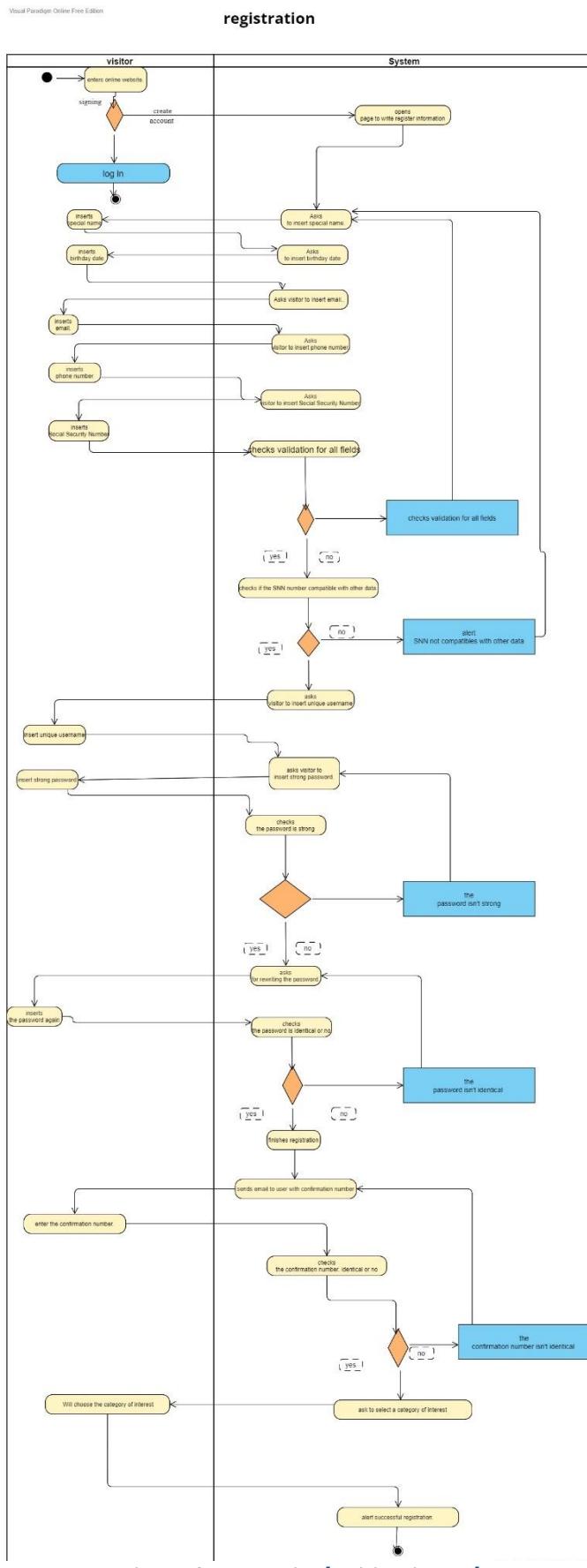


Figure 19 Registration [Activity Diagram]

Visual Paradigm Online Free Edition

log in

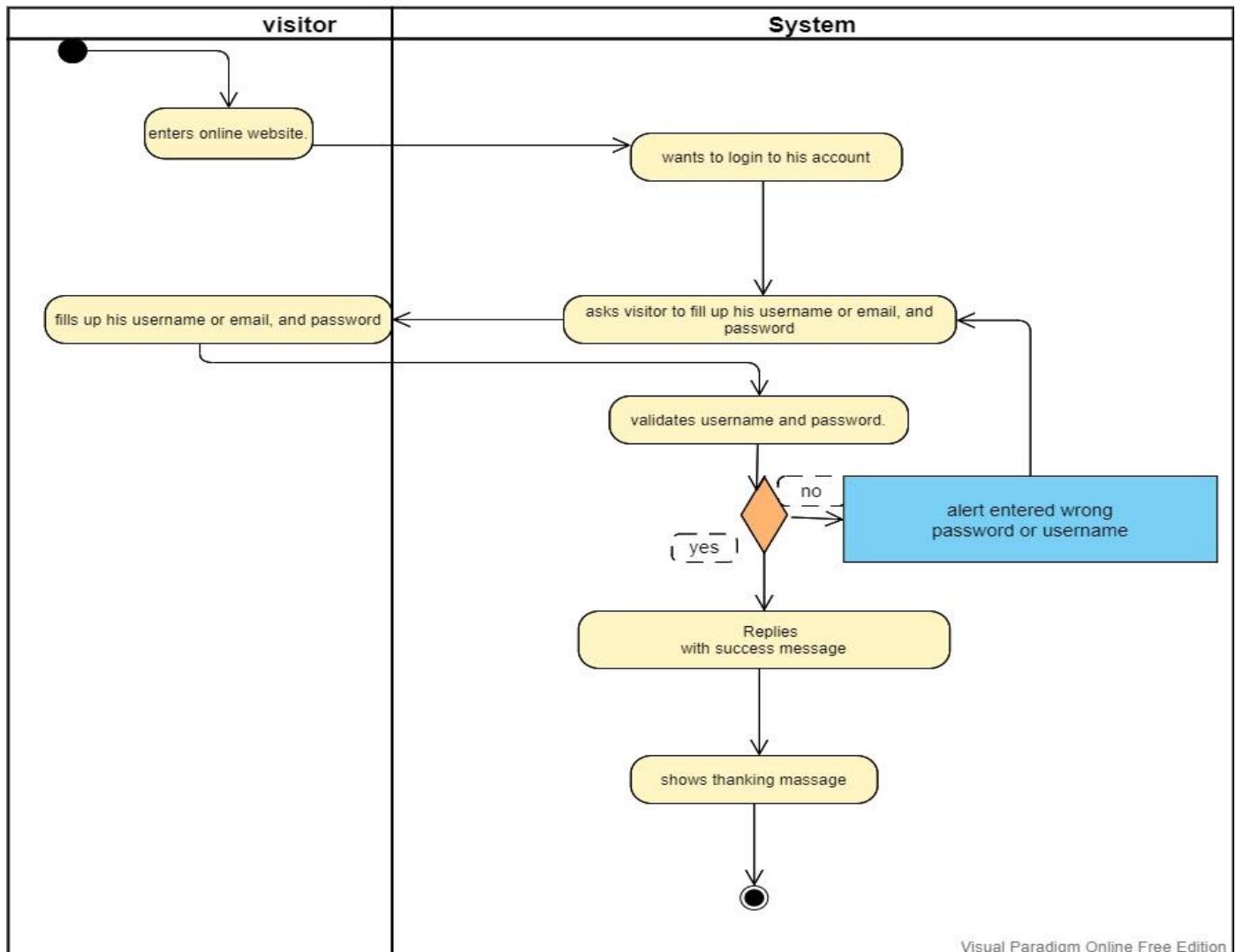


Figure 20 Login [Activity Diagram]

Shopping

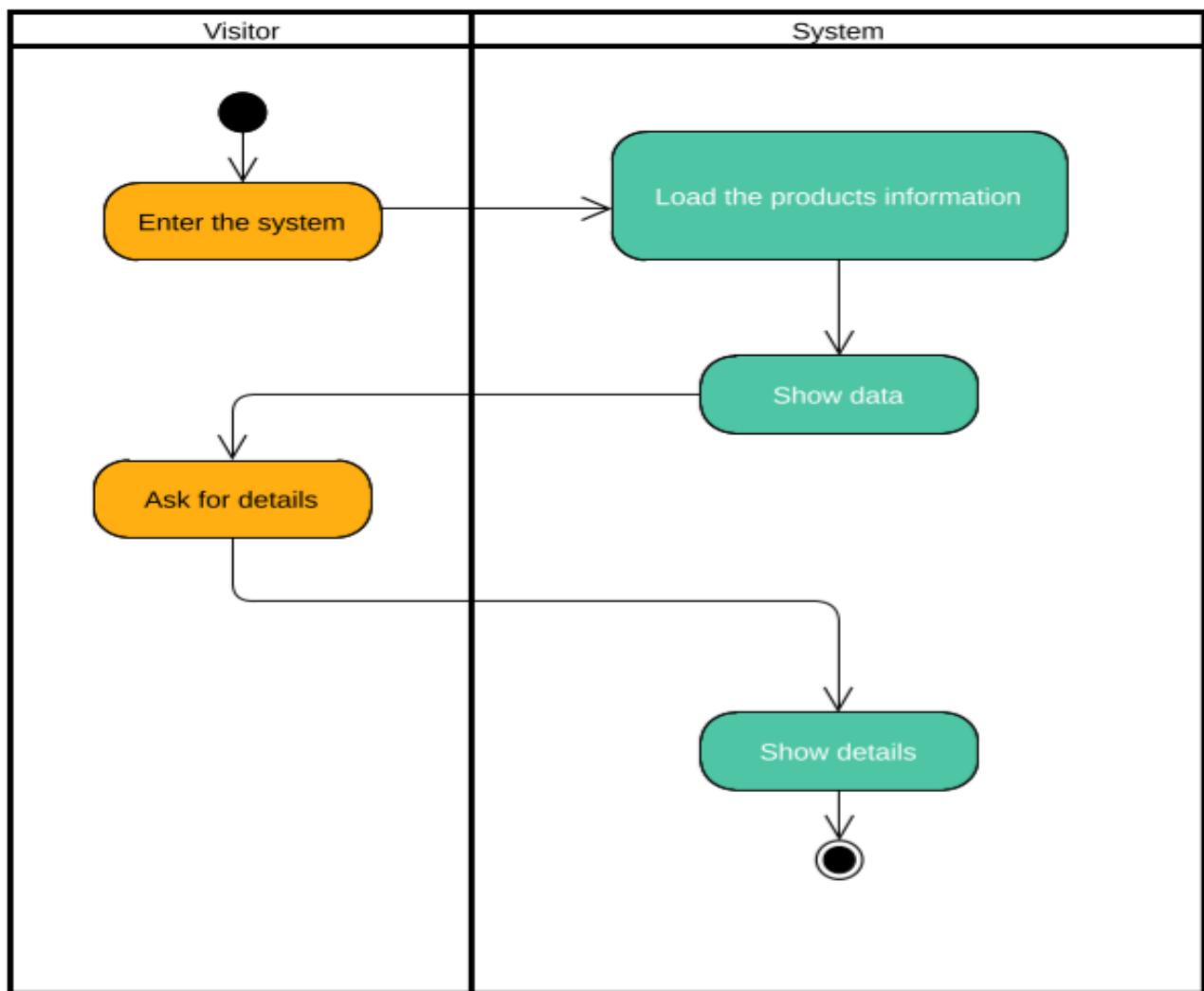


Figure 21 Shopping [Activity Diagram]

Uploading Product (instant sale)

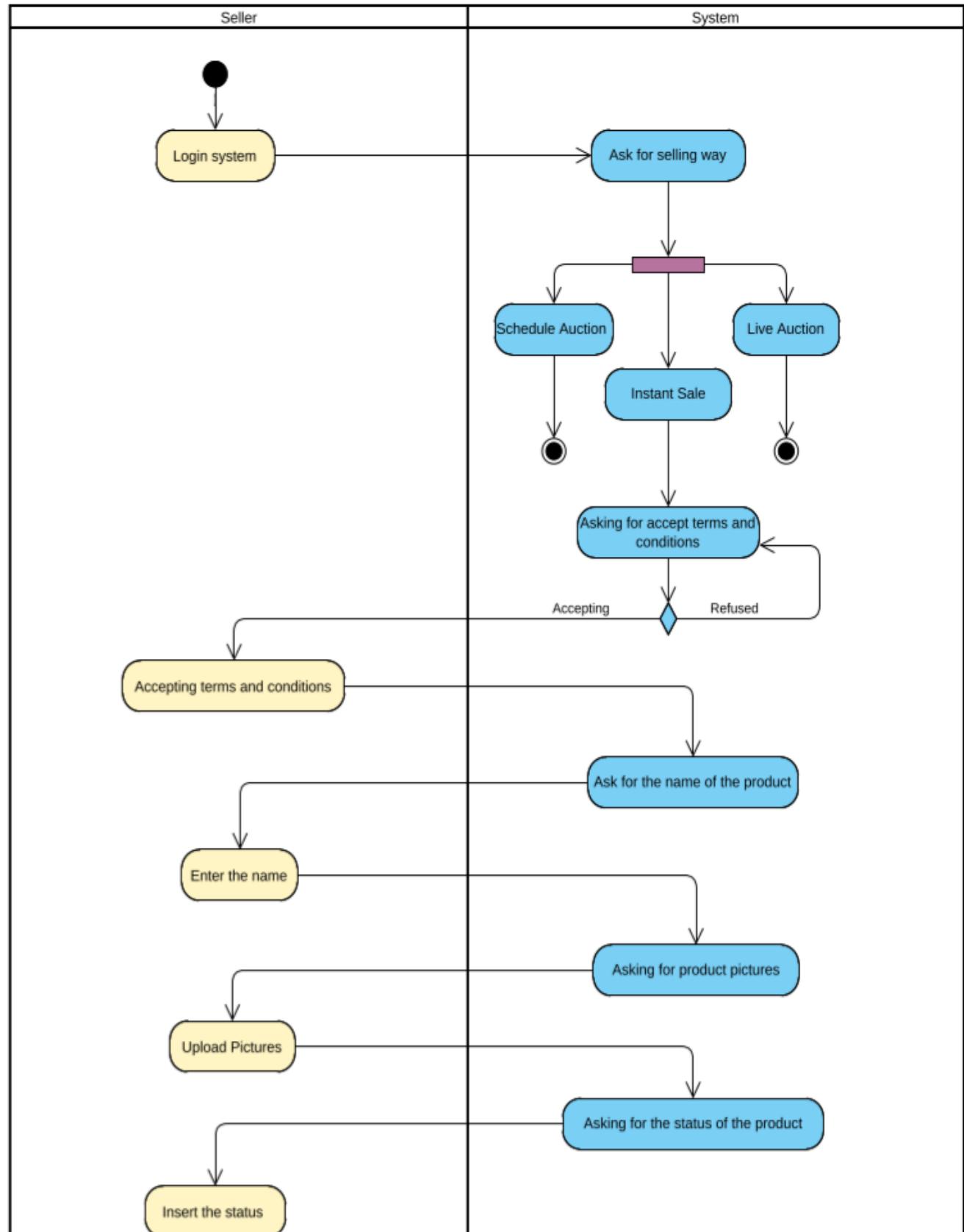
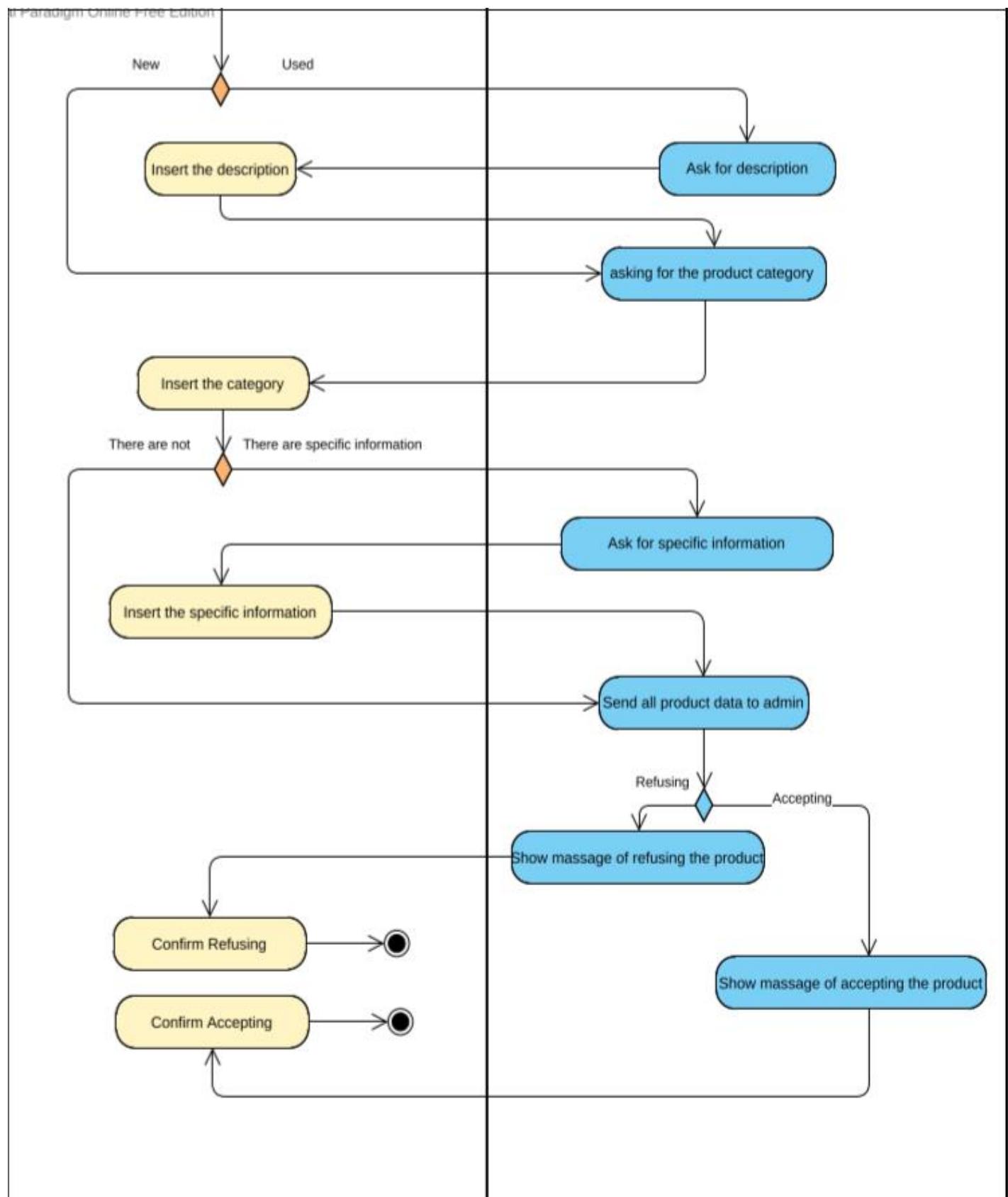


Figure 22 Upload Product [Activity Diagram]



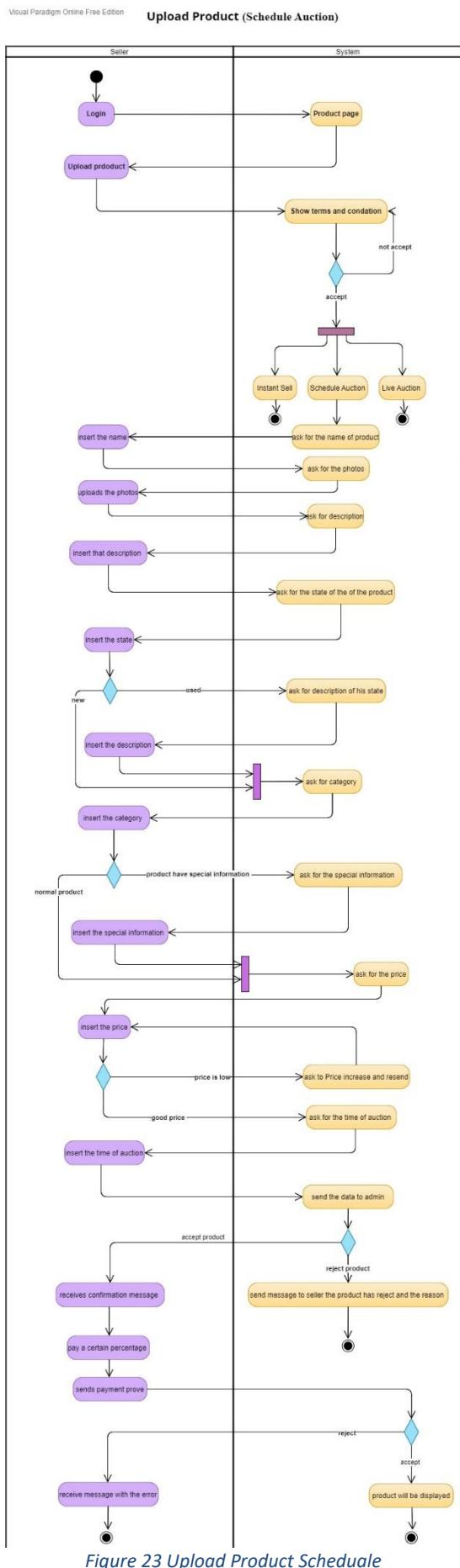


Figure 23 Upload Product Schedule

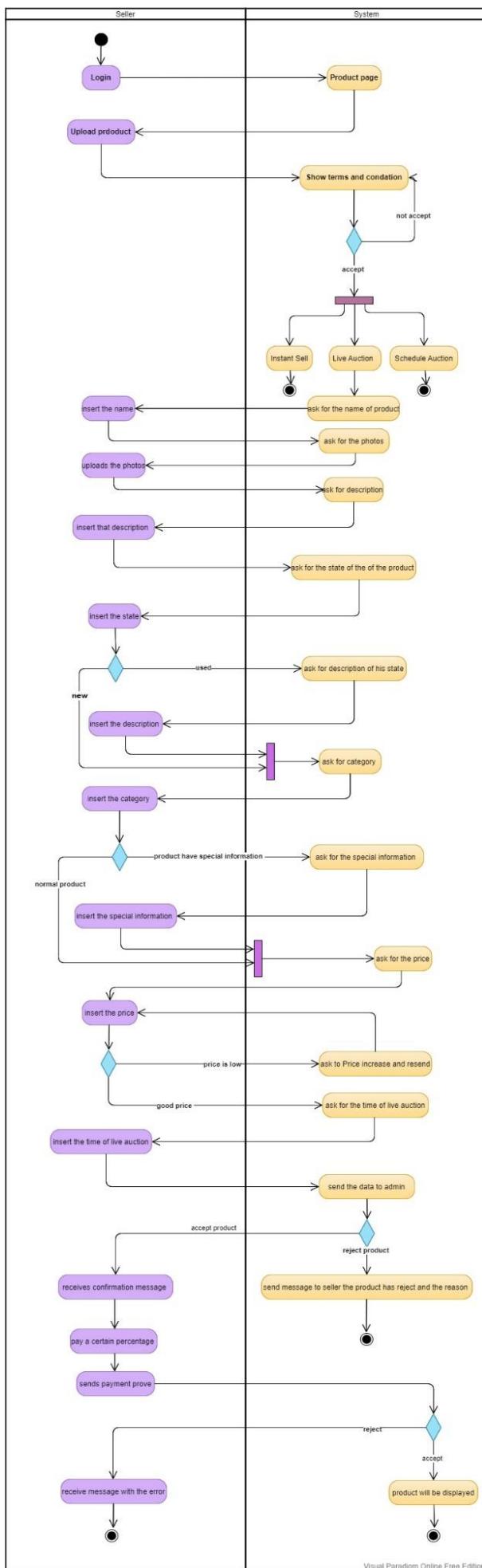


Figure 24 Upload Product Live

Visual Paradigm Online Free Edition

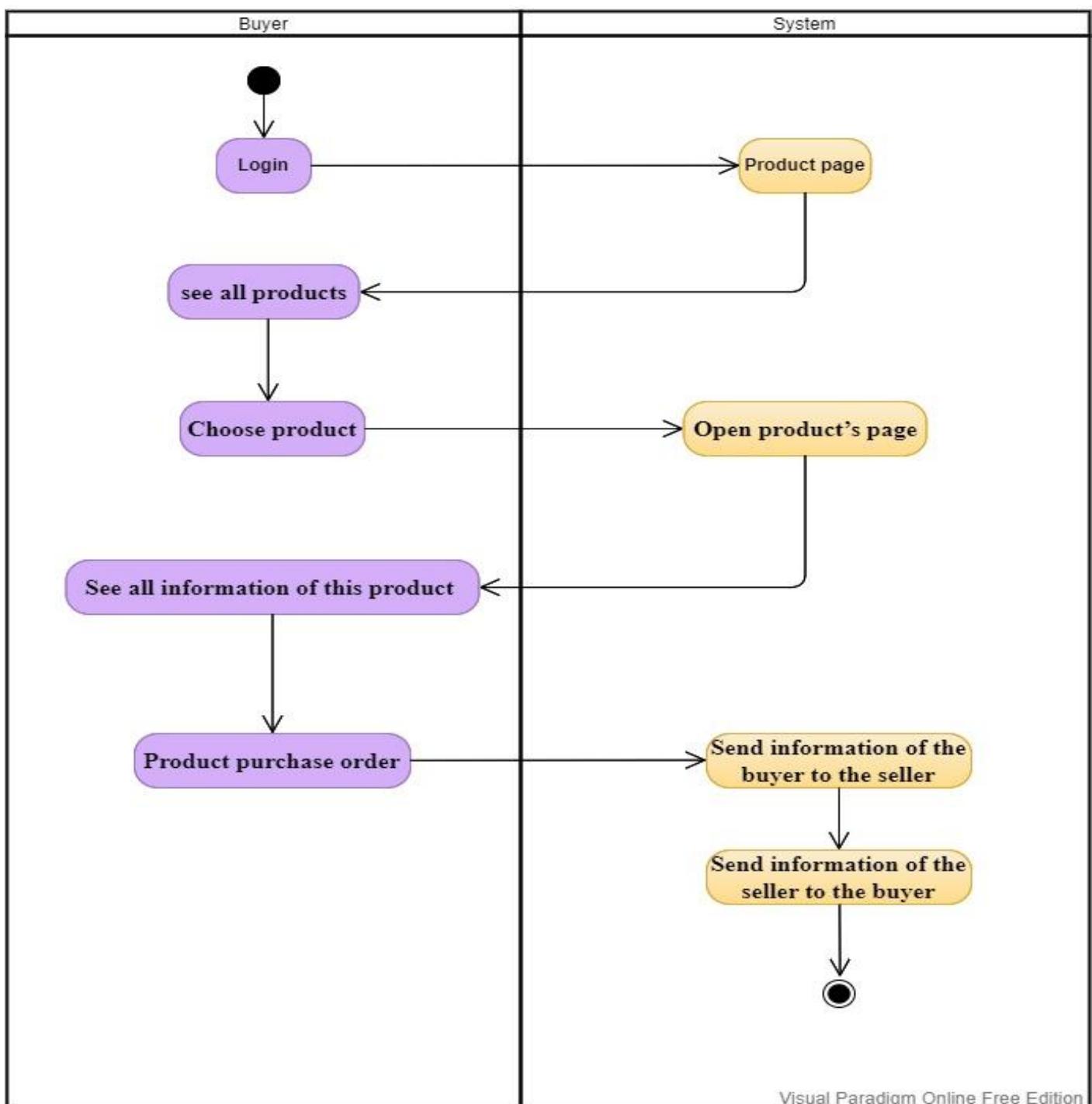
Instant Purchase

Figure 25 Instant Purchase

Live Auction

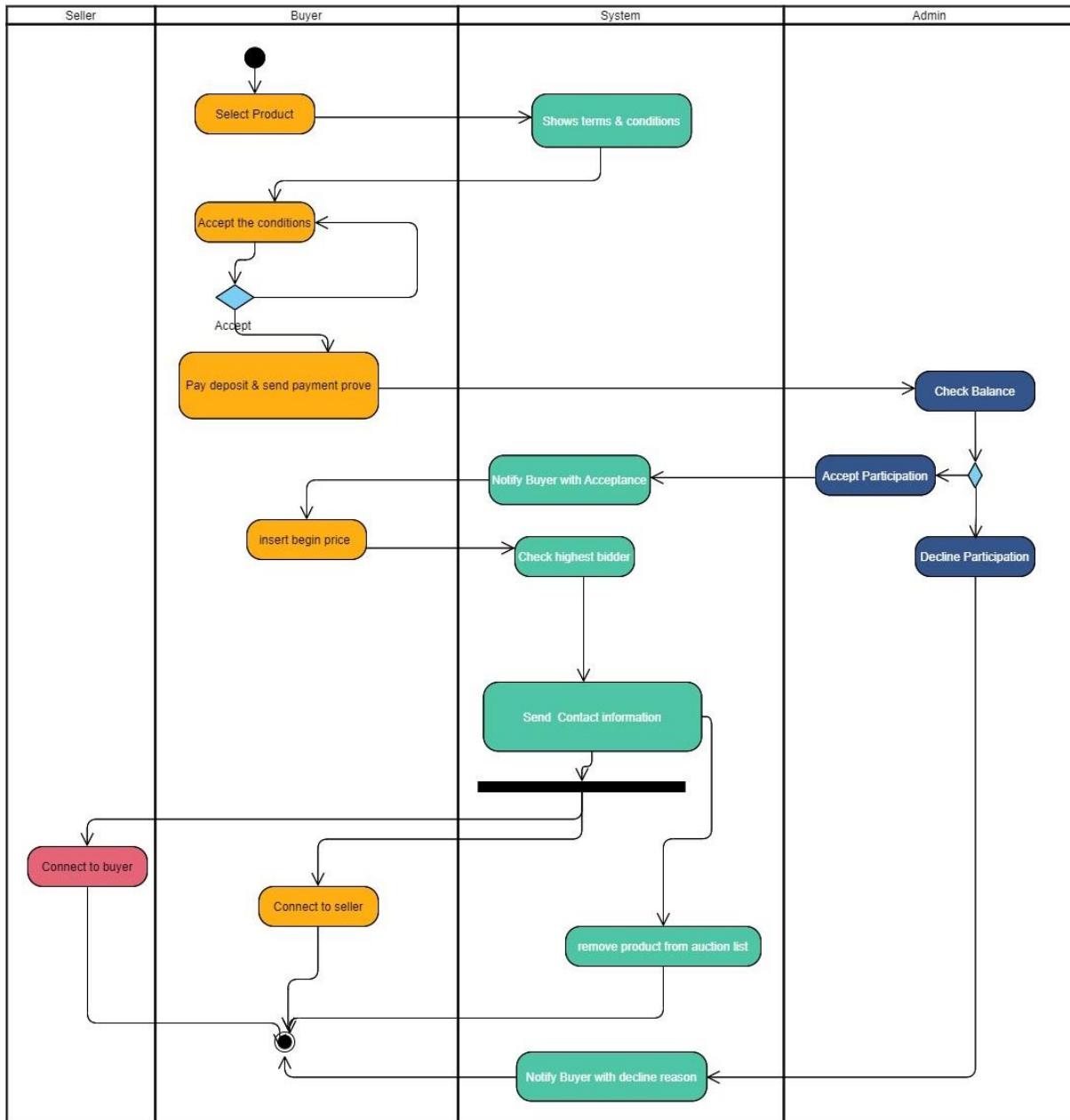
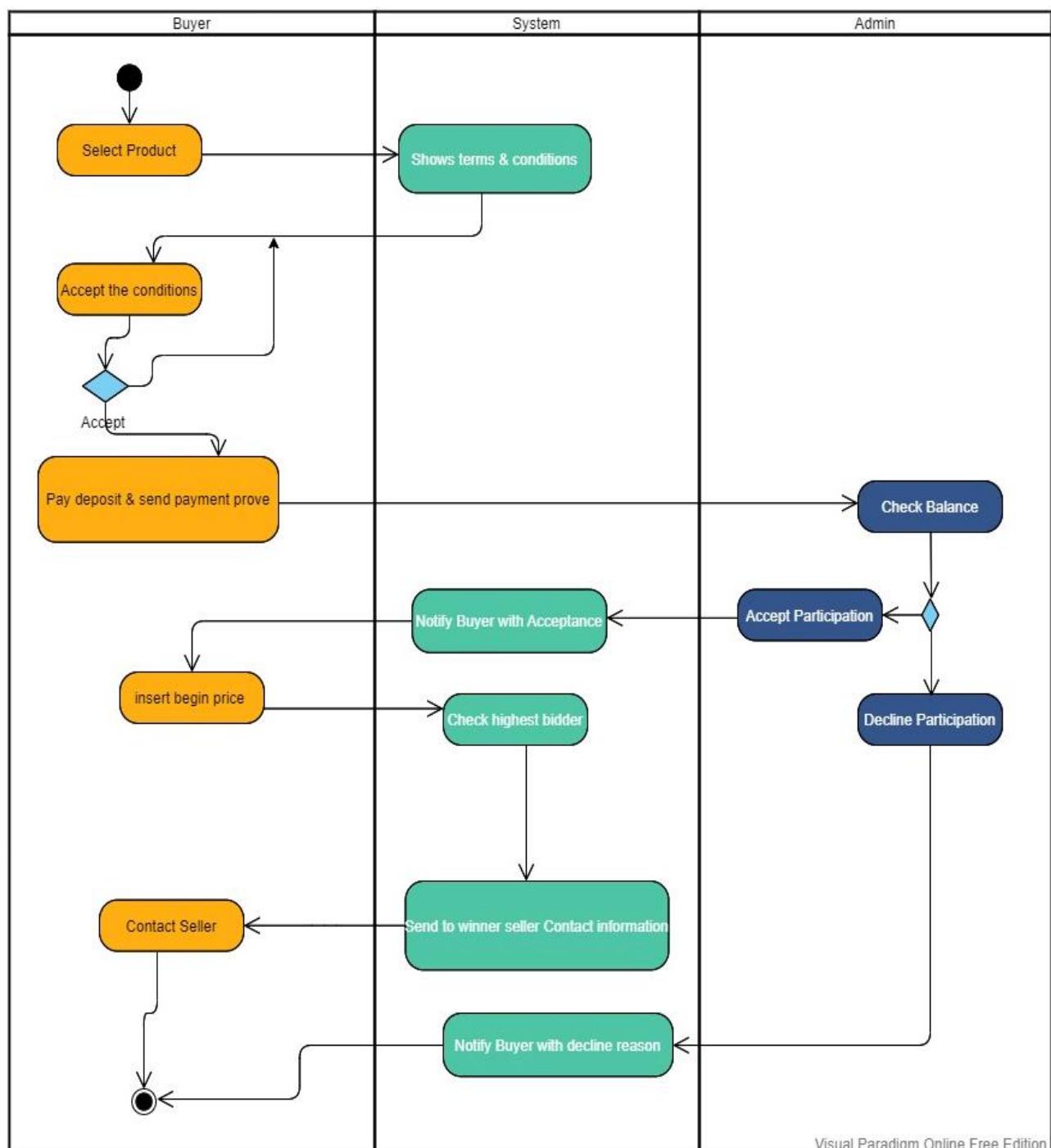


Figure 26 Live Auction

digram Online Free Edition



Visual Paradigm Online Free Edition

Figure 27 Schedule Auction

Connect Seller with Buyer

Visual Paradigm Online Free Edition

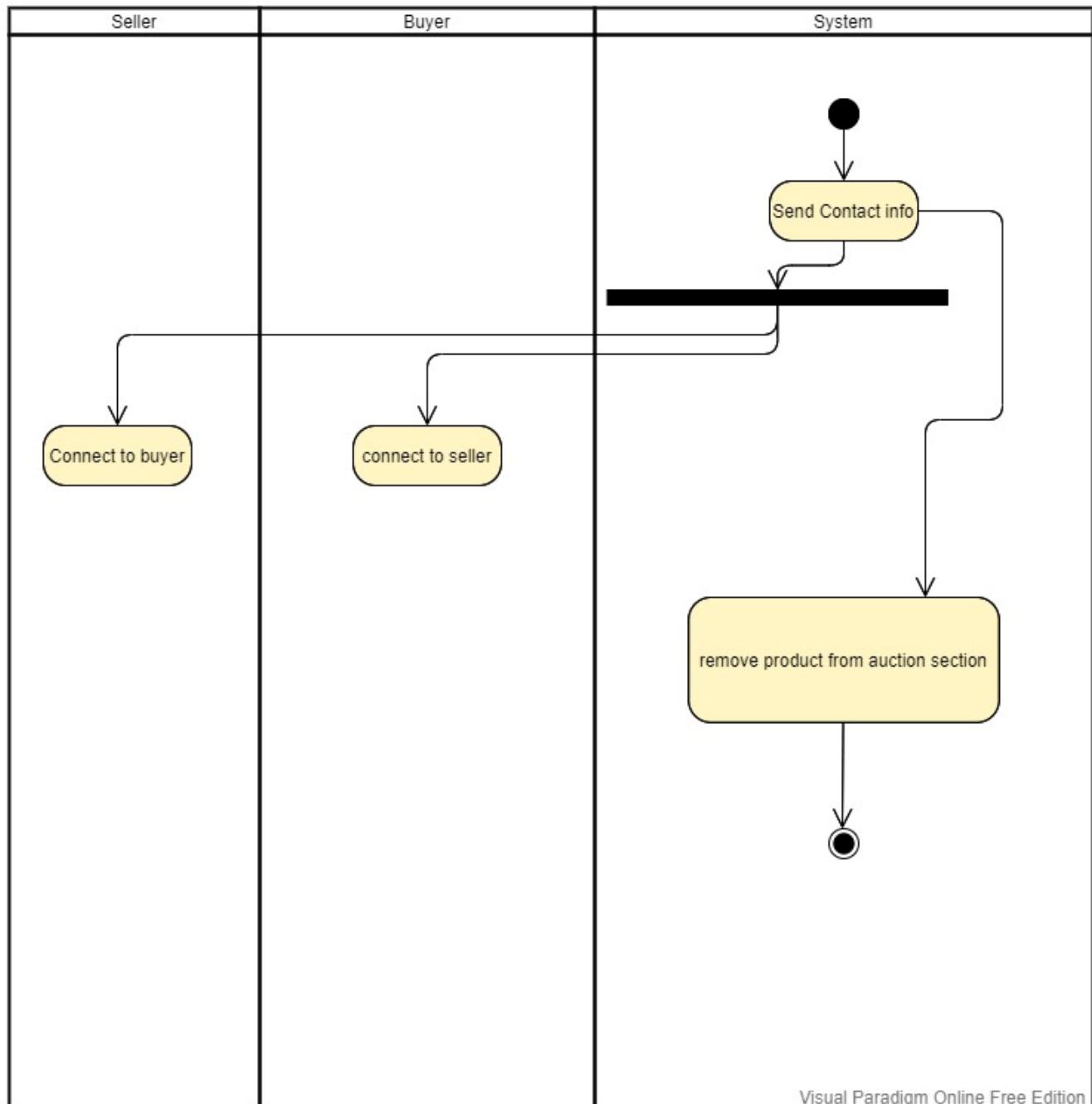


Figure 28 Connect Seller with Buyer 'AD'

Visual Paradigm Online Free Edition

Deal Complete

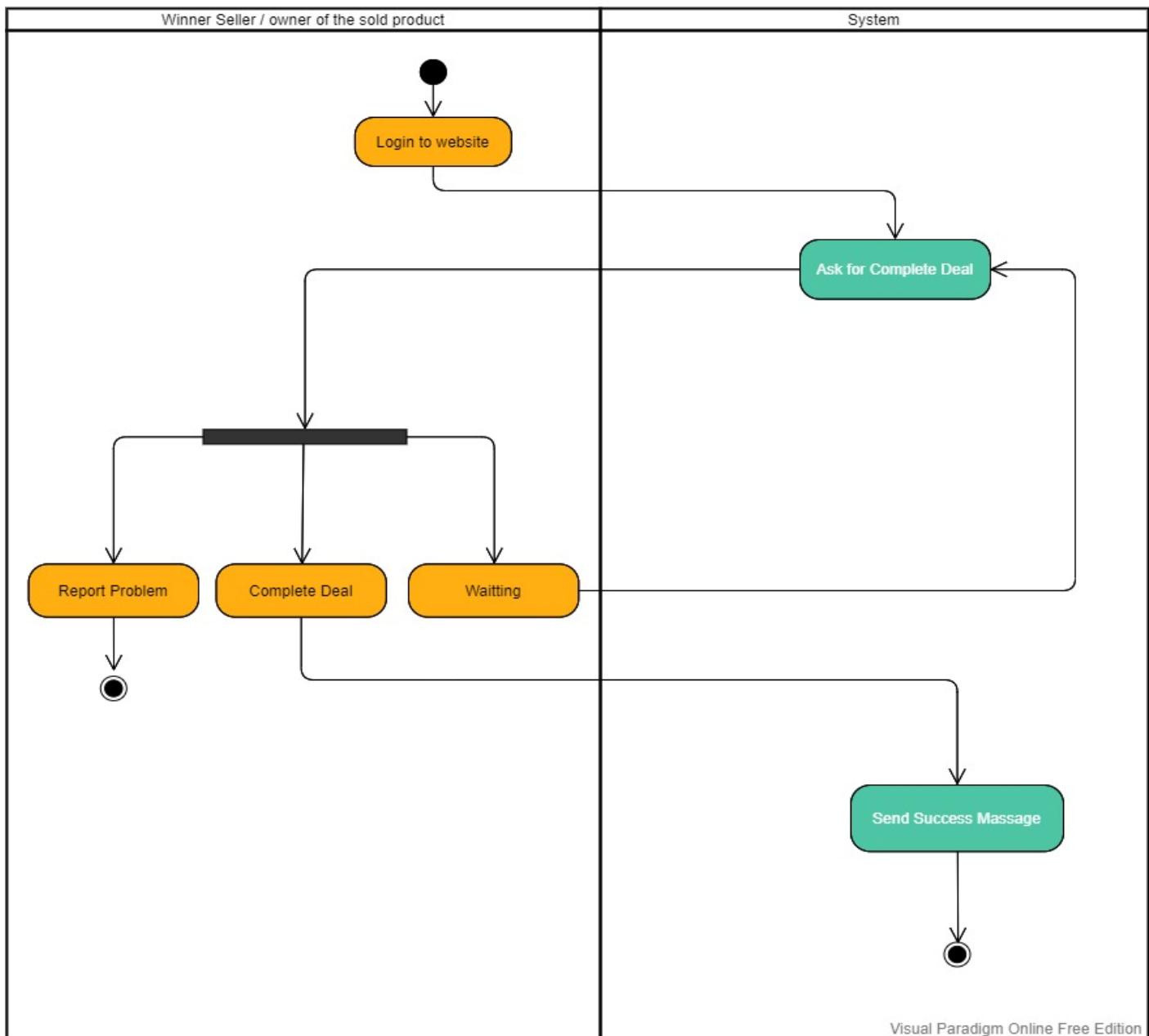


Figure 29 Deal Complete

Visual Paradigm Online Free Edition

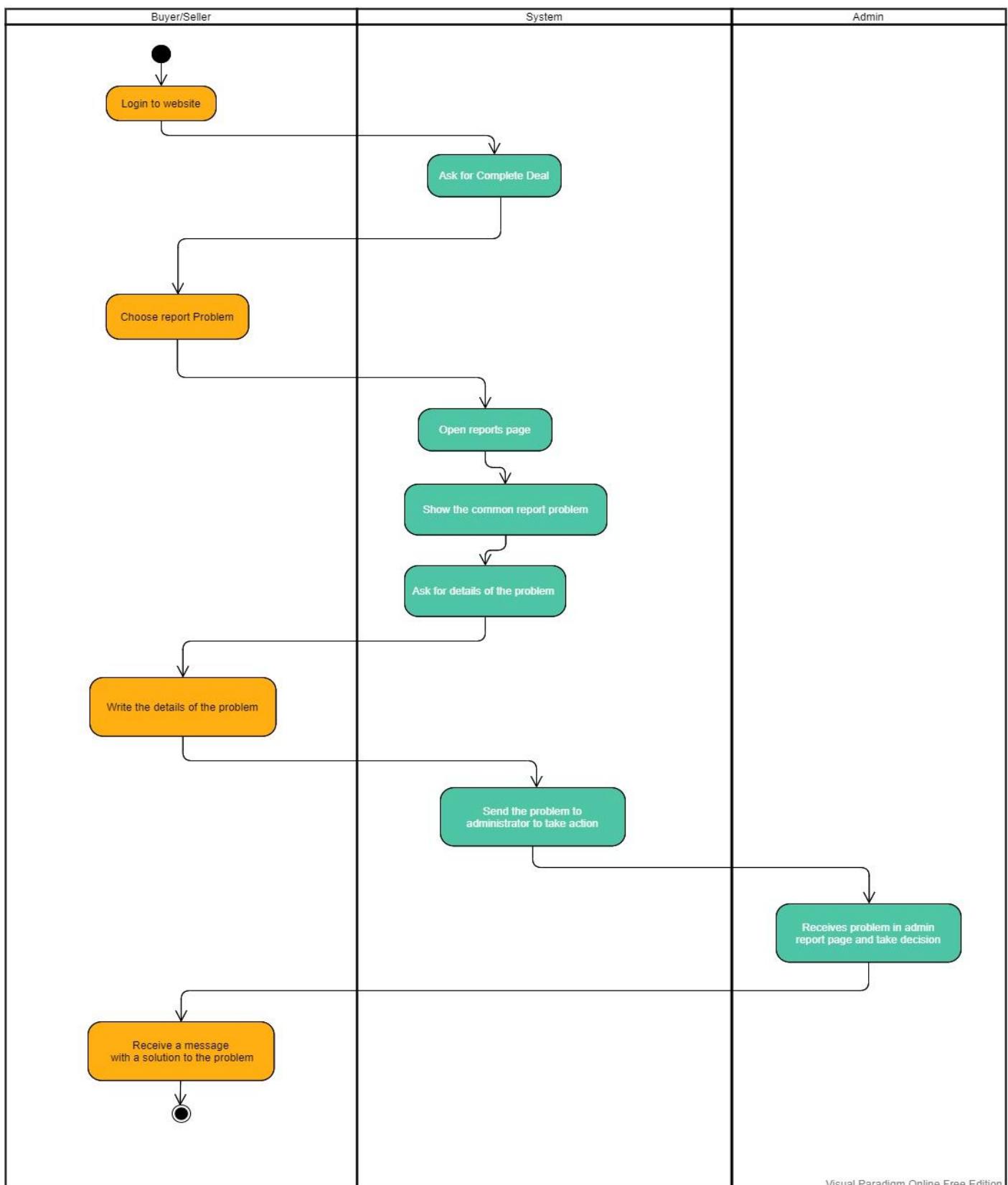
Report problem

Figure 30 Report Problem

Product review

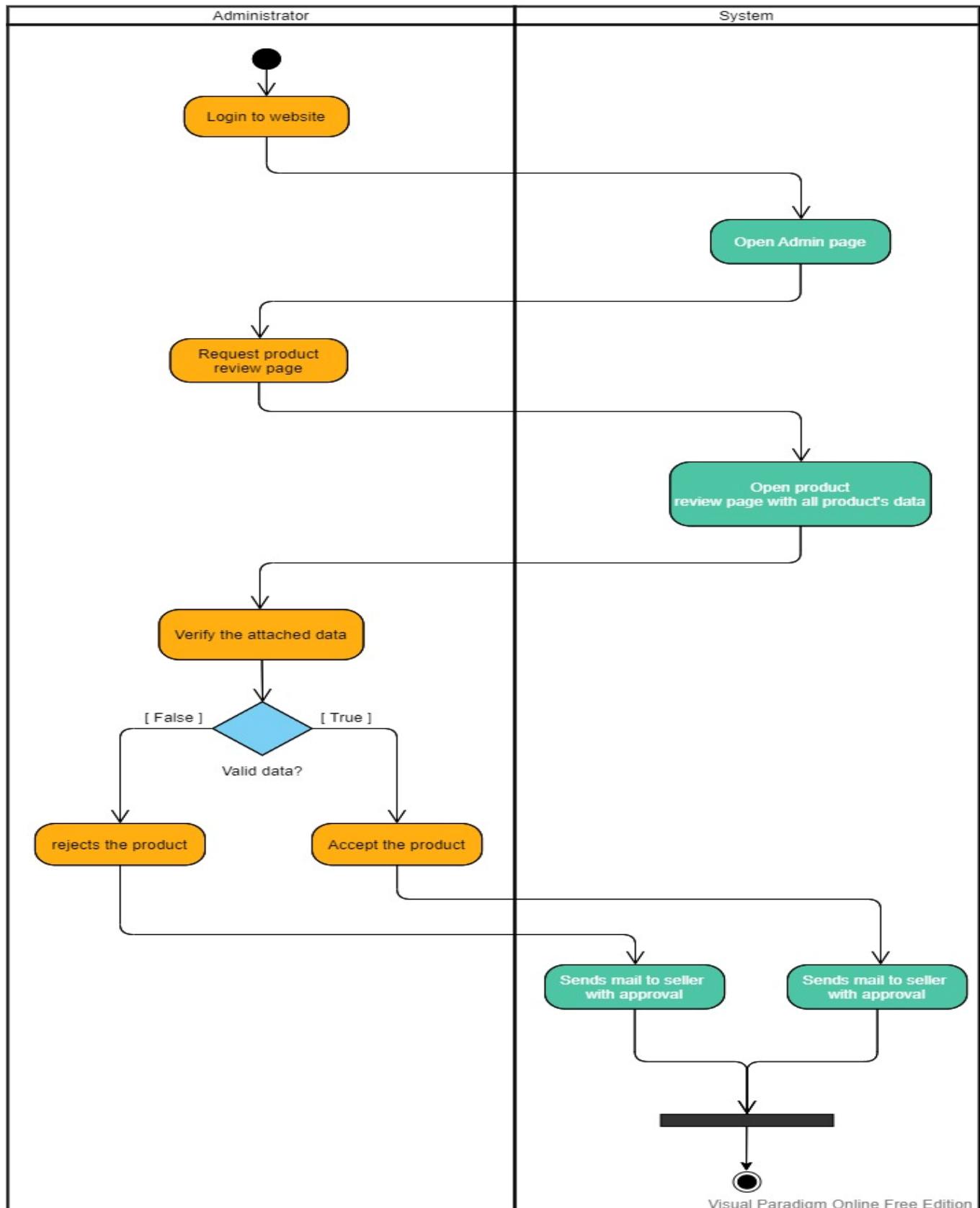


Figure 31 Product Review

Visual Paradigm Online Free Edition

Participation in Auction Requests

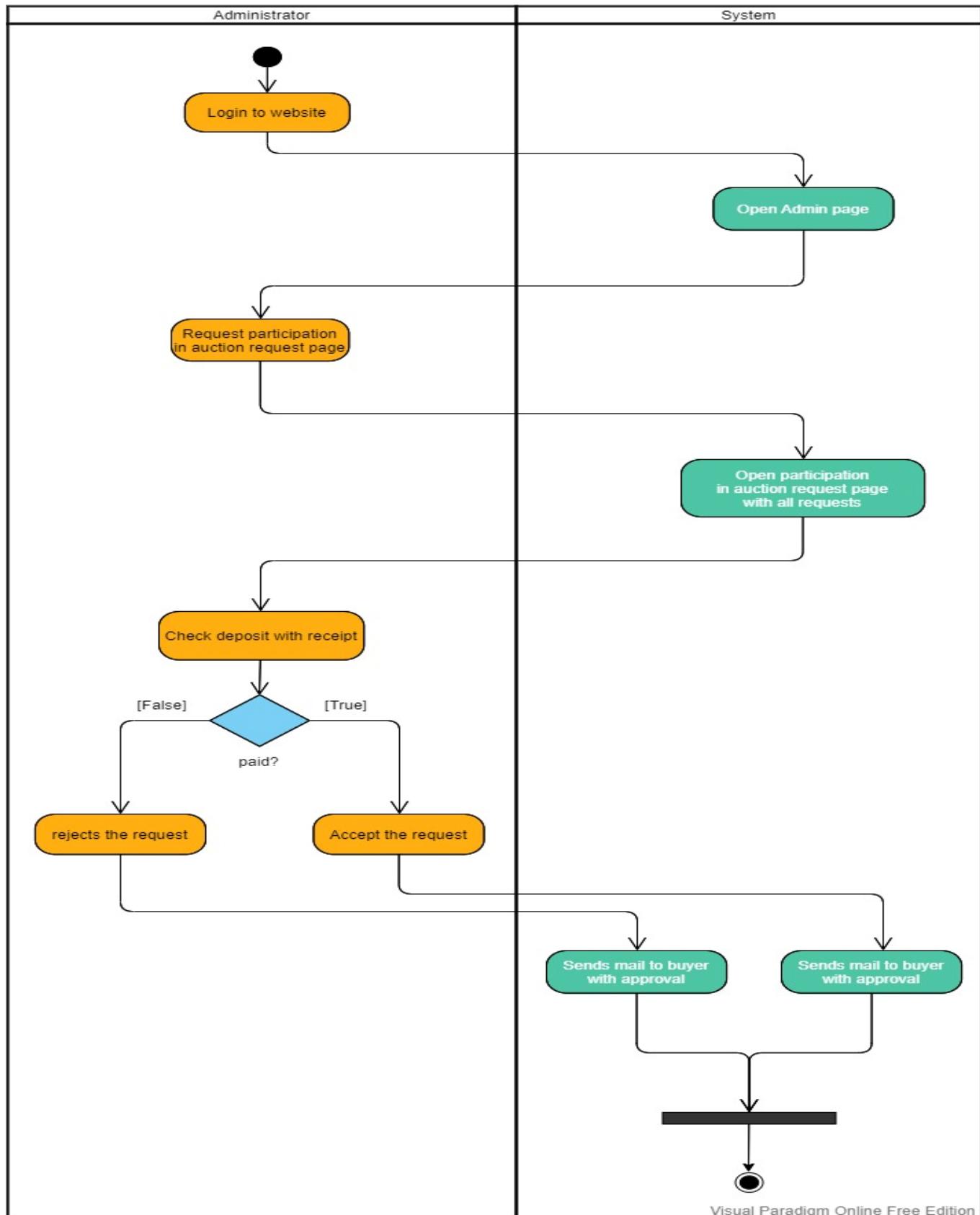


Figure 32 Partipation in Auction Request

2.4 Use-case Diagram

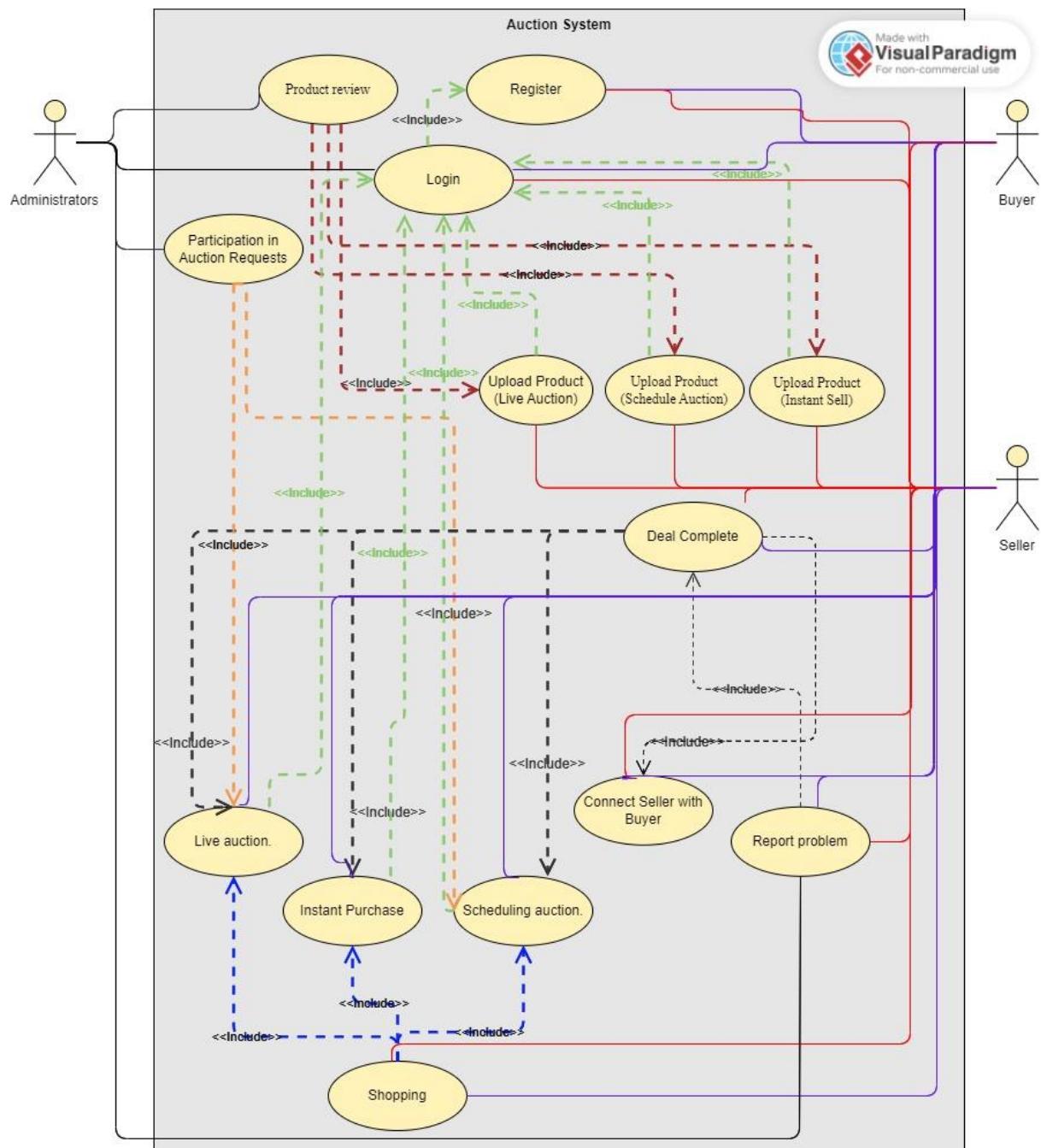


Figure 33 USE CASE DIAGRAM

2.5 Entity Relationship Diagram (ERD)

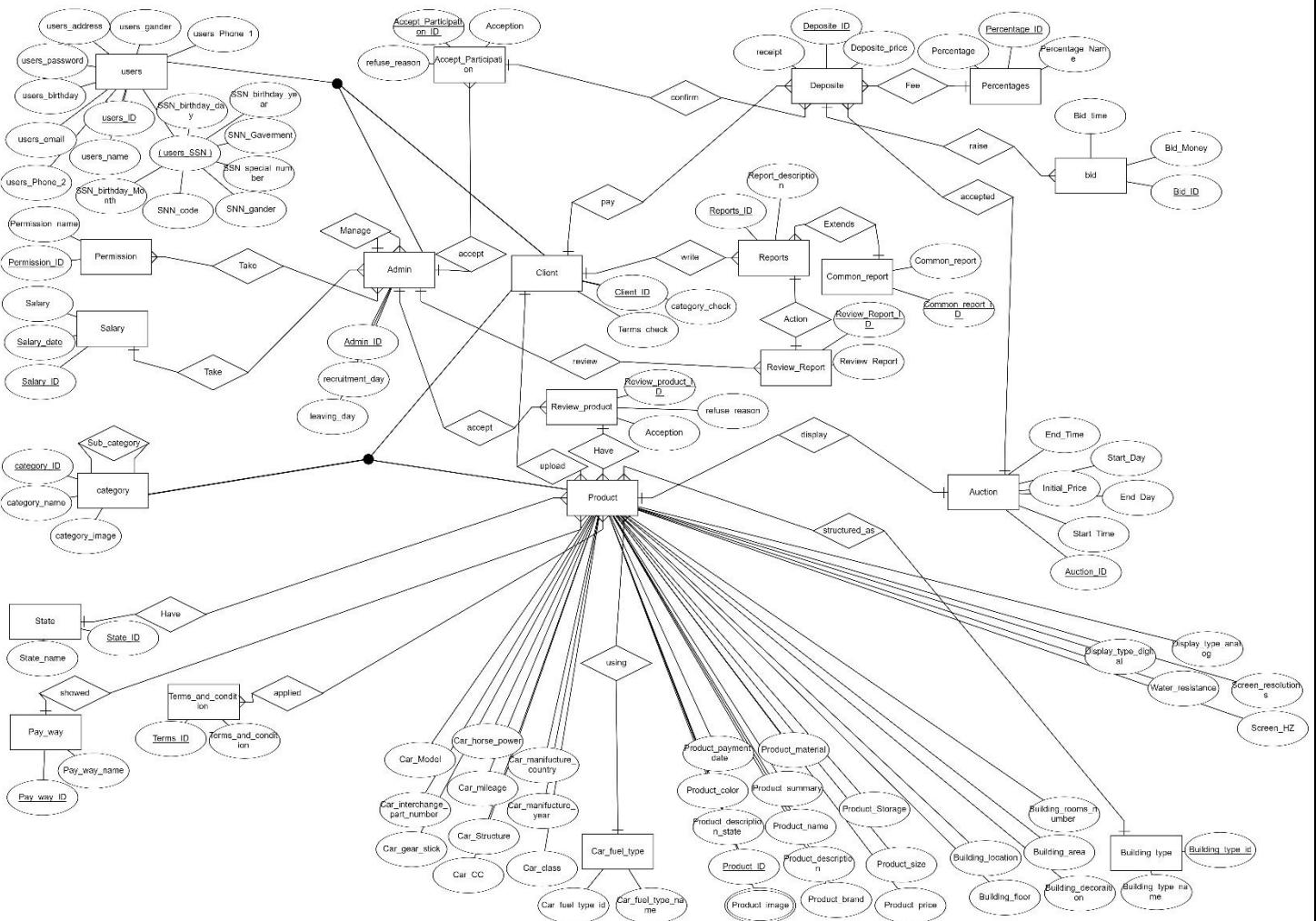


Figure 34 ERD

2.6 Schema

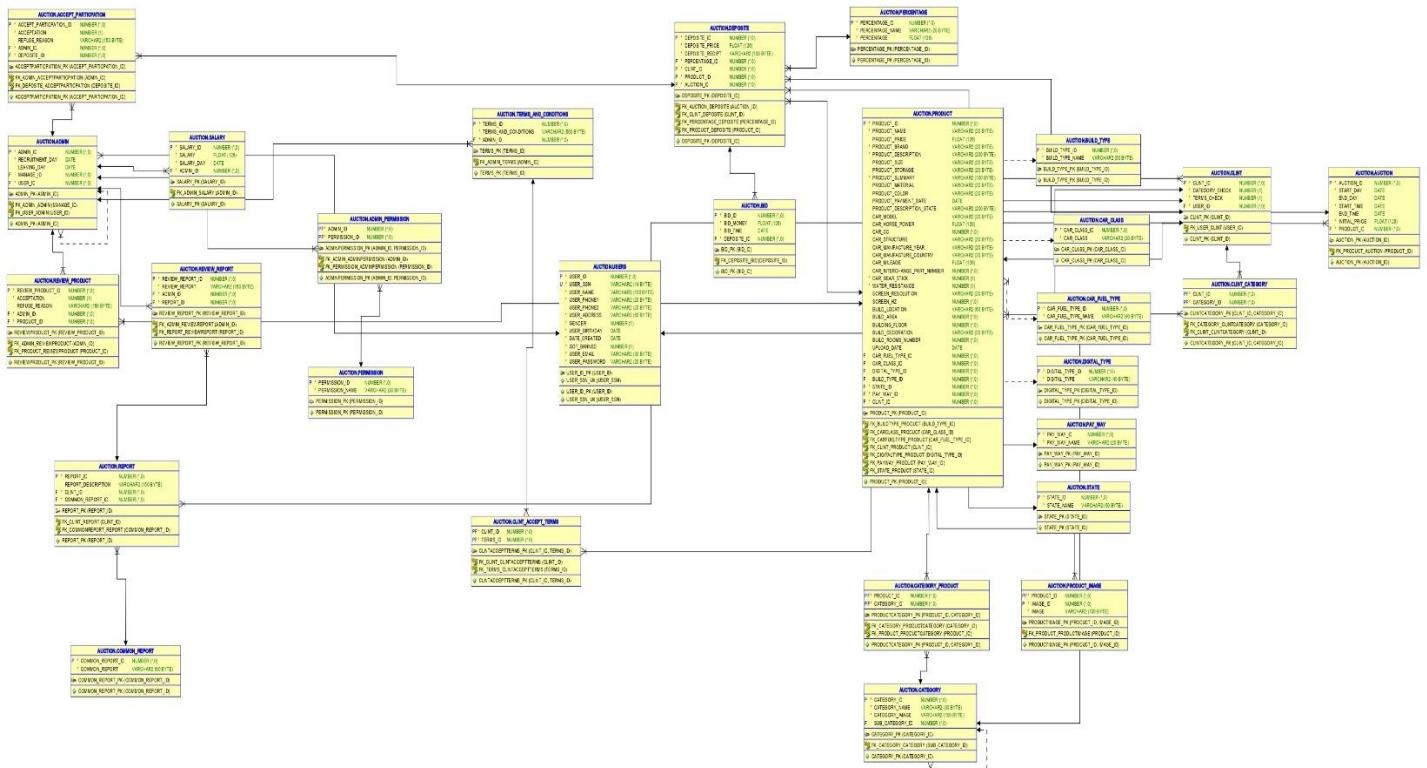


Figure 35 SCHEMA

2.7 Normalization

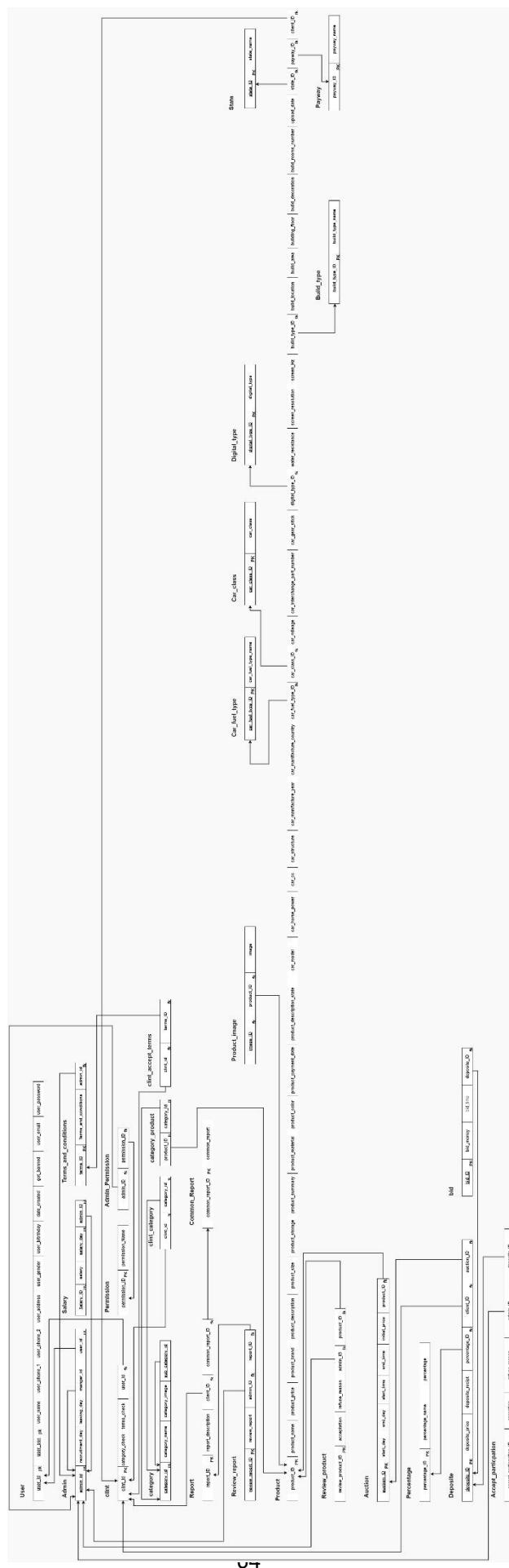


Figure 36 Normalization

2.8 Frontend: User

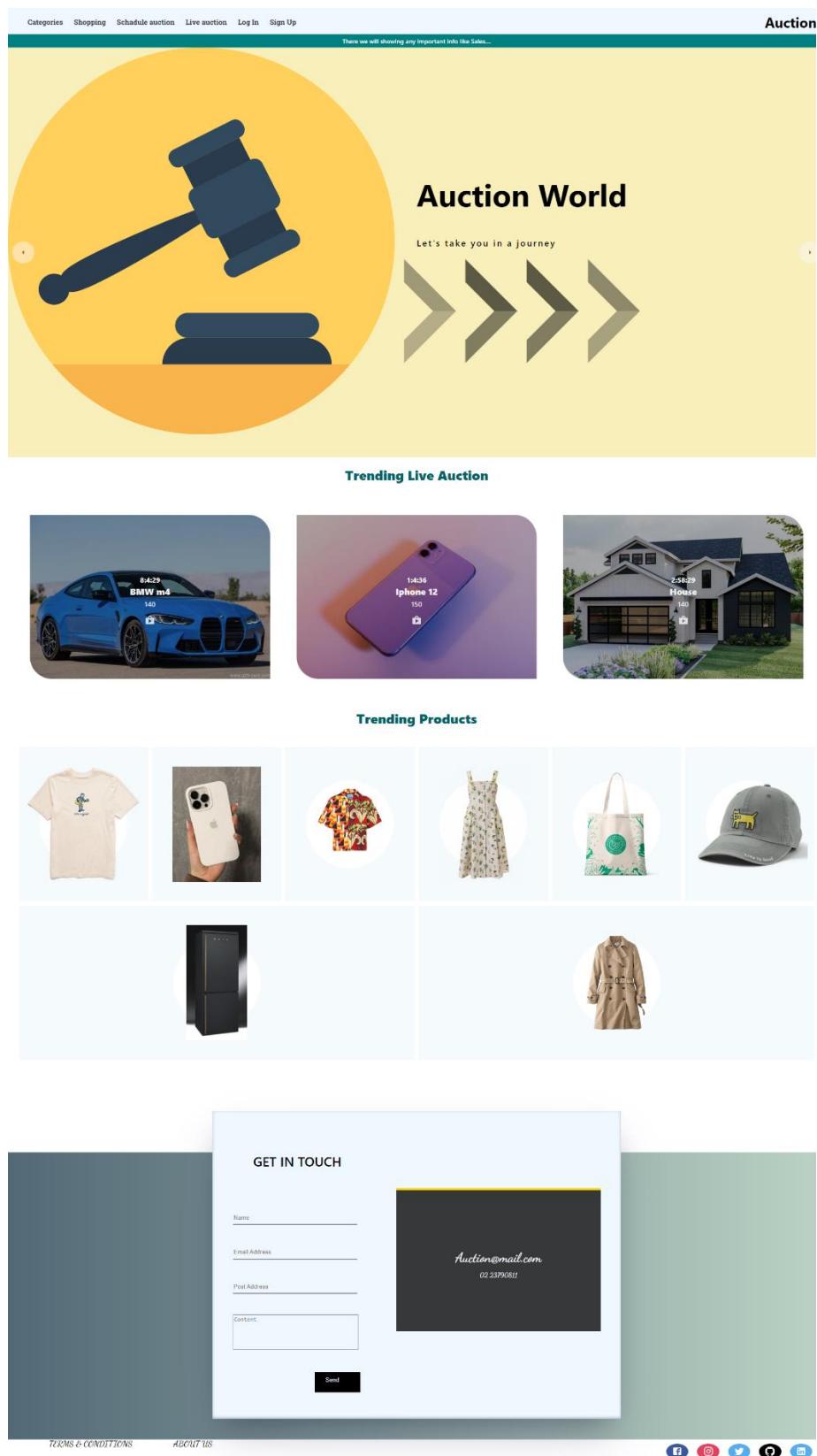


Figure 37 Home Page

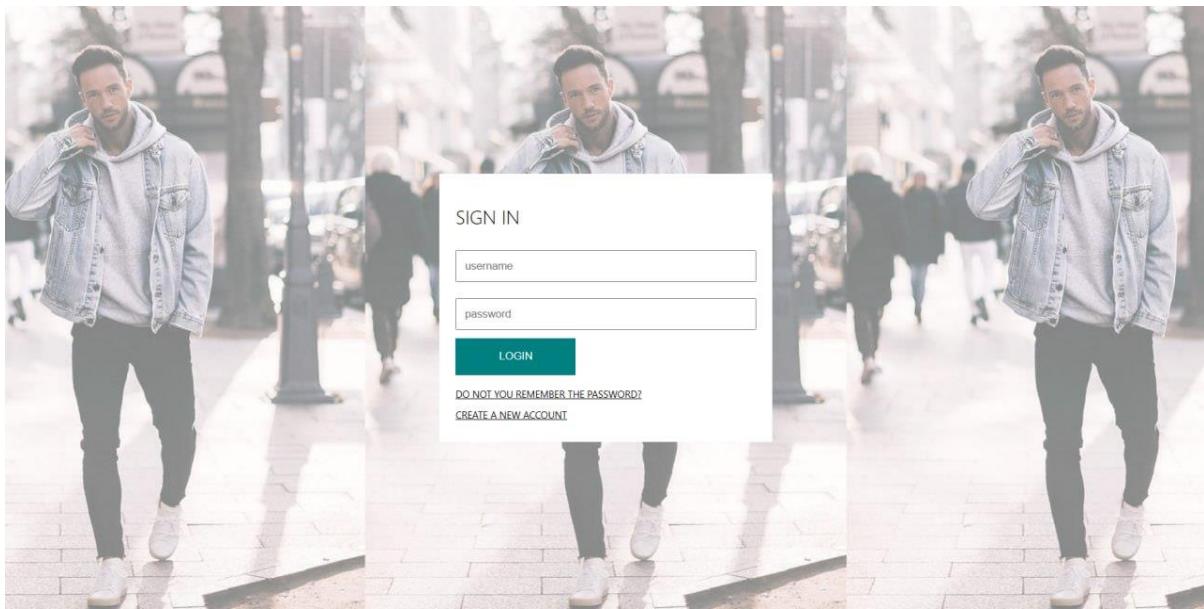


Figure 38 Login Page (old)

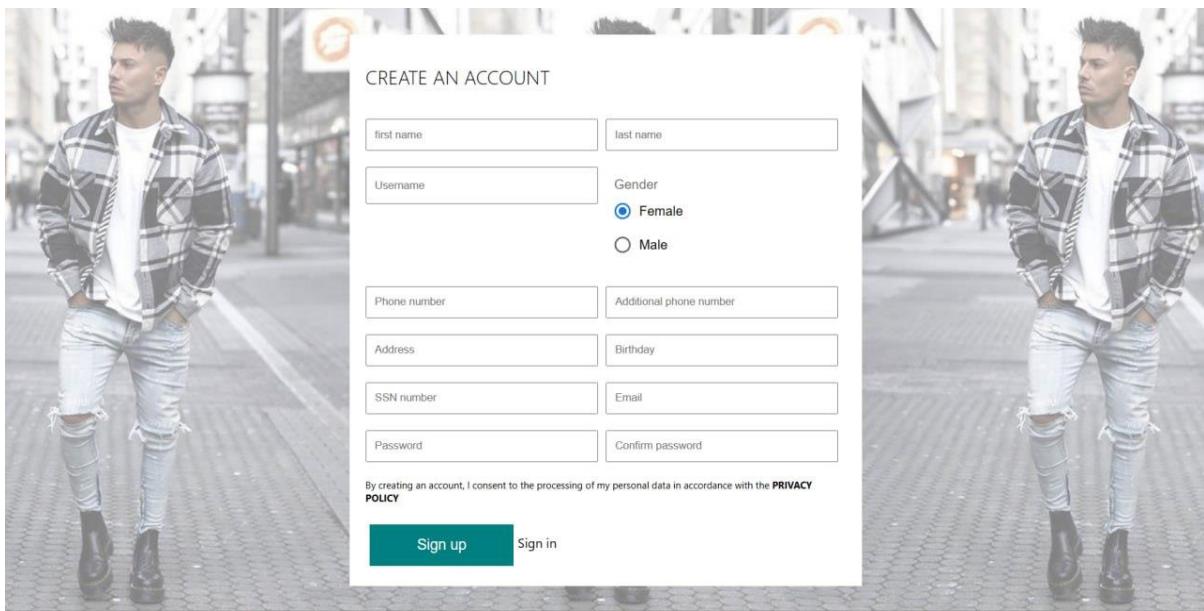
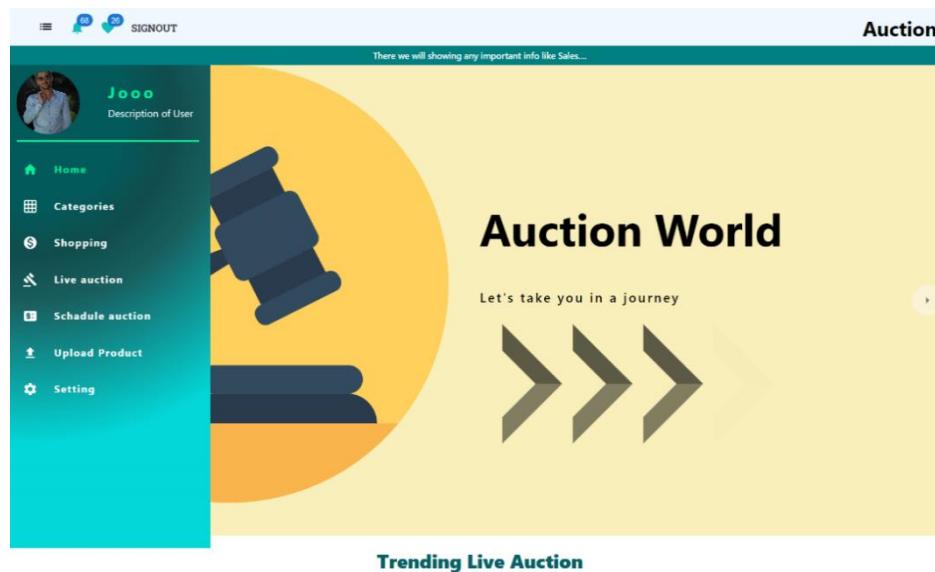
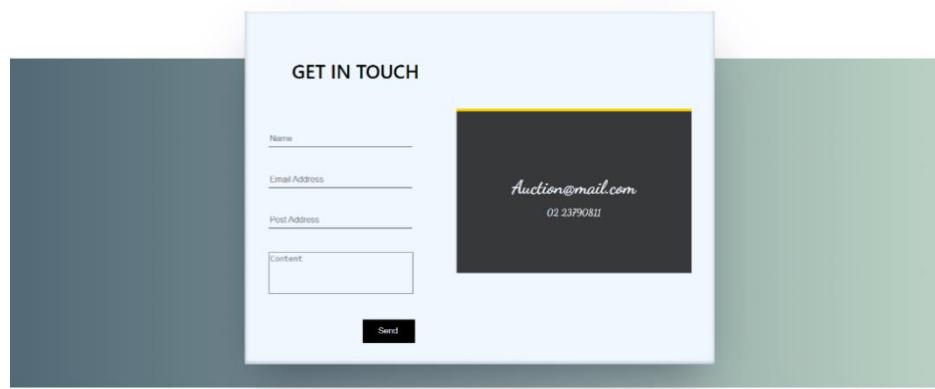
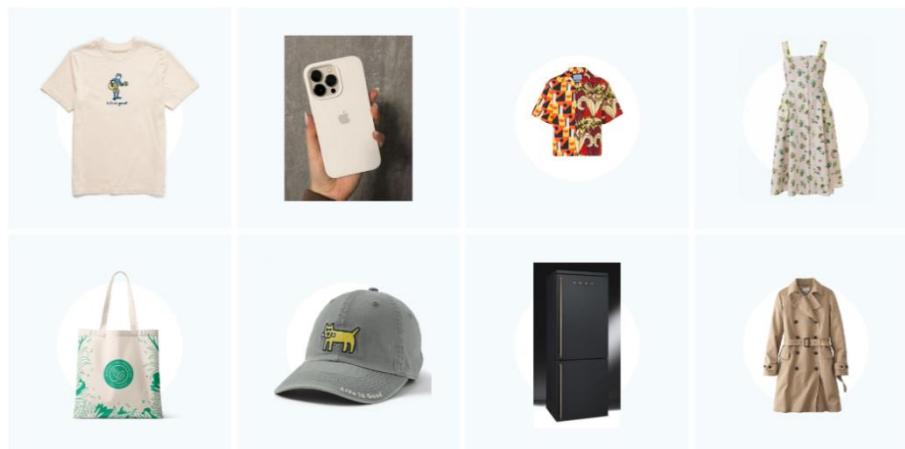


Figure 39 Signup Page (old)



Trending Products



TERMS & CONDITIONS

ABOUT US



Figure 40 Navigating with Sidebar

The screenshot shows the 'Edit User' page of the Auction System. At the top, there's a navigation bar with icons for notifications (50), messages (80), and a signout link. Below the header, a teal bar displays the text 'There we will showing any important info like Sales...'. The main area is titled 'Edit' and contains fields for 'User name' (example), 'Full name' (Snow), 'Email' (example@gmail.com), 'Phone' (+1 123 456 78), and 'Address' (Egypt|EG). To the right, there's a placeholder for a profile picture with a silhouette of a person's head and shoulders, and a blue 'Upload' button below it. On the far left, a sidebar shows 'Account Details' (example) and 'Contact Details' (+1 123 456 78, example@gmail.com, Egypt|EG). At the bottom, there are links for 'TERMS & CONDITIONS' and 'ABOUT US', along with social media sharing icons for Facebook, Instagram, Twitter, LinkedIn, and YouTube.

Figure 41 User Profile

Categories Shopping Schadule auction Live auction Log In Sign Up

Auction

There we will showing any important info like Sales....

			
Pride	Mirror	Gramophone	Gramophone
Kitchen utensils Dish, cap	Furniture Antike Mirror	Heritage Gramophone, CDs	Heritage Gramophone, CDs
400\$	800\$	1200\$	1300\$
Details	Details	Details	Details
			
Xbox Controller	Camera	Shoes	Watch
Technology Xbox, Controller	Technology Camera	Clothes Sport Shoes	Clothes Prand- watch
200\$	500\$	200\$	800\$
Details	Details	Details	Details
			
Home	Status		
Buildings Flat	Heritage ancien- statue		
2000\$	3000\$		
Details	Details		

Figure 42 Products

Categories Shopping Schadule auction Live auction Log In Sign Up

Auction

There we will showing any important info like Sales....

			
Microphone	Cologne	Watch	Galaxy S22
Technology Headset,Microphone	accessories Clothing accessories	accessories Clothing accessories	Technology Smartphone
800\$	400\$	200\$	1300\$
Details	Details	Details	Details
			
Diamond Heart Necklace	Pendant with Diamonds	Ferrari	Black Coupe Car
accessories Clothing accessories	accessories Clothing accessories	Cars Sport car	Cars passenger car
200\$	500\$	900\$	800\$
Details	Details	Details	Details
			
Black Mercedes Benz	Gold Ring		
Cars passenger car	accessories Clothing accessories		
500\$	400\$		
Details	Details		

Figure 43 Products 2

The image displays two screenshots of an auction system's category page. Both screenshots have a header bar with links: Categories, Shopping, Schedule auction, Live auction, Log In, and Sign Up. A teal banner at the top of each page reads: "There we will showing any important info like Sales...".

Screenshot 1 (Top):

- Vehicles:** A dark grey card featuring a black SUV. Below it is a "Show More" button.
- Furniture:** A red card featuring a red sofa. Below it is a "Show More" button.
- Houses:** A blue card featuring a modern two-story house. Below it is a "Show More" button.
- A vertical red sidebar on the right side of the first screenshot contains a small icon.

Screenshot 2 (Bottom):

- Houses:** A blue card featuring a modern two-story house. Below it is a "Show More" button.
- Laptops:** A red card featuring a silver laptop. Below it is a "Show More" button.
- Telephones:** A light green card featuring a vintage-style telephone. Below it is a "Show More" button.
- Clothes:** An orange card featuring a white, blue, and brown hoodie. Below it is a "Show More" button.
- A vertical blue sidebar on the right side of the second screenshot contains a small icon.

Figure 44 Categories

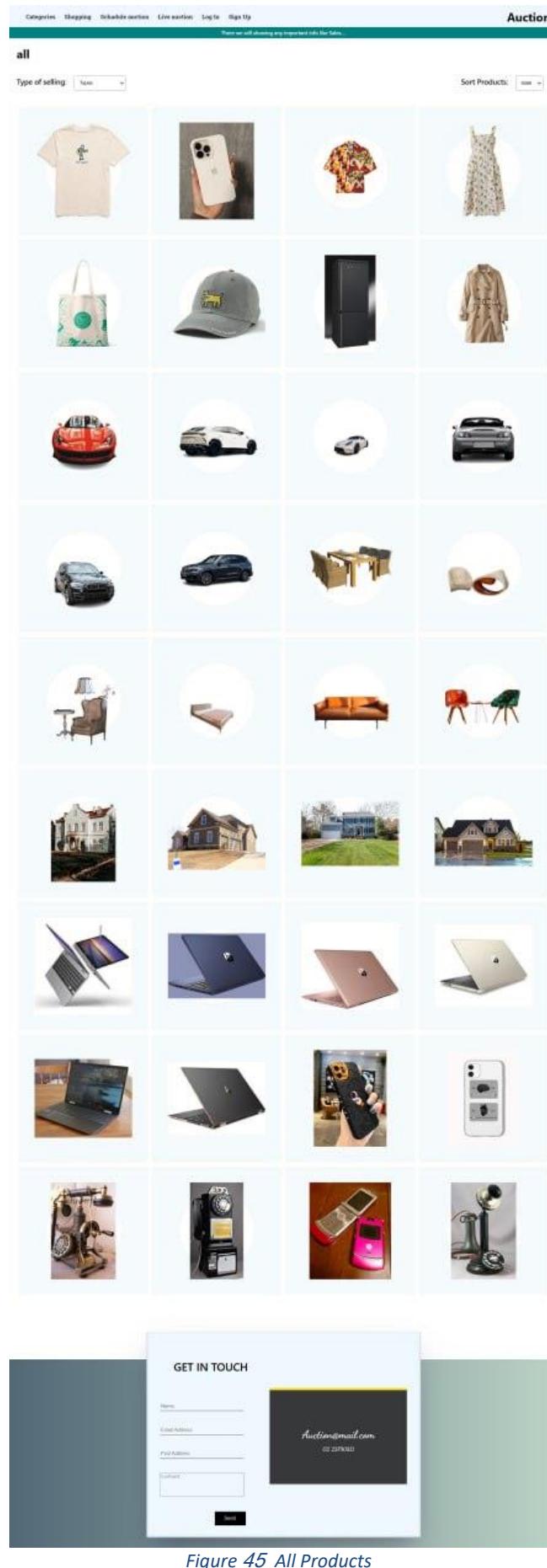


Figure 45 All Products

The screenshot shows the 'Auction' section of the system. At the top, there are user icons for notifications (51) and messages (87), and a 'SIGNOUT' button. Below this is a teal header bar with the text 'There we will showing any important info like Sales....'. The main area has a large dashed box for dragging images, with the text 'Drag Images' above it and 'Select Files' below. To the right, there are three tabs: 'INSTANCE SALE', 'LIVE AUCTION', and 'SCHEDUAL AUCTION' (underlined). The 'SCHEDUAL AUCTION' tab is active. Below the tabs are several input fields for product details:

mm/dd/yyyy	Product Name	Product Material
Product Brand	Description	Summary
Price	Size	Color
Car Model	Horse Power	Gear Stick
Manufacture year	Manufacture Country	Class
Interchange	Structure	Fuel Type

Below the table, there are two radio buttons for 'State': 'New' and 'Used'.

Figure 46 Upload Product Page

[Categories](#) [Shopping](#) [Schedule auction](#) [Live auction](#) [Log In](#) [Sign Up](#)

Auction

There we will showing any important info like Sales...



LIVE AUCTION

Item Condition : New

Auction ends: 01-MAR-23
Time Zone UTC(+0)

Reserve price has been met!

+

Add to your favorite list!

Current Bid : 180000EGP

6 days 7 hours 1 minutes 46 seconds






BMW M4

As the two-door version of the M3 sedan, the M4 has high levels of comfort, luxury, and daily usability—and a reasonably roomy rear seat should you need them.

Auction History

Date	Bid	User
01-FEB-23	150EGP	Mickel
01-MAR-23	180EGP	Emad
05-MAR-23	40EGP	Ahmed

End date: 01-MAR-23 Start date: 01-JAN-23

Related Products



live auction
SHOES

[Details](#)



live auction
HOME

[Details](#)



live auction
GRAMOPHONE

[Details](#)

GET IN TOUCH

Name

Email Address

Post Address

Content

Auction@mail.com
02 2379080



Figure 47 Product Description Page

Chapter 3: System Architecture and Deployment

3.1 Component Diagram:

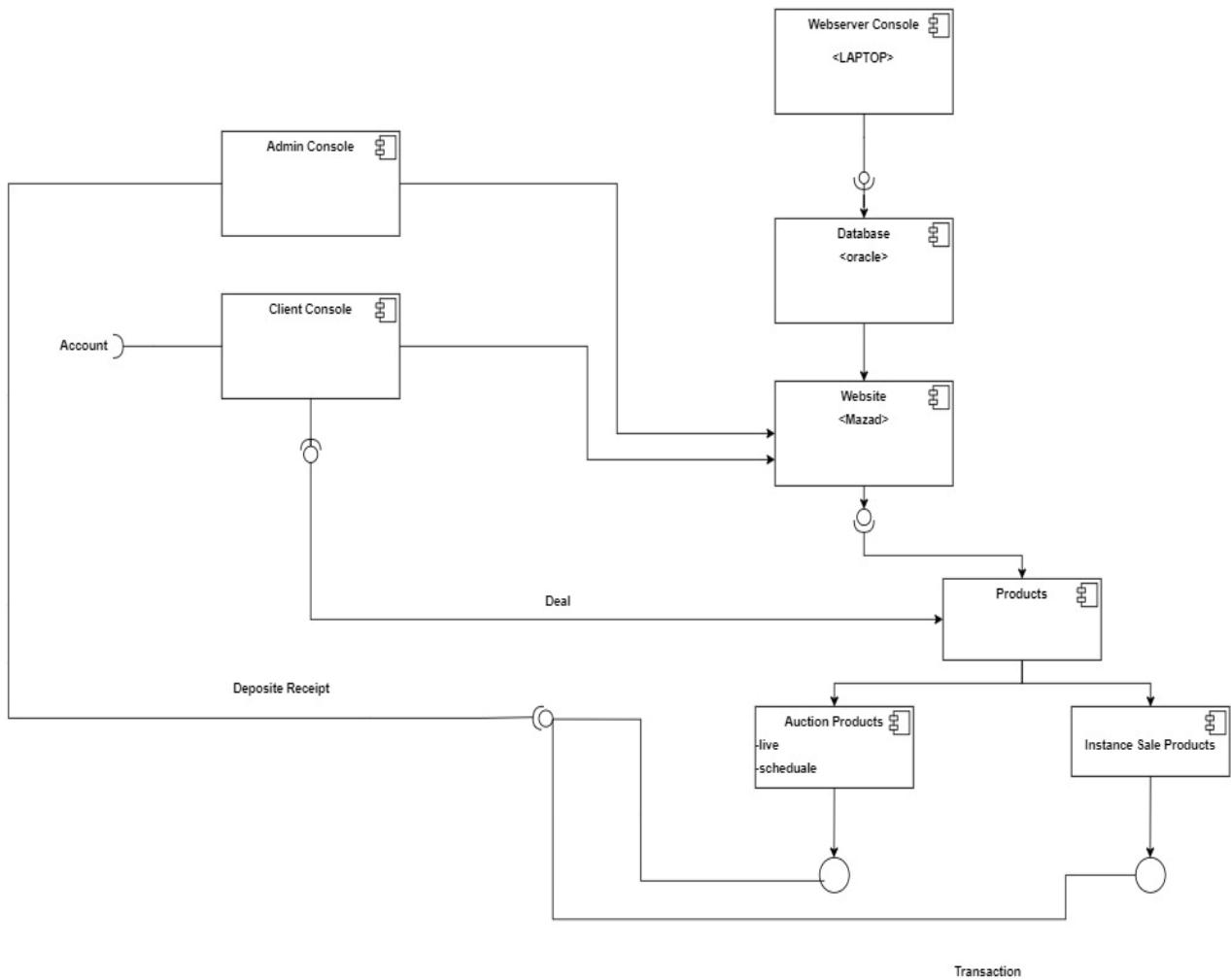


Figure 48 Component Diagram

3.2 Deployment Diagram:

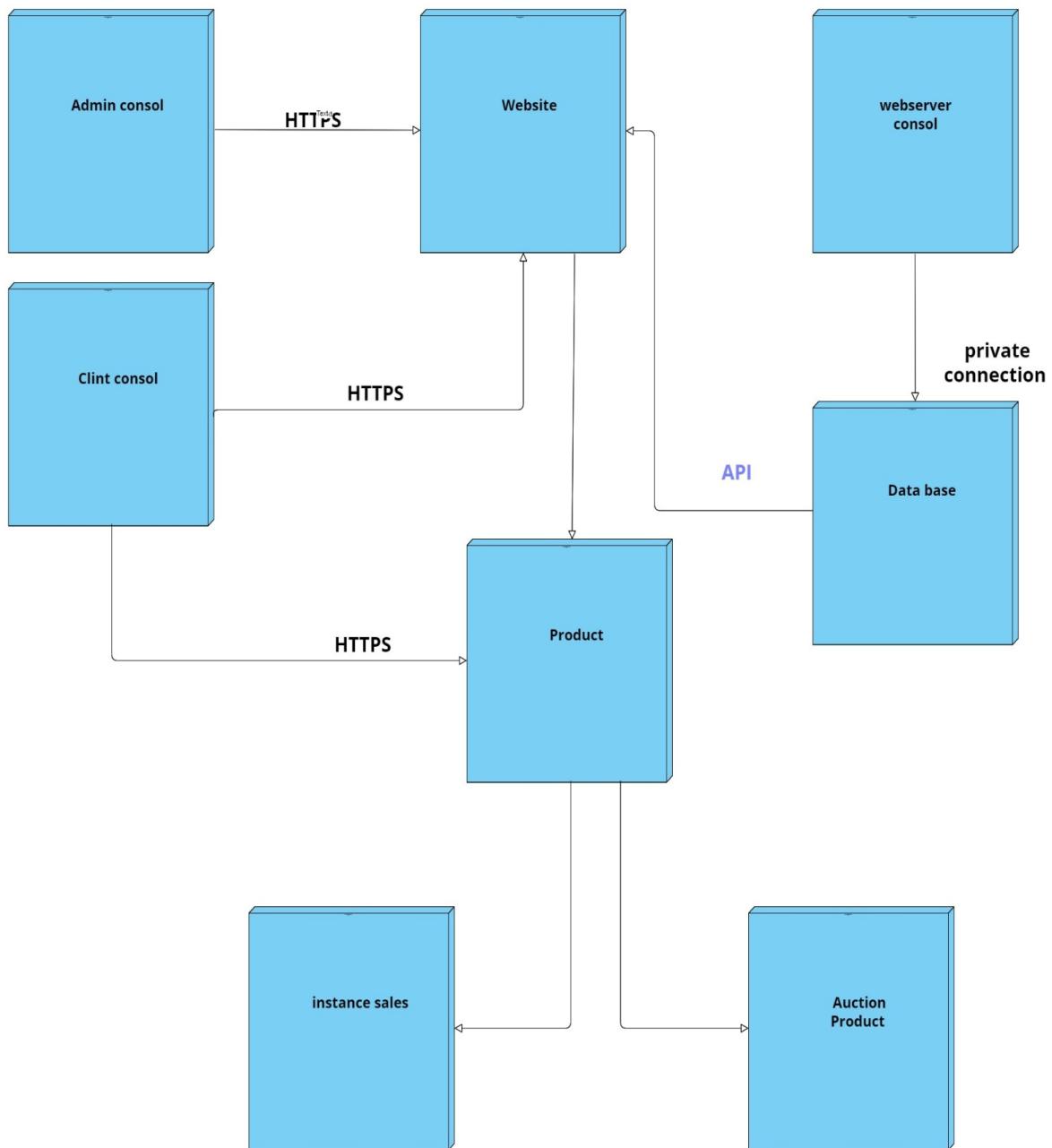


Figure 49 Deployment Diagram

3.3 Class diagram:

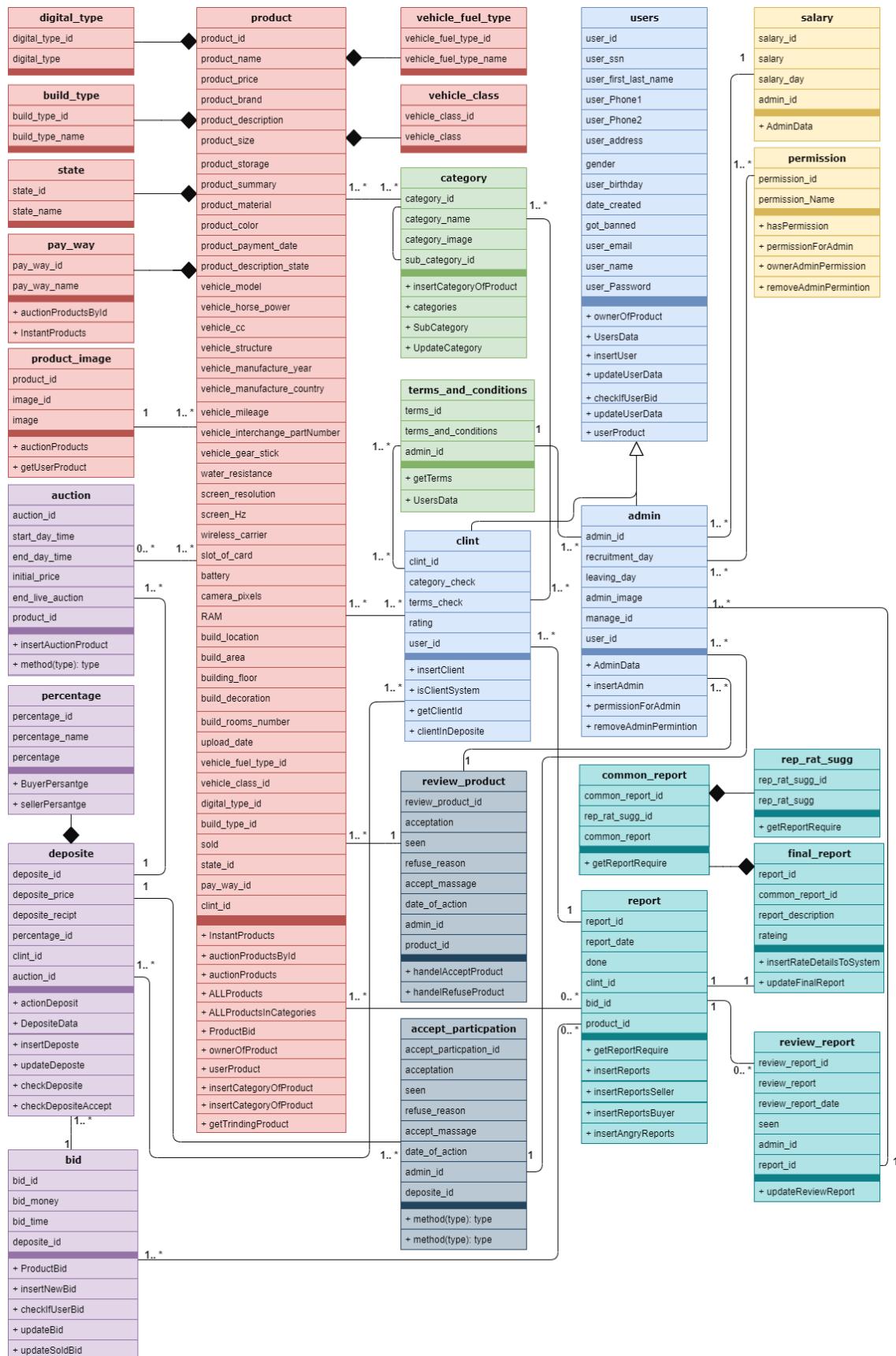


Figure 50 Class Diagram

Chapter 4: Implementation Screens

- 4.1 Home

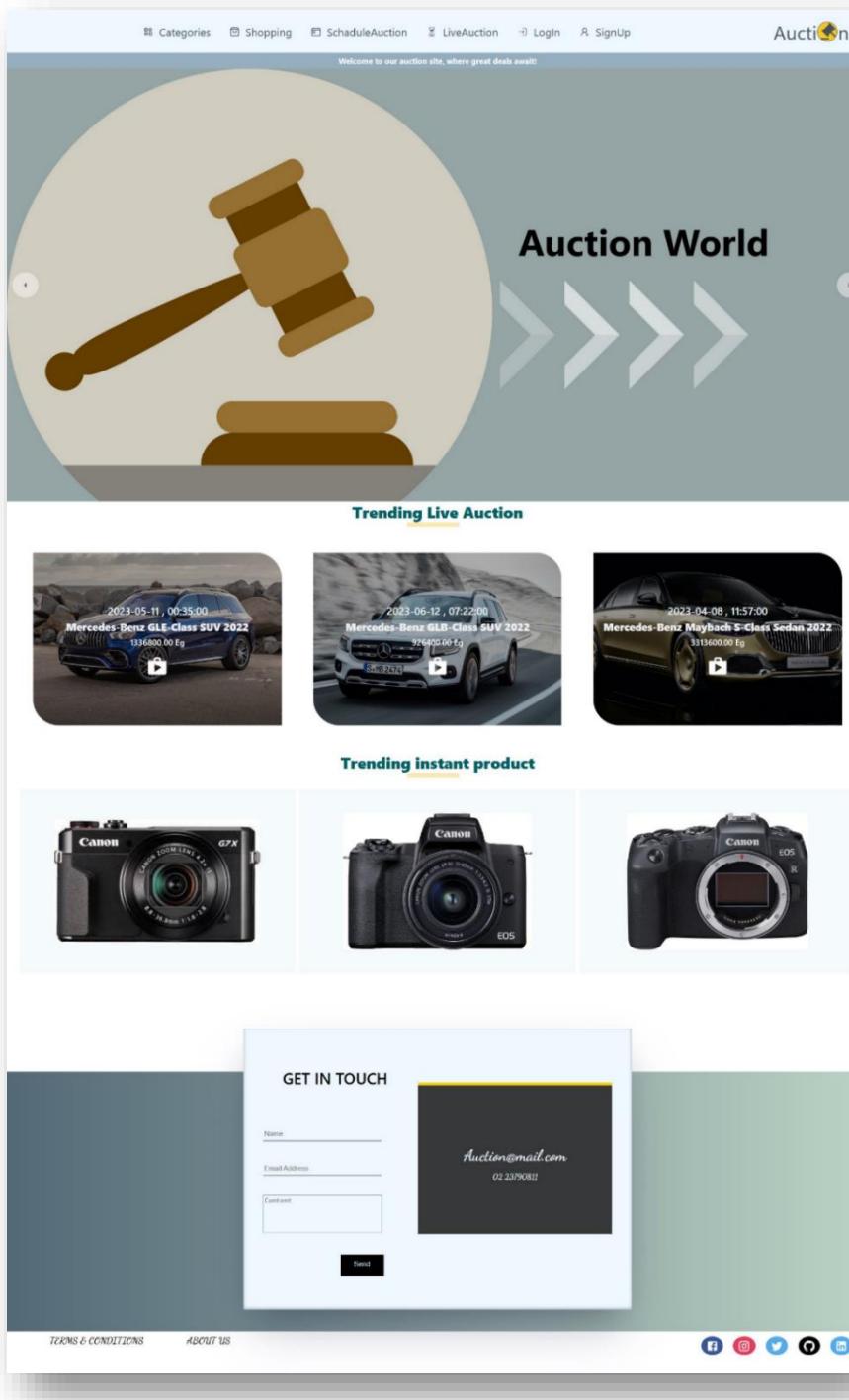


Figure 51 Home Page DESKTOP view



Figure Home Page Mobile view

- 4.2 Categories

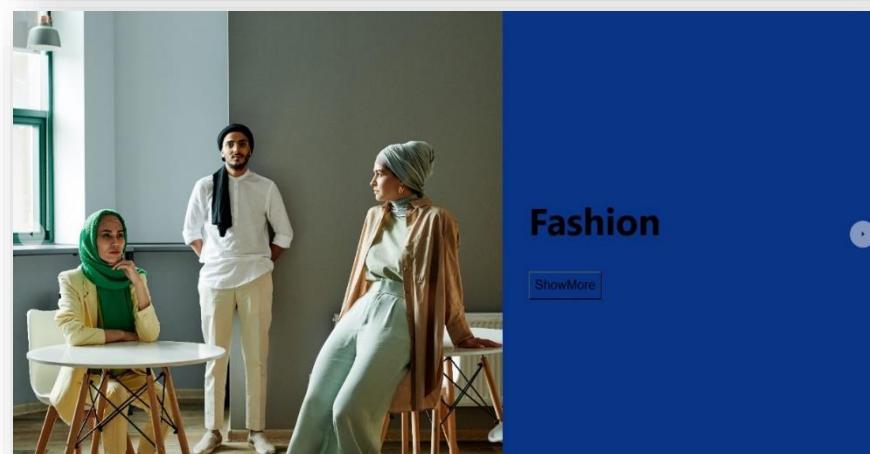
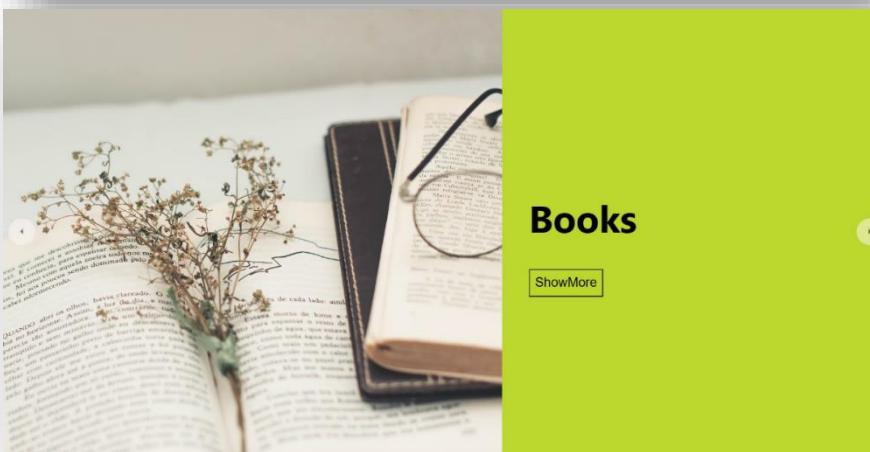
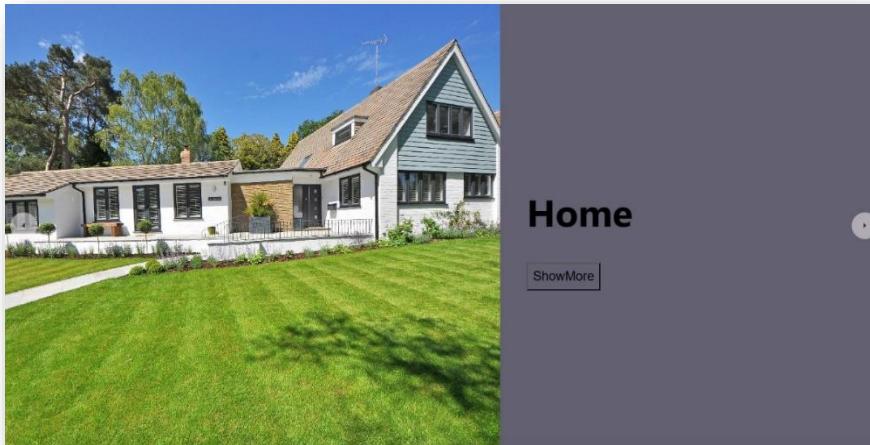


Figure 53 Categories DESKTOP view

Figure 52 Categories Mobile view

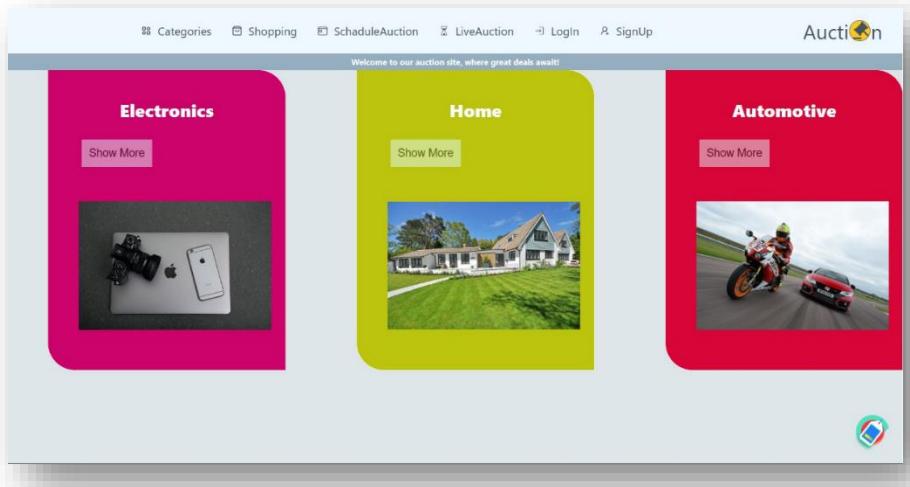
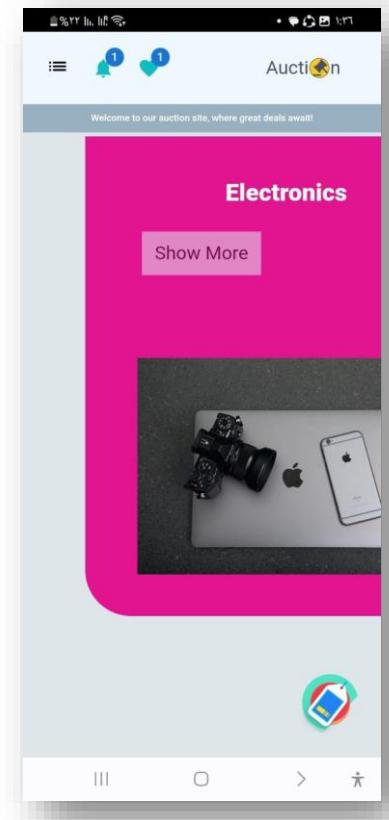
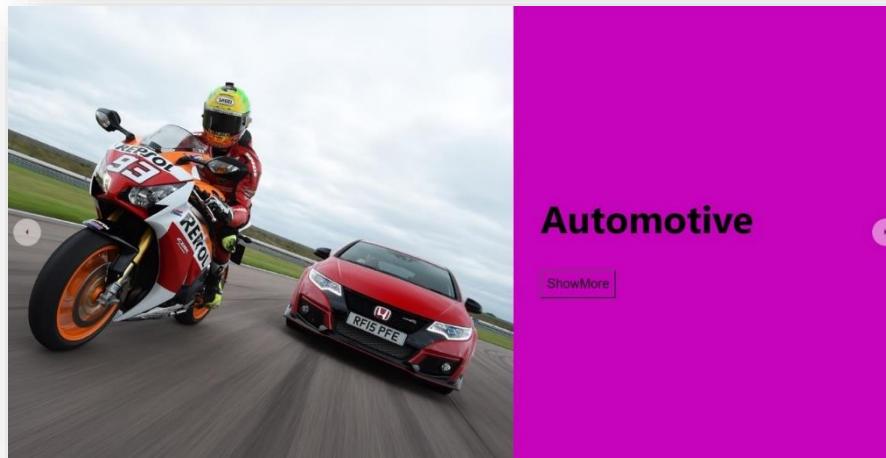
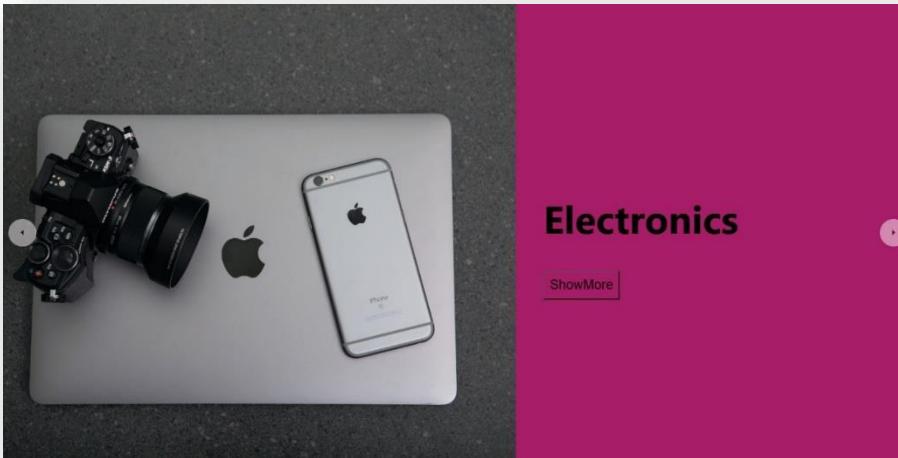
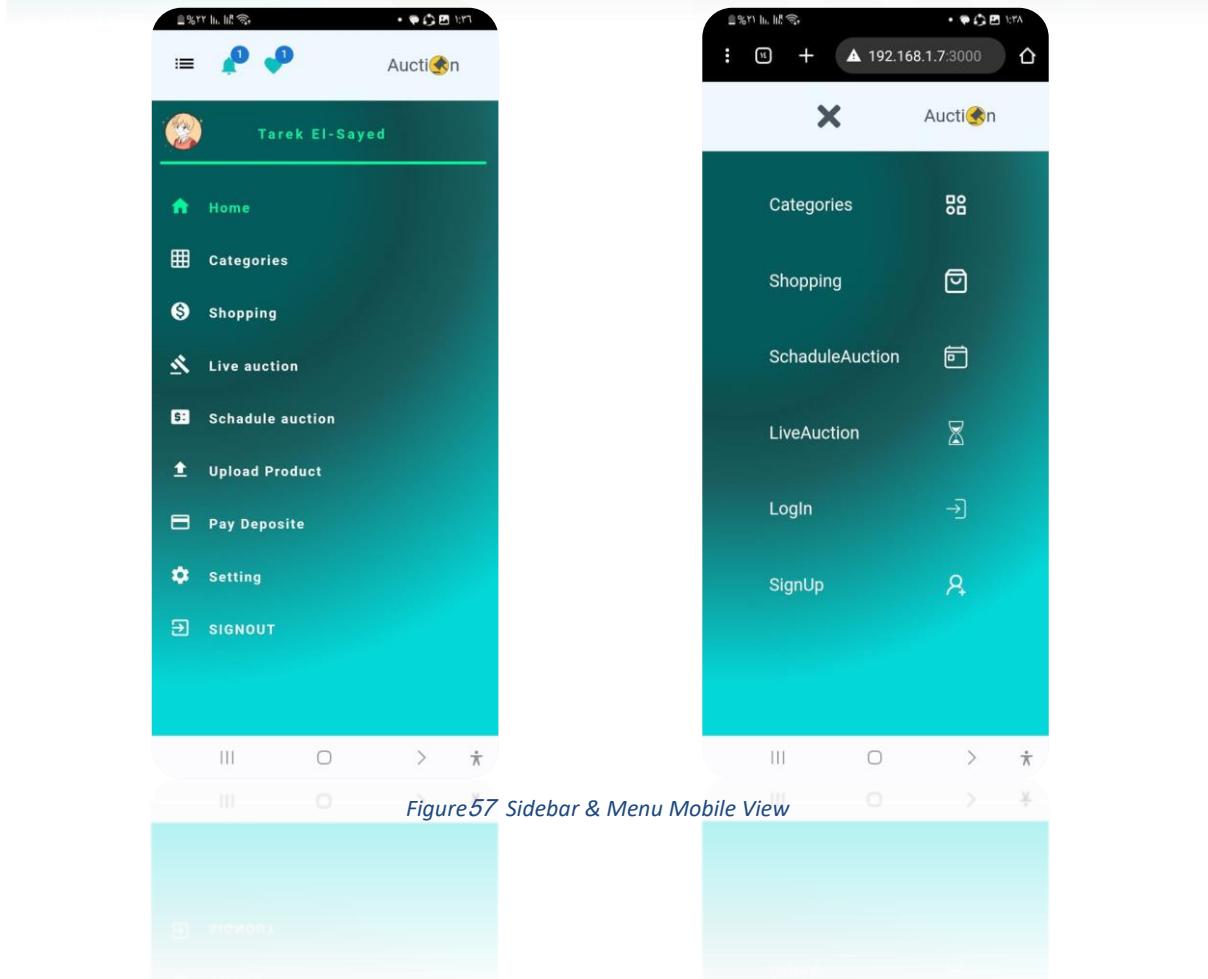
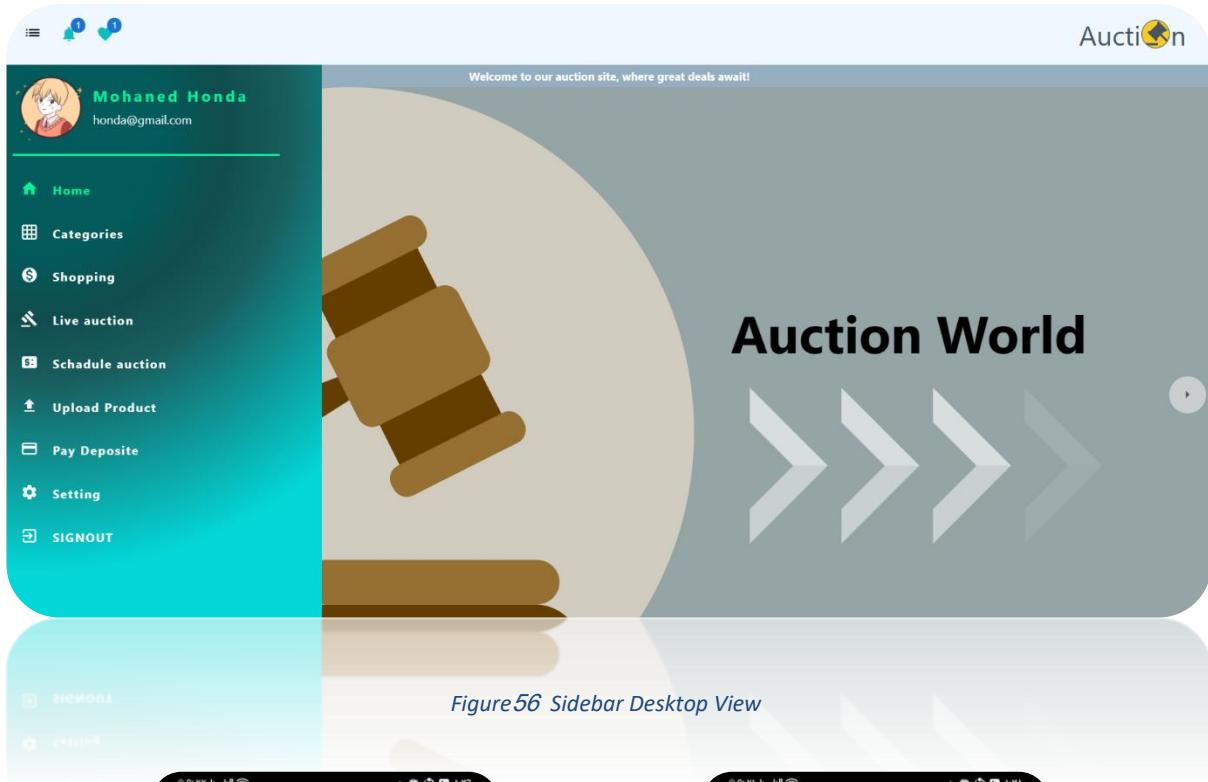


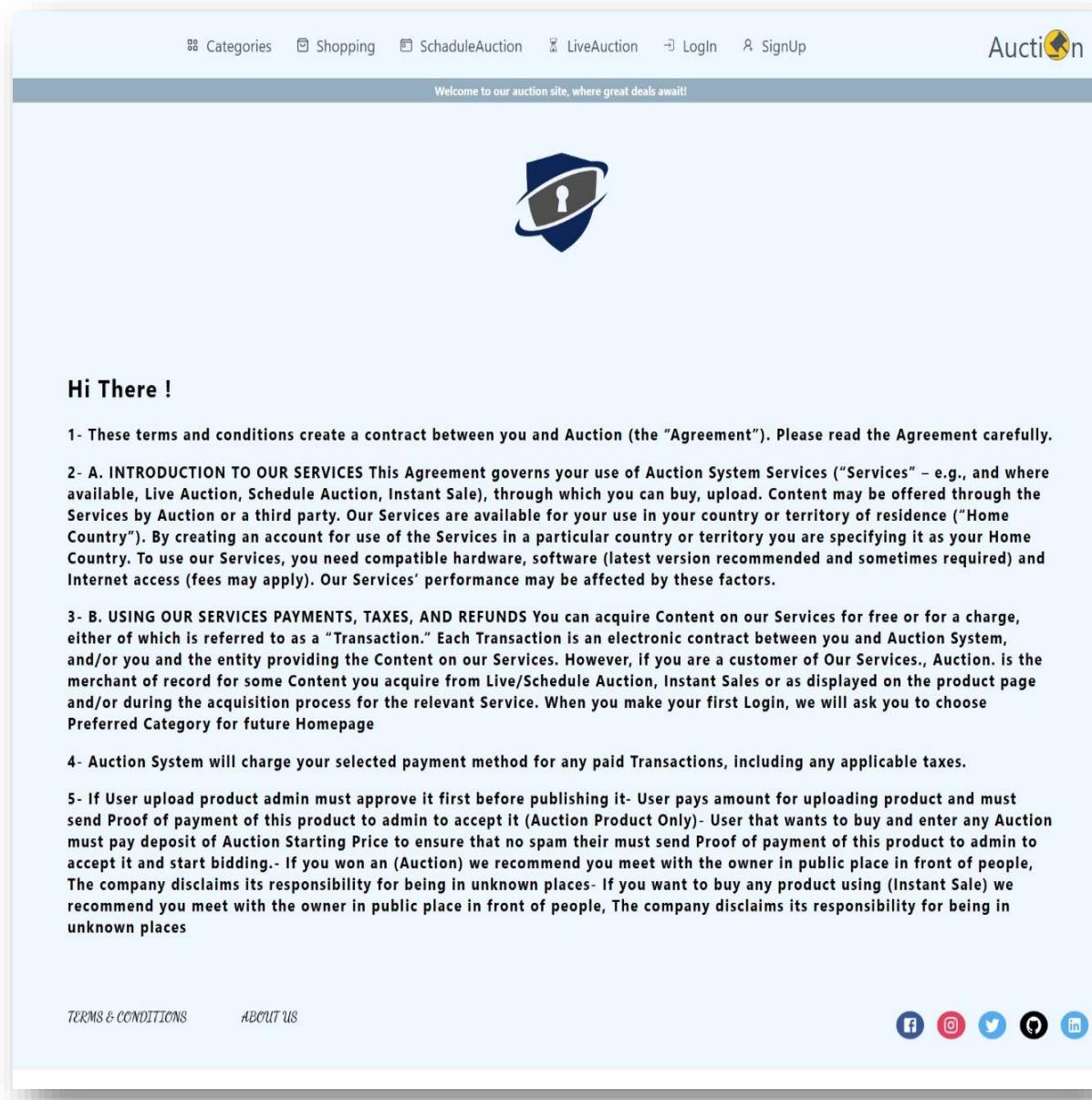
Figure 54 All Categories Desktop

Figure 55 All Categories Mobile

- 4.3 Client Sidebar



- 4.4 Terms and Conditions



The screenshot shows the Auction System website's Terms & Conditions page. At the top, there is a navigation bar with links for Categories, Shopping, ScheduleAuction, LiveAuction, Login, and SignUp. The main header reads "Welcome to our auction site, where great deals await!". Below the header is a large logo featuring a shield with a keyhole and a gear-like swoosh around it. The main content area starts with a greeting "Hi There !". Following this are five numbered points describing the terms and conditions:

- 1- These terms and conditions create a contract between you and Auction (the "Agreement"). Please read the Agreement carefully.
- 2- A. INTRODUCTION TO OUR SERVICES This Agreement governs your use of Auction System Services ("Services" – e.g., and where available, Live Auction, Schedule Auction, Instant Sale), through which you can buy, upload. Content may be offered through the Services by Auction or a third party. Our Services are available for your use in your country or territory of residence ("Home Country"). By creating an account for use of the Services in a particular country or territory you are specifying it as your Home Country. To use our Services, you need compatible hardware, software (latest version recommended and sometimes required) and Internet access (fees may apply). Our Services' performance may be affected by these factors.
- 3- B. USING OUR SERVICES PAYMENTS, TAXES, AND REFUNDS You can acquire Content on our Services for free or for a charge, either of which is referred to as a "Transaction." Each Transaction is an electronic contract between you and Auction System, and/or you and the entity providing the Content on our Services. However, if you are a customer of Our Services., Auction. is the merchant of record for some Content you acquire from Live/Schedule Auction, Instant Sales or as displayed on the product page and/or during the acquisition process for the relevant Service. When you make your first Login, we will ask you to choose Preferred Category for future Homepage
- 4- Auction System will charge your selected payment method for any paid Transactions, including any applicable taxes.
- 5- If User upload product admin must approve it first before publishing it- User pays amount for uploading product and must send Proof of payment of this product to admin to accept it (Auction Product Only)- User that wants to buy and enter any Auction must pay deposit of Auction Starting Price to ensure that no spam their must send Proof of payment of this product to admin to accept it and start bidding.- If you won an (Auction) we recommend you meet with the owner in public place in front of people, The company disclaims its responsibility for being in unknown places- If you want to buy any product using (Instant Sale) we recommend you meet with the owner in public place in front of people, The company disclaims its responsibility for being in unknown places

At the bottom of the page, there are links for "TERMS & CONDITIONS" and "ABOUT US", along with social media icons for Facebook, Instagram, Twitter, and LinkedIn.

Figure 58 Terms & Conditions

- 4.5 Products

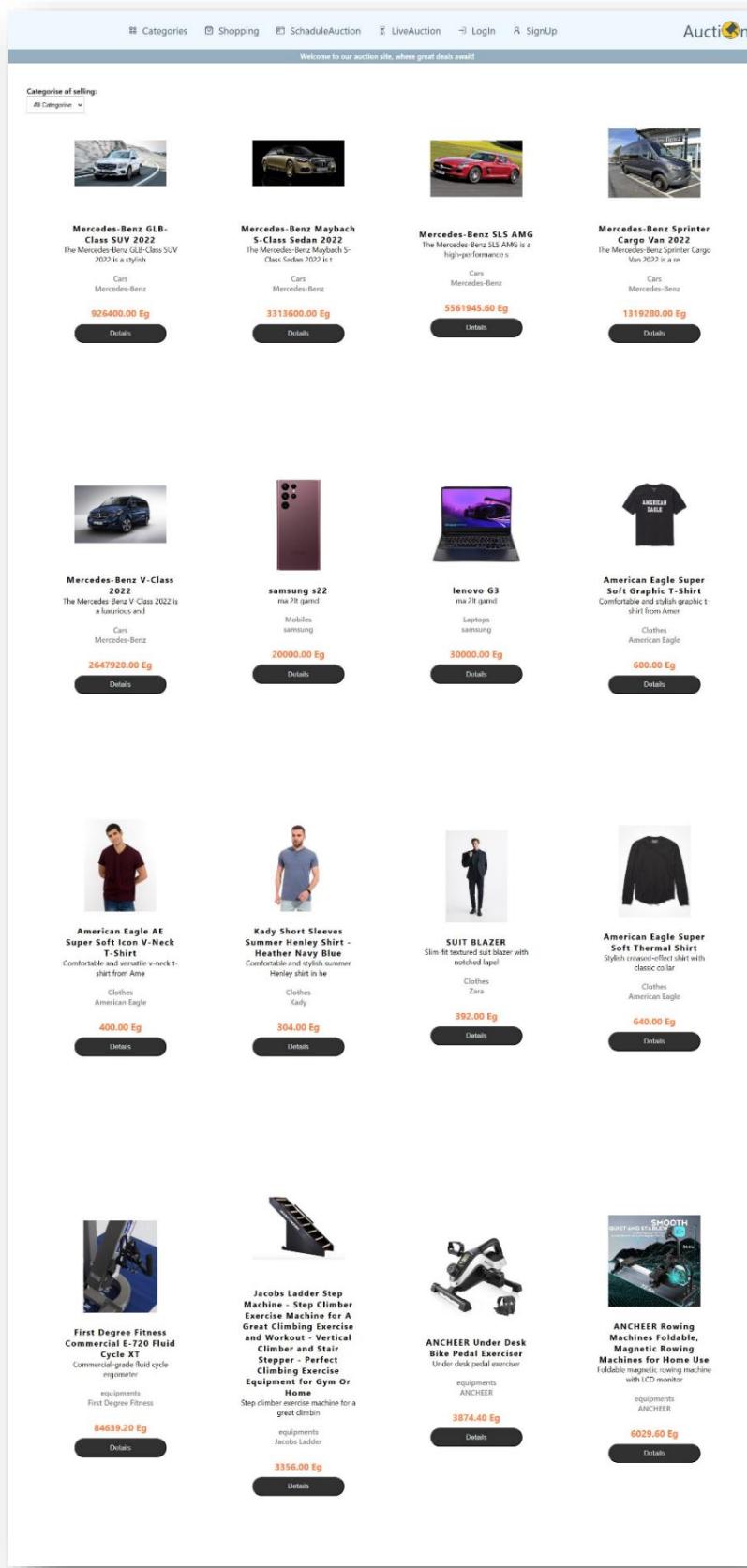


Figure 60 Products Desktop View

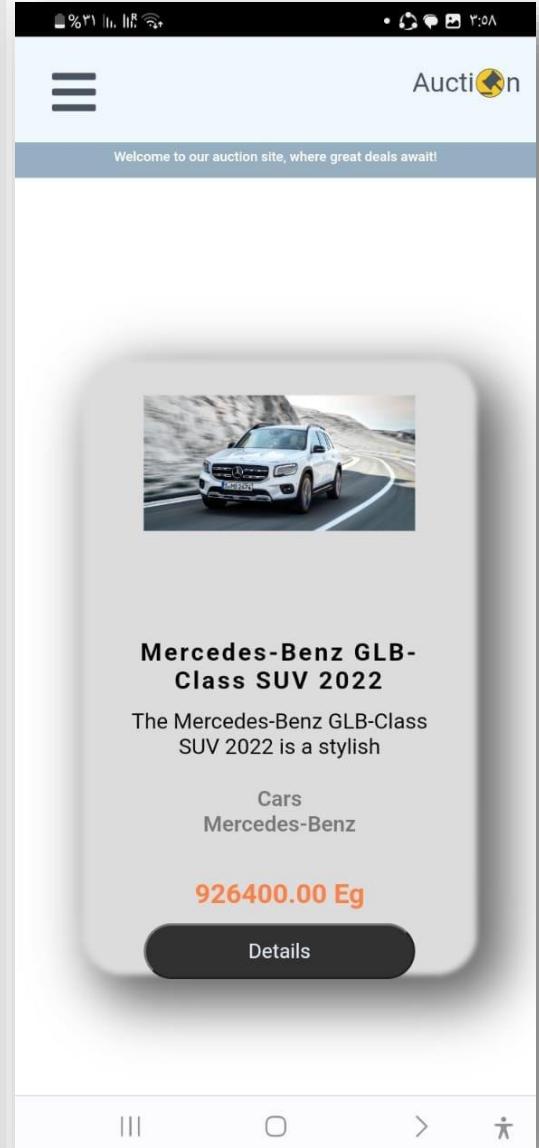


Figure 59 Products Mobile View

Welcome to our auction site, where great deals await!

Categorise of selling:

All Categorise

			
Mercedes-Benz G-Class SUV 2022 The Mercedes-Benz G-Class SUV 2022 is a rugged an Cars Mercedes-Benz	Mercedes-AMG GT Coupe 2022 The Mercedes-AMG GT Coupe 2022 is a high-performa Cars Mercedes-Benz	Mercedes-Benz SL-Class 2022 The Mercedes-Benz SL-Class 2022 is a luxurious an Cars Mercedes-Benz	Mercedes-Benz A-Class Sedan 2022 The Mercedes-Benz A-Class Sedan 2022 is a sleek a Cars Mercedes-Benz
3357600Eg <input type="button" value="Details"/>	2781600Eg <input type="button" value="Details"/>	2752800Eg <input type="button" value="Details"/>	855600Eg <input type="button" value="Details"/>
			
Mercedes-Benz GLS-Class SUV 2022 The Mercedes-Benz GLS-Class SUV 2022 is a luxuri Cars Mercedes-Benz	Mercedes-Benz CLA-Class Coupe 2022 The Mercedes-Benz CLA-Class Coupe 2022 is a styl Cars Mercedes-Benz	BYD Qin The BYD Qin is a plug-in hybrid electric vehicle Cars BYD	BYD e5 The BYD e5 is an electric sedan that delivers a c Cars BYD
1878701.6Eg <input type="button" value="Details"/>	916800Eg <input type="button" value="Details"/>	418800Eg <input type="button" value="Details"/>	1042320Eg <input type="button" value="Details"/>
			
BYD e6 2021 The BYD e6 is a fully electric vehicle with a ran Cars BYD	BMW X6 ma 2lt gmda Cars BMW	getar ma 2lt gamd Instruments fifty	American Eagle Classic Fit Oxford Short-Sleeve Button-Up Shirt Timeless and versatile Oxford shirt with a classi Clothes American Eagle
939600Eg <input type="button" value="Details"/>	1000000Eg <input type="button" value="Details"/>	3000Eg <input type="button" value="Details"/>	720Eg <input type="button" value="Details"/>

The screenshot shows a product page for an iPhone 13. At the top, there's a navigation bar with links for Categories, Shopping, ScheduleAuction, LiveAuction, Login, and SignUp. A banner below the navigation bar says "Welcome to our auction site, where great deals await!". The main image displays the front and back of the iPhone 13 in white. To the right, a box labeled "INSTANT" provides item details: "Item Condition : New", "Time Zone UTC/GMT", and "Reserve price has been met". It also includes a "Add to your favorite list!" button and a "Buy now for EGP 30750 e.g." button. Below the main image are four smaller images showing different angles of the phone. On the left, a section titled "MOBILES" lists "iPhone 13" as "The iPhone 13 is the latest flagship smartphone". A table provides technical specifications: Screen resolution (2532 x 1170 pixels), Screen Hz (60), Memory Size (128GB), Model year (2021), and Country (Country). At the bottom, there's a "GET IN TOUCH" form with fields for Name, Email Address, Content, and a Send button. The background features a dark blue-to-green gradient.

iPhone 13	
The iPhone 13 is the latest flagship smartphone	
Screen resolution	2532 x 1170 pixels
Screen Hz	60
Memory Size	128GB
Model year	
Country	

Rows per page: 5 ▾ 1–5 of 10 | < > >>

GET IN TOUCH

Name _____

Email Address _____

Content _____

Auction@mail.com
02 2390811

[Send](#)

[TERMS & CONDITIONS](#) [ABOUT US](#)

Figure 61 Product View

- 4.6 Product Upload

Welcome to our auction site, where great deals await!

INSTANCE SALE **LIVE AUCTION** **SCHEDULED AUCTION**

Product Name: Car Category: Automotive Sub Category Name: Cars Product Material:

Product Brand: Description: Summary: Color:

Price: Sets Number: State: New Used Car Model:

Car Mileage: Horse Power: Gear Stick: Manufacture year:

Manufacture Country: Class: Car CC: Interchange:

Structure: Fuel Type:

UPLOAD

Figure 62 Upload Product Instance

Welcome to our auction site, where great deals await!

INSTANCE SALE **LIVE AUCTION** **SCHEDULED AUCTION**

Product Name: Category: Sub Category Name: Date Of Auction: mm/dd/yyyy

Start Time: Waiting Time: Product Material: Product Brand:

Description: Summary: Color: Price:

Size: State: New Used

UPLOAD

Figure 63 Upload Product Live Auction

Welcome to our auction site, where great deals await!

INSTANCE SALE **LIVE AUCTION** **SCHEDULED AUCTION**

Product Name: Car Category: Automotive Sub Category Name: Cars Start Date Of Auction: mm/dd/yyyy

Start Time Of Auction: End Date Of Auction: mm/dd/yyyy End Time Of Auction: Product Material:

Product Brand: Description: Summary: Color:

Price: Sets Number: State: New Used Car Model:

Car Mileage: Horse Power: Gear Stick: Manufacture year:

Manufacture Country: Class: Car CC: Interchange:

Structure: Fuel Type:

UPLOAD

Figure 64 Upload Product Schedule Auction

- 4.7 Mobile shots

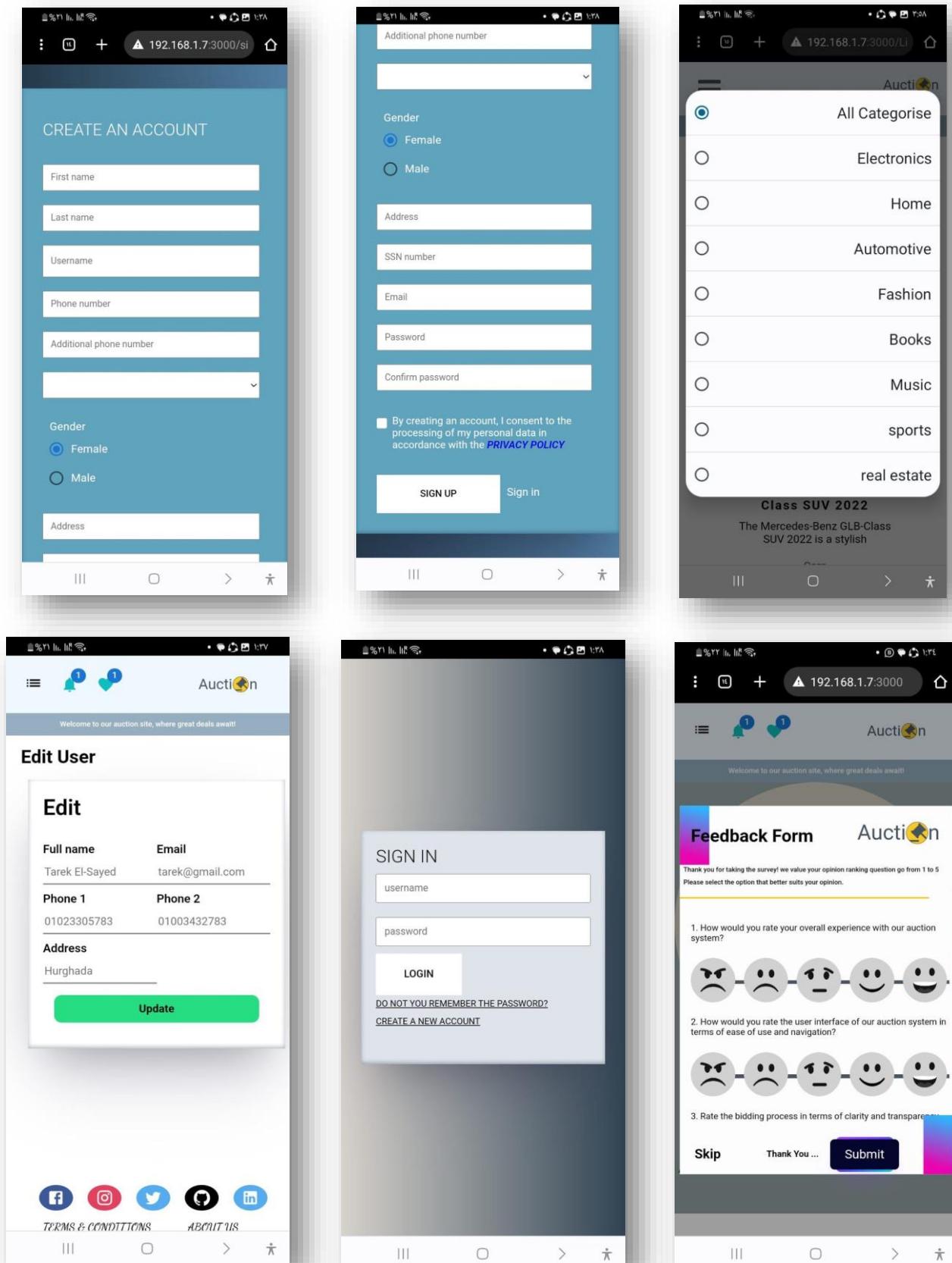


Figure 65 Random Mobile Shots

- 4.8 Admin Page



Figure 66 Admin Page : Home (Light Mode)



Figure 67 Admin Page : Home (Dark Mode)

Dashboard

Quick Menu

- Home
- users
- products
- deposite
- transaction
- reports
- change category image
- notifications
- mail
- staff
- add employee
- permission

1784 Eg -840 ⚡ Loss
Compered last Month

equipments
76 Eg 770 ⚡ Profit
Compered last Month

0 Eg 0 ⚡ Loss
Compered last Month

villa
184000 Eg -184000 ⚡ Loss
Compered last Month

New Member

Name	Email	Action
Omar Hany	omarhany@gmail.com	
Mona Mohamed	mona@gmail.com	
Abdo Gaber	gaber@gmail.com	
Mohamed Honda	honda@gmail.com	

latest transactions

Customer	Date
Petar	2 Jun 2023

June 2023

Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

Figure 68 Admin Page : Home Controls

Dashboard

Quick Menu

- Home
- users
- products
- deposite
- transaction
- reports
- change category image
- notifications
- mail
- staff
- add employee
- permission

Mobiles
0 Eg 0 ⚡ Loss
Compered last Month

Watches
0 Eg 49 ⚡ Profit
Compered last Month

camera
1784 Eg -840 ⚡ Loss
Compered last Month

equipments
76 Eg 770 ⚡ Profit
Compered last Month

TV
0 Eg 0 ⚡ Loss
Compered last Month

apartment
0 Eg 0 ⚡ Loss
Compered last Month

chalet
0 Eg 0 ⚡ Loss
Compered last Month

villa
184000 Eg -184000 ⚡ Loss
Compered last Month

Figure 69 Admin Page : Home Statistics

User	Gender	E-mail	Status	Phone	Phone-2	Category_check	terms_check
Mohamed Honda	Male	honda@gmail.com	Active	01062722185		True	True
Abdo Gaber	Male	gaber@gmail.com	Active	01143678455	01007914655	True	False
Mona Mohamed	Female	mona@gmail.com	Active	01144678455		False	True
Omar Hany	Male	omarhany@gmail.com	Active	01013767684		True	False
Rana Sayad	Female	rana@gmail.com	Active	01013867684		False	True
Omar Magdy	Male	omarmagdy@gmail.c...	Active	01159629694	01094979164	True	False
Banam Ve	Female	banam@gmail.com	Active	01151629694		False	True
Michael Martinez	Male	michael@gmail.com	Active	01023305822	01003432822	False	True
Omar Patel	Male	omar@gmail.com	Active	01023305971	01003432971	False	True
Nathan Johnson	Male	nathan@gmail.com	Active	01023305219	01003432219	False	True

Figure 70 Admin Page : Users 1

User	Phone	Phone-2	Category_check	terms_check	Unblock-User	Action	Block->
ve	01062722185		True	True	✓	Details	🚫
ve	01143678455	01007914655	True	False	✓	Details	🚫
ve	01144678455		False	True	✓	Details	🚫
ve	01013767684		True	False	✓	Details	🚫
ve	01013867684		False	True	✓	Details	🚫
ve	01159629694	01094979164	True	False	✓	Details	🚫
ve	01151629694		False	True	✓	Details	🚫
ve	01023305822	01003432822	False	True	✓	Details	🚫
ve	01023305971	01003432971	False	True	✓	Details	🚫
ve	01023305219	01003432219	False	True	✓	Details	🚫

Figure 71 Admin Page : Users 2

Dashboard

- Home
- users
- products
- deposite
- transaction
- reports
- change category image
- notifications
- mail
- staff
- add employee
- permission

The Microsoft Surface Pro 8 is a powerful 2-in-1

Color Platinum

Size 292mm x 201mm x 8.5mm

Status New

PayWay Live Auction

Accept | Refuse

Figure 72 Admin Page : Product View

Dashboard

- Home
- users
- products**
- deposite
- transaction
- reports
- change category image
- notifications
- mail
- staff
- add employee
- permission

I..	Item	Pay way	Status	Price	Action
21	Surface Pro 8	Live Auction	New	22764.8 \$	Details
22	Galaxy Tab S6 Lite	Live Auction	New	8800 \$	Details
24	Tab M8 HD	Live Auction	New	2160 \$	Details
52	Seiko Prospx	Live Auction	New	6639.200000000002	Details
54	Movado Museum Cl.	Live Auction	New	10400 \$	Details
84	Mercedes-Benz CLS	Live Auction	New	1737798.4 \$	Details
32	Legion Pro 7i Gamin	Schedule Auction	New	58400 \$	Details
33	ROG Strix G16 (202	Schedule Auction	New	27200 \$	Details
36	EliteBook 840 G4 La	Schedule Auction	New	21067.2 \$	Details
39	VivoBook F510UA-A	Schedule Auction	New	13820 \$	Details
93	BYD Tang	Schedule Auction	New	1141200 \$	Details

1-12 of 32 < >

Figure 73 Admin Page: Products (All)

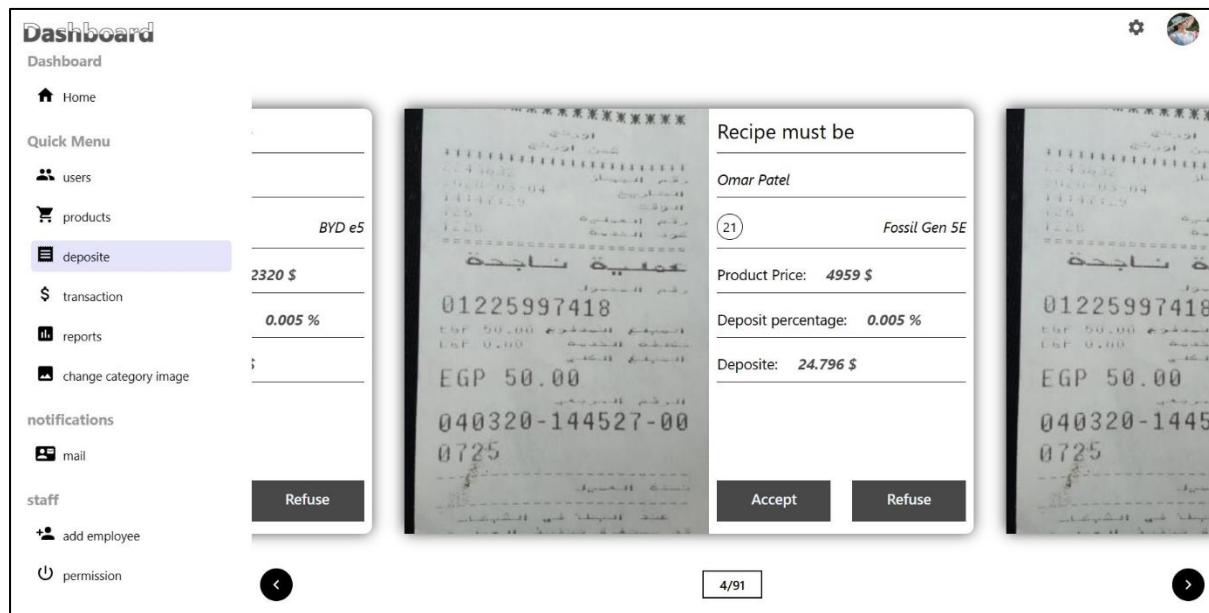


Figure 74 Admin Page : Deposits View

Dashboard						
Quick Menu						
Transactions						
Status	Price	Seller name	Start Action	Transaction	End Action	winner
New	23377	Rana Sayad	18/3/2023 8:57:0	Sold	18/3/2023 9:20:0	Emily Brown
New	1600	Mona Mohamed	1/5/2023 20:3:0	Sold	1/5/2023 20:31:0	Yassin Mohamed
New	2400	Mona Mohamed	7/3/2023 3:32:0	Sold	7/3/2023 3:58:0	Tarek El-Sayed
New	5600	Omar Magdy	11/5/2023 5:19:0	Sold	11/5/2023 5:38:0	Christopher Lee
New	6400	Omar Hany	24/5/2023 23:20:0	Sold	24/5/2023 23:42:0	Maria Garcia
New	32000	Mona Mohamed	26/4/2023 0:31:0	Sold	26/4/2023 0:53:0	Anthony Williams
New	24000	Omar Hany	23/4/2023 18:20:0	Sold	23/4/2023 18:47:0	Yassin Mohamed
New	35200	Rana Sayad	29/3/2023 11:46:0	Sold	29/3/2023 12:6:0	Adam Lee
New	6159	Omar Magdy	22/5/2023 8:24:0	Sold	22/5/2023 8:50:0	Daniel Garcia
New	7200	Abdo Gaber	28/4/2023 1:54:0	Sold	28/4/2023 2:9:0	Tarek El-Sayed
New	42400	Omar Magdy	28/5/2023 12:26:0	Sold	28/5/2023 12:39:0	Sara Johnson

Figure 75 Admin Page: Transactions

Dashboard

Dashboard

- Home

Quick Menu

- users
- products
- deposite
- transaction
- reports
- change category image

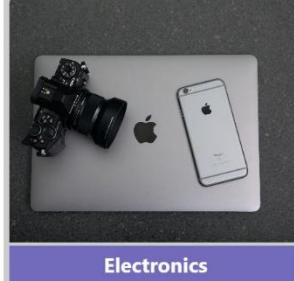
notifications

- mail

staff

- add employee
- permission

Main Category Sub Category



Electronics

Change Image



Home

Change Image



Automotive

Change Image



Fashion

Change Image



Books

Change Image



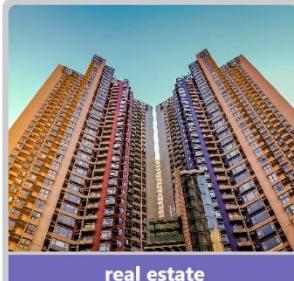
Music

Change Image



sports

Change Image

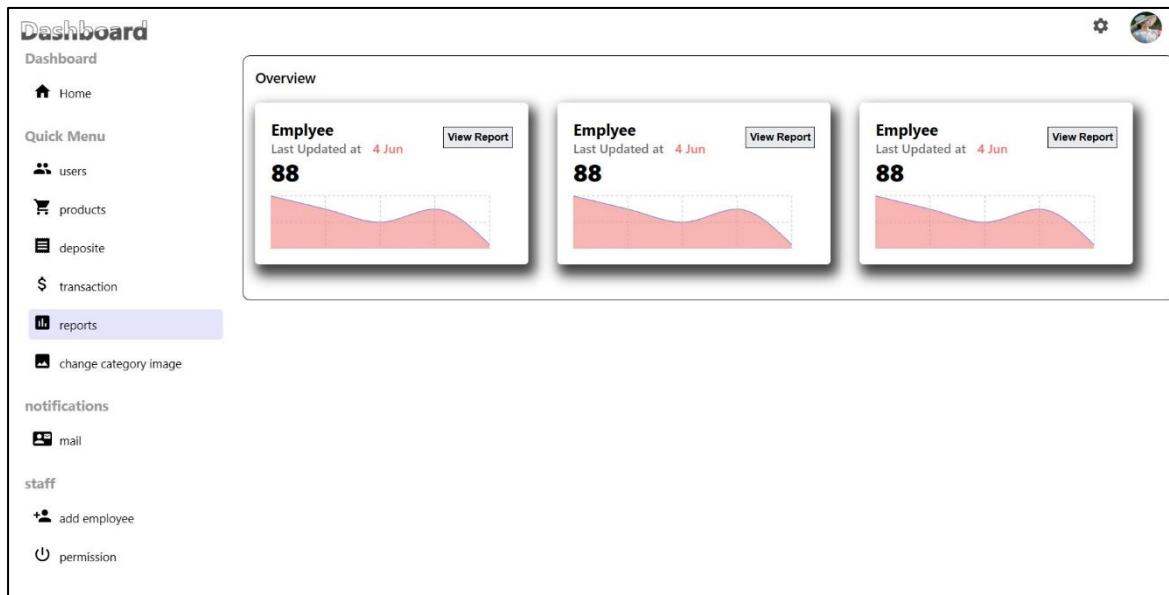


real estate

Change Image

Main Category Sub Category Name

Figure 76 Admin Page: Change Category image



Admin Page: Reports 77 Figure

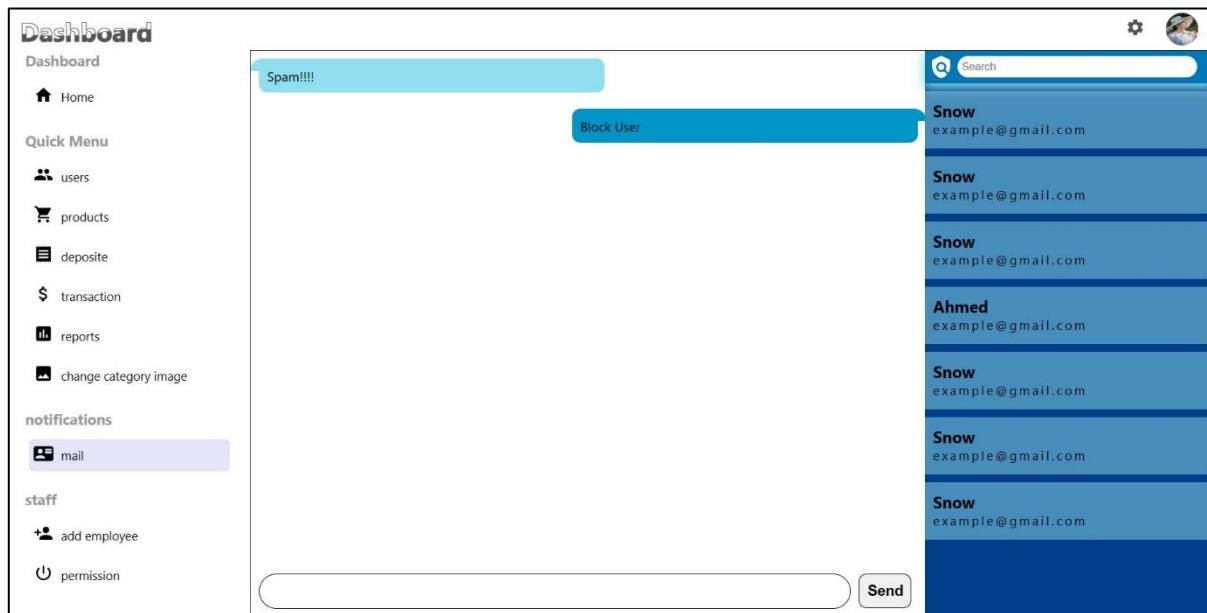


Figure 78 Admin Page : Mail

Dashboard

Dashboard

- [Home](#)
- [users](#)
- [products](#)
- [deposite](#)
- [transaction](#)
- [reports](#)
- [change category image](#)
- [notifications](#)
- [mail](#)
- [staff](#)
- [add employee](#)
- [permission](#)

Add new employee

Employee First Name	Employee Last Name	
Username	Address	
Phone number	Other phone number	
SSN	Email	
Gender	Manager	Salary
<input style="width: 100%; height: 25px; border: 1px solid #ccc;" type="text"/>		<input style="width: 100%; height: 25px; border: 1px solid #ccc;" type="text"/>
<input style="width: 100%; height: 25px; border: 1px solid #ccc;" type="password"/>		
 Submit & Save		

Figure 79 Admin Page : Add Employee

Dashboard

Dashboard

- [Home](#)
- [users](#)
- [products](#)
- [deposite](#)
- [transaction](#)
- [reports](#)
- [change category image](#)
- [notifications](#)
- [mail](#)
- [staff](#)
- [add employee](#)
- [permission](#)

Employees Management

Image	Name	E-mail	Main Phone	sub-Phone	Permission	Block...	Unblo...
	Ahmed Gamal	ahmed@gmail.com	01555734756	011	Permission	Block	Unblock
	Eslam Mohamed	eslam@gmail.com	01023305133	Dont Have :(Permission	Block	Unblock
	Mohamed Adel	mody@gmail.com	01155237943	01558124447	Permission	Block	Unblock
	Mohamed Magdy	megz@gmail.com	01117125043	Dont Have :(Permission	Block	Unblock
	Zyad Ashraf	zyad@gmail.com	01153386684	Dont Have :(Permission	Block	Unblock
	Eslam Mohamed	eslam1@gmail.com	01023305622	01003432622	Permission	Block	Unblock
	Ahmed Ali	ahmed1@gmail.com	01023305347	01003432347	Permission	Block	Unblock
	John Smith	john@gmail.com	01023305870	01003432870	Permission	Block	Unblock
	Robert Lee	robert@gmail.com	01023305560	01003432560	Permission	Block	Unblock

1-10 of 10 < >

Figure 80 Admin Page : Permissions

Chapter 5: Project Implementation

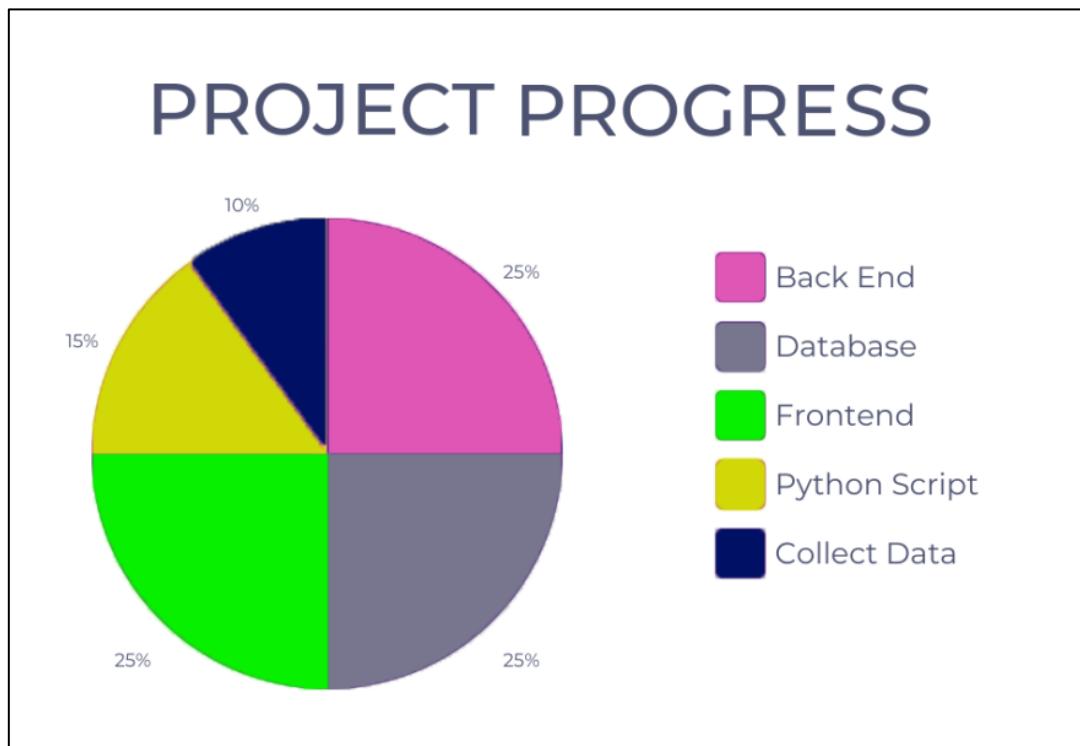


Figure 81 Project Progress Pi Chart

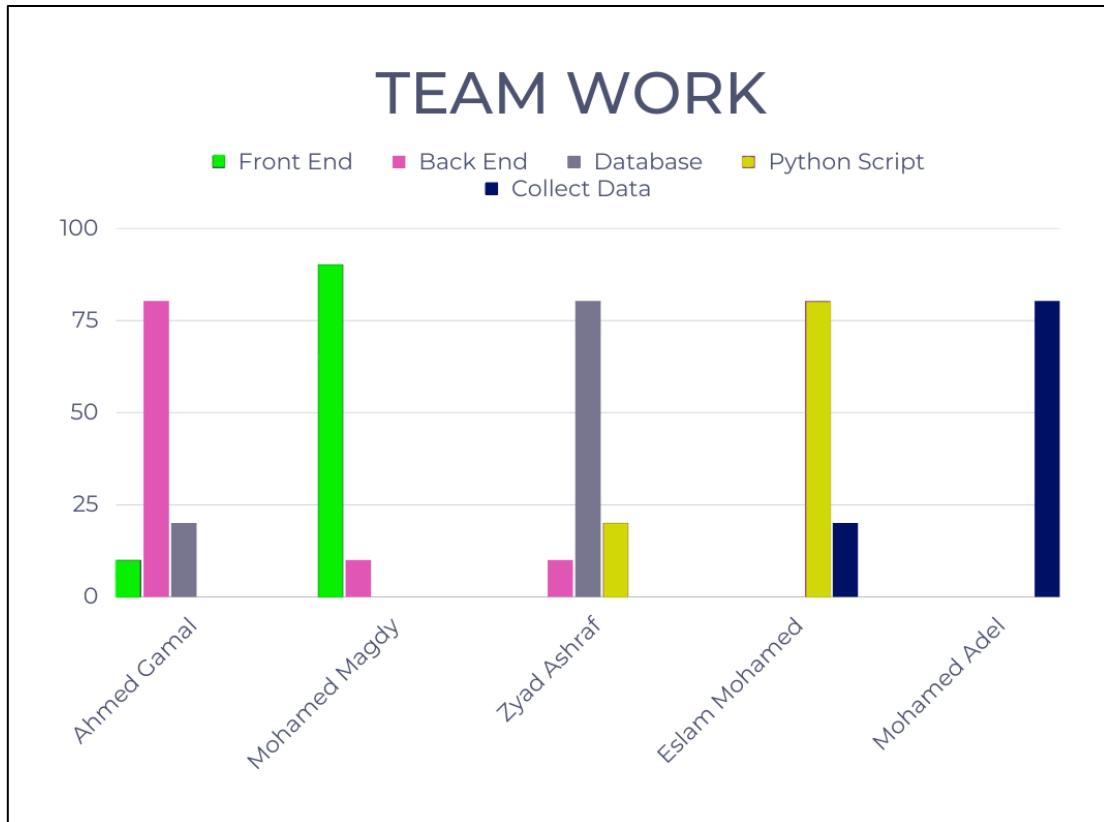


Figure 82 Team Work

DOCMENTATION

TEAM WORK

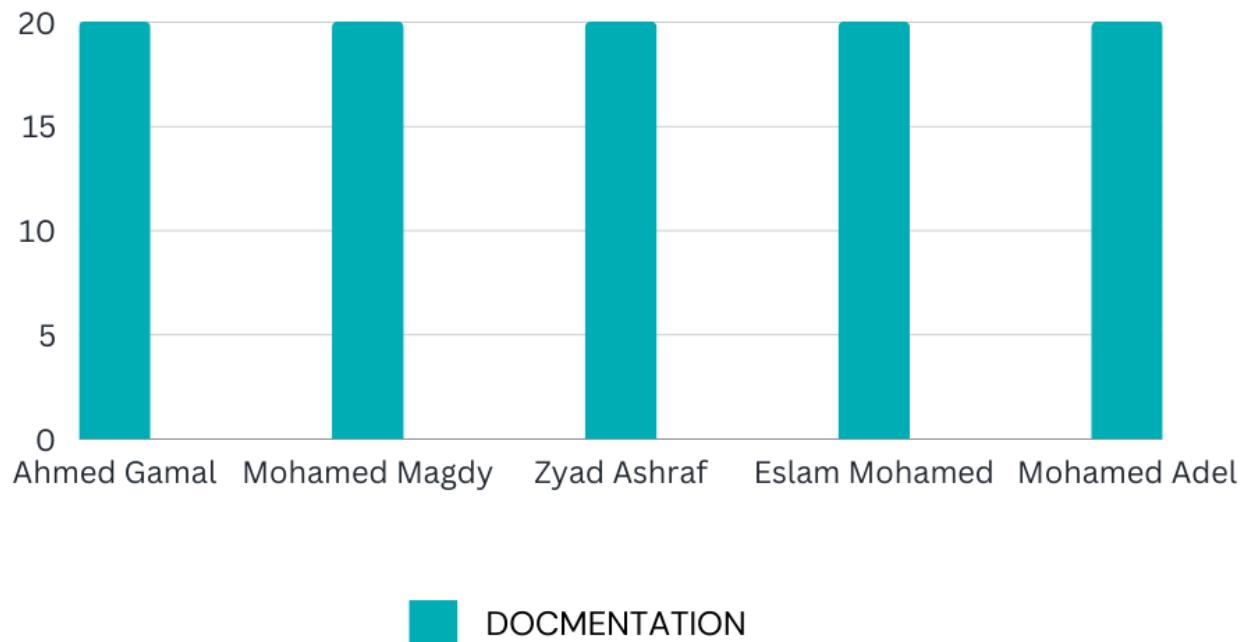


Figure 83 Documentation Progress

Chapter 6: Conclusion and Future Work

5.1 Conclusion:

- Considering this information, we clearly would like to conclude what we have done and what we will do to finish this project as we think.
- We designed the front-end pages of the user: shopping, auction, upload product, sign up, log in, product, and category pages.
- We planned the sequence of every single function on those pages which will lead us to the next page to navigate the user experience from beginning to end.
- We designed the database structure for this project by EERD, Schema, and Normalization of tables.
- We used node.JS to connect the backend and with pages to the database we've created.
- The home page is ready for users to show the latest and trending products.
- The products page is fully functional now and shows the product details to make users satisfied before bidding on or buying it.
- We Created an admin page that controls the movement of the website.
- Admin pages include statistics of products, accounts controller, transactions, deposits, and category changing.
- All product data are real and equivalent to real-time prices updated with JUNE/Egypt local time zone.
- The system is ready to be carried out in the domain server to be online over the internet.

5.2 Future Work:

- We are planning in the future to add more features to the project to make it more powerful and attractive, like we want to add push notifications with cloud service also which will lead us to convert the system to a mobile APP for Android and IOS to make it available on smartphones.
- Also, we wanted to make sure that user safety is more secure, so we are planning to have places for us to make winners and buyers meet in it and ensure that all auction parties are safe. Those places can be available in most locations active by user activities.
- We can add new employees to help customers to answer their questions or calls.

- We are planning to deal with a shipping company to deliver instant products to customers.
- We are planning to deploy our website to a powerful server that can accept a big number of users in it without lagging to evolve the best experience for users.