

**Centre Name: ACE-HCMC-2-FPT.**

**Address: 590 Cach Mang Thang 8, District 3, Ho Chi Minh City, Viet Nam.**

# Online Auction

## Design Document

<b>Supervisor:</b>	Mr. TRAN PHUOC SINH	
<b>Semester:</b>	3	
<b>Batch No:</b>	T1.2008.A0	
<b>Group No:</b>	3	
<b>Order:</b>	<b>Full name</b>	<b>Roll No.</b>
1.	PHAN PHUC THINH	Student1275061
2.	NGUYEN THI MINH THU	Student1273010
3.	TRAN HOANG QUOC TAI	Student1273014
4.	VO THI KIM DUNG	Student1275249

**Month:** December **Year:** 2020

**This is to certify that**

**Mr.PHAN PHUC THINH**

---

**Mrs. NGUYEN THI MINH THU**

---

**Mr. TRAN HOANG QUOC TAI**

---

**Mrs. VO THI KIM DUNG**

---

**have successfully designed & developed:**

**e-Project: ONLINE AUCTION**

---

**Submitted by:**

**Mr. TRAN PHUOC SINH**

---

**Date of issue:** December 20<sup>nd</sup> 2021

**Authorized Signature:**

## Table of Contents

REVIEW 1.....	53
I. ACKNOWLEDGEMENT .....	5
II. Problem definition .....	6
1. Introduction: .....	6
2. Existing System : .....	6
III. Requirement Specification .....	6
1. Customer's Requirement Specifications: .....	6
1.1 Online Auction :.....	6
1.2 Admin .....	7
1.3 Users.....	7
1.3.1 Buyers role: .....	7
1.3.2 Seller role :.....	7
1.4 Payment module of online auction art system:.....	7
1.5 About us .....	8
1.6 Contact us.....	8
2. Functional Requirement Specifications : .....	8
2.1 Function of Admin :.....	8
2.2 Function of Users: .....	8
3. Non-Functional Requirement Specifications:.....	9
4. System Requirement Specifications:.....	10
4.1. Server requirements: .....	10
4.2 Client requirements: .....	10
5. Development Software.....	10
6. Technology .....	10
Task Sheet REVIEW 1.....	Error! Bookmark not defined.1
REVIEW 2.....	12
I. ARCHITECTURE AND DESIGN OF THE PROJECT:.....	13
II. ALGORITHM AND DATA FLOWCHART .....	13
1. Symbol generates: .....	13
2. Main data flowchart for admin and users. ....	14

3. Login process (For both admins and users). .....	15
4. Logout process (For both admin and users). .....	15
5. Insert user (For admin). .....	15
6. Update user (For admin).....	16
7. Delete user (For admin).....	16
8. Insert , update ,delete Product(For users and admin). .....	17
9. Insert , update ,delete Auction(For users and admin). .....	18
9. Insert , update ,delete Category for admin.....	19
10. Crrate Rating (For users).....	19
11. Bid AMOUNT (For buyers) .....	20
<b>III. Use Case Diagram .....</b>	<b>20</b>
1. Admin Use Case Diagram.....	21
2. Seller Use Case Diagram:.....	22
3. Buyer Use Case Diagram.....	23
<b>IV. Entities &amp; Attributes .....</b>	<b>24</b>
1. Category .....	24
2. Products .....	25
3. User .....	25
4. Auction .....	25
3. AuctionBid.....	26
4. Rating .....	26
5. Message .....	27
6. Commnent.....	27
7. News.....	28
<b>V. Entity Relationship Diagram (ERD Concept) .....</b>	<b>29</b>
<b>Task Sheet REVIEW 2.....</b>	<b>30</b>
<b>REVIEW 3.....</b>	<b>31</b>
<b>I. Table Structure (ERD Physical) .....</b>	<b>32</b>
<b>II. Database Design .....</b>	<b>33</b>
<b>III. Site Map.....</b>	<b>37</b>
1. User Sitemap.....	37
2. Admin Sitemap.....	38

---

Task Sheet REVIEW 3.....	53
--------------------------	----

# REVIEW 1

## **I. ACKNOWLEDGEMENT**

- First and foremost, we would like to express the deepest appreciation to our admirable instructor – Mr. TRAN PHUOC SINH. During the time of the project, he continually and convincingly conveyed a spirit of adventure in regard to research and scholarship, and an excitement in regard to teaching. Without his guidance and persistent help this dissertation would not have been possible. Therefore, once again, we truly value your dedication and guidance, Mr. SINH.
- Next, it would have been impossible to carry out and complete this project without the collaboration among our team members. Although we have gone through many obstacles during the project implementation, eventually we gained what we aimed at by our hard work, our strong commitment and of course, our brotherhood.
- Finally, thanks to Aptech's e-Project team, we had a golden opportunity to apply what we have learnt into reality and gain hands-on experience which is essential for our future career.

## II. PROBLEM DEFINITION

- **Online Auction (OA)** is an online application, used to display and sell products of big brands (Nike, Adidas, Apple,...) through auction. Auctioneers can register online for membership in the online auction room and each bidder can upload copies of their products. They can store their products for auction or for a fixed price. The auctioneer is responsible for paying a fraction of the price of each product to the site in order to find funds to run the site.
- **ADMIN:** The administrator will log in and update the website's data. Admin can add or remove templates, images. In addition, the administrator can view the responses received from users. Admin can see a list of all transactions made. Users can manage their profile, purchase products and make payments. Payment details must be checked by Admin.
- **FAVORABLE:**
  - No Address Binding: Vendors and auctioneers can participate in auctions from anywhere with Internet access.
  - The power of social interaction
  - Large number of bidders
  - Large number of sellers
  - Business networks. A large number of auction participants will encourage many sellers, conversely a large number of sellers will increase the number of bidders.
  - Various auction items, relatively low product value
- **WEAKNESS:**
  - Buyers only see products through pictures posted online
  - High risk because of virtual products, virtual buyers

## III. REQUIREMENT SPECIFICATION

### 1. Customer's Requirement Specifications:

#### 1.1 Online Auction :

- The website allows users to view auction products offered by OA.
- The website contains all kinds of products by categories such as sale products, new products.
- The homepage should be well designed and formatted with all proper navigation links, site headers and footers, Links to login to the site.



- It must contain links such as Home; discount products, new products, Payment methods, About us, Contact, Login (admin and user).

## **1.2 Admin**

- ✓ Admin give the access to the users who want to become the member of the Online Auction.
- ✓ Admin will set up the Categories of the items. A category is a logical subdivision of products (eg: Furniture, Electronic Accessories, Books) Admin should be able to Create Categories, Merge Category etc..
- ✓ Whenever the buyers want to purchase products from the Online Auction they can bid by providing a bid amount (which should be greater than the previous bid).

## **1.3 Users**

Users is classified by 2 categories : artist role who want to display and sell the art works on the website and the buyers (art lovers) role who want to buy the art works.

### **1.3.1 Buyers role:**

- ✓ Once a buyer has login information, they can create their profile to be able to access new products and check the information to be able to bid on that product.
- ✓ Buyers can also upload their data related to their personal information like name, address, phone... etc.
- ✓ Buyers can review and rate the products.

### **1.3.2 Auctioneer role :**

- ✓ Auctioneers can register as members and pay a small portion of the price of each product to the site to finance the site's operations.
- ✓ Auctioneers can hold auctions and sell products at the maximum bid price.

## **1.4 Payment Module of OA System:**

- ✓ This modules helps the buyers to make the financial transactions easily.
- ✓ The buyers can make a deposit or make the payment with different payment methods such as :debit card, credit card or through net banking(ex: PayPal).
- ✓ The buyers will get the notification to complete the payment prior two to three days so that buyers don't get any late charges.

## 1.5 About us

- ✓ The admin can change or update easily the design and the content of the About us page .

## 1.6 Contact us

- ✓ The admin can change or update easily the design and the content of the Contact us page .

## 2. Functional Requirement Specifications :

### 1.1 Function of Admin :

- ✓ REQ-01: Login, Logout.
- ✓ REQ-02: Change Password.
- ✓ REQ-03: Manage user.
- ✓ REQ-04 : Manage category products.
- ✓ REQ-05: Manage history of auctions
- ✓ REQ-05: Manage the information of the products.

### 1.2 Function of Users:

#### 2.2.1. Function of buyers:

- ✓ REQ-06 : Register.
- ✓ REQ-07 : Login, Logout.
- ✓ REQ-08 : Receive the notification and verification by email.
- ✓ REQ-09 : Search the product by categories and title.
- ✓ REQ-10: View the information about the products
- ✓ REQ-11 : Participate the auction by submitting their bids.
- ✓ REQ-12 : For each product sold, the seller will rate the buyer.
- ✓ REQ-13 : Contact the admin.

#### 2.2.2. Function of auctioneer:

- ✓ REQ-14: Register.
- ✓ REQ-15: Login, Logout.
- ✓ REQ-16 : Create new product and edit information product.
- ✓ REQ-17 : Create the auction or delete the auction if unsatisfied.
- ✓ REQ-18: Pay a fraction of the price of each product to the Website.
- ✓ REQ-23 : Contact the admin.

## 2. Non-Functional Requirement Specifications:

- ✓ Login by Facebook, Gmail.
- ✓ Report.
- ✓ Realtime of auction.

## 3. System Requirement Specifications:

### 4.1. Server requirements:

#### ✓ Hardware

Component	Requirement
<b>CPU</b>	Processor type: Pentium IV-compatible processor or faster Processor speed: Recommended: 2.0 GHz or faster
<b>OS</b>	Microsoft Windows XP or higher with IIS
<b>Memory (RAM)</b>	RAM: Minimum: 512 MB Recommended: 2 GB or more
<b>Hard Drive</b>	Free space: Minimum: 200 MB Recommended: 50 GB or more Maximum: Operating system maximum

#### ✓ Software :

Component	Requirement
<b>ASP.NET Core</b>	Version .NET Core 5.0
<b>RDBMS</b>	Microsoft SQL Server

### 4.2 Client requirements:

#### ✓ Hardware

Component	Requirement
<b>CPU</b>	Processor type: Pentium III-compatible processor or faster Processor speed: Recommended: 1.0 GHz or faster
<b>OS</b>	All OS (Window, Linux, Android, Mac OS ...)
<b>Memory (RAM)</b>	RAM:

	Minimum: 512 MB Recommended: 1 GB or more Maximum: Operating system maximum
<b>Hard Drive</b>	Free space: Minimum: 10 MB

✓ **Software**

Component	Requirement
<b>Web Browser</b>	IE 4.0 , Firefox 3.0, Chrome or Higher.....

#### 4. Development Software

- ✓ Microsoft SQL Server
- ✓ Microsoft Visual Studio 2019

#### 5. Technology

- ✓ ASP.NET Core 5.0
- ✓ Entity Framework Core 5.0.12

## TASK SHEET REVIEW 1

Project Ref. No.:		Project Title:	Activity Plan Prepared By:	Date of Preparation of Activity Plan:			
e-P/Advertisement Portal Management System/01				Actual Start Date	Actual Days	Team Mate Names	Status
No.	Task						
1	Acknowledgement	Online Auction	PHAN PHUC THINH	20/12/2021	1	All member	Completed
2	Problem Definition			20/12/2021	1	All member	Completed
3	Requirement Specification			20/12/2021	1	All member	Completed
4	Task sheet review			20/12/2021	1	All member	Completed

**Date: 20/12/2021**

Signature of Instructor:

**Mr. TRAN PHUOC SINH**

Signature of Team Leader:

**PHAN PHUC THINH**

# REVIEW 2

## I. ARCHITECTURE AND DESIGN OF THE PROJECT:

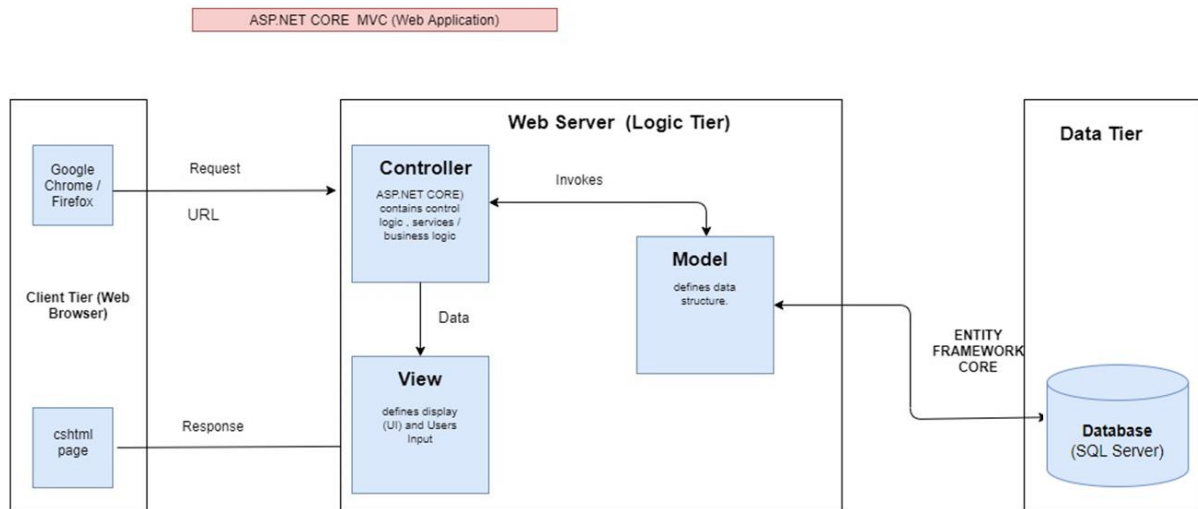


Figure 1: Architecture and Design of the Project

## II. ALGORITHM AND DATA FLOWCHART

### 1. Symbol generates:

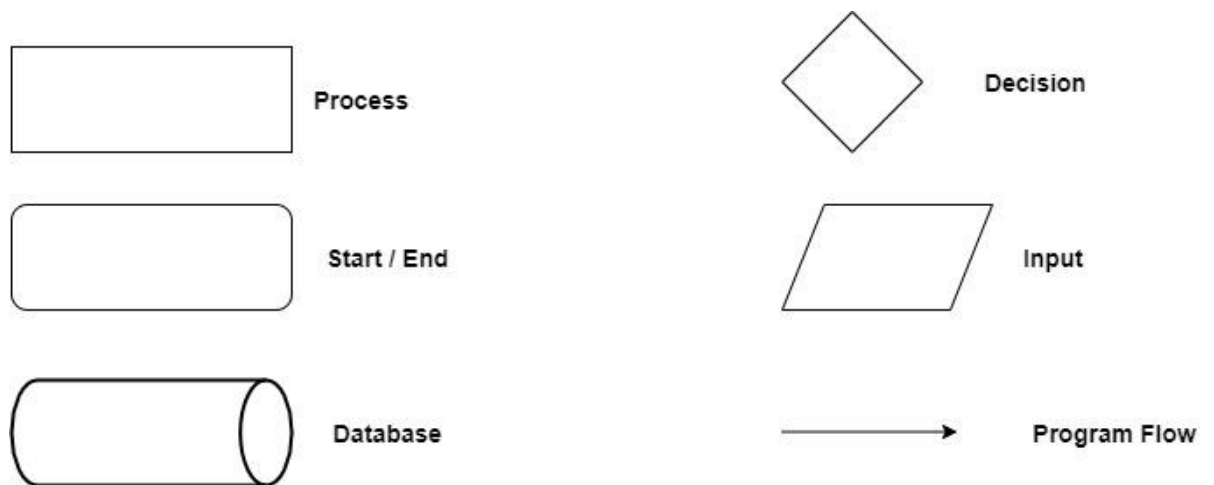


Figure 2: Symbol used in flowchart.

## 2. Main data flowchart for admin and users.

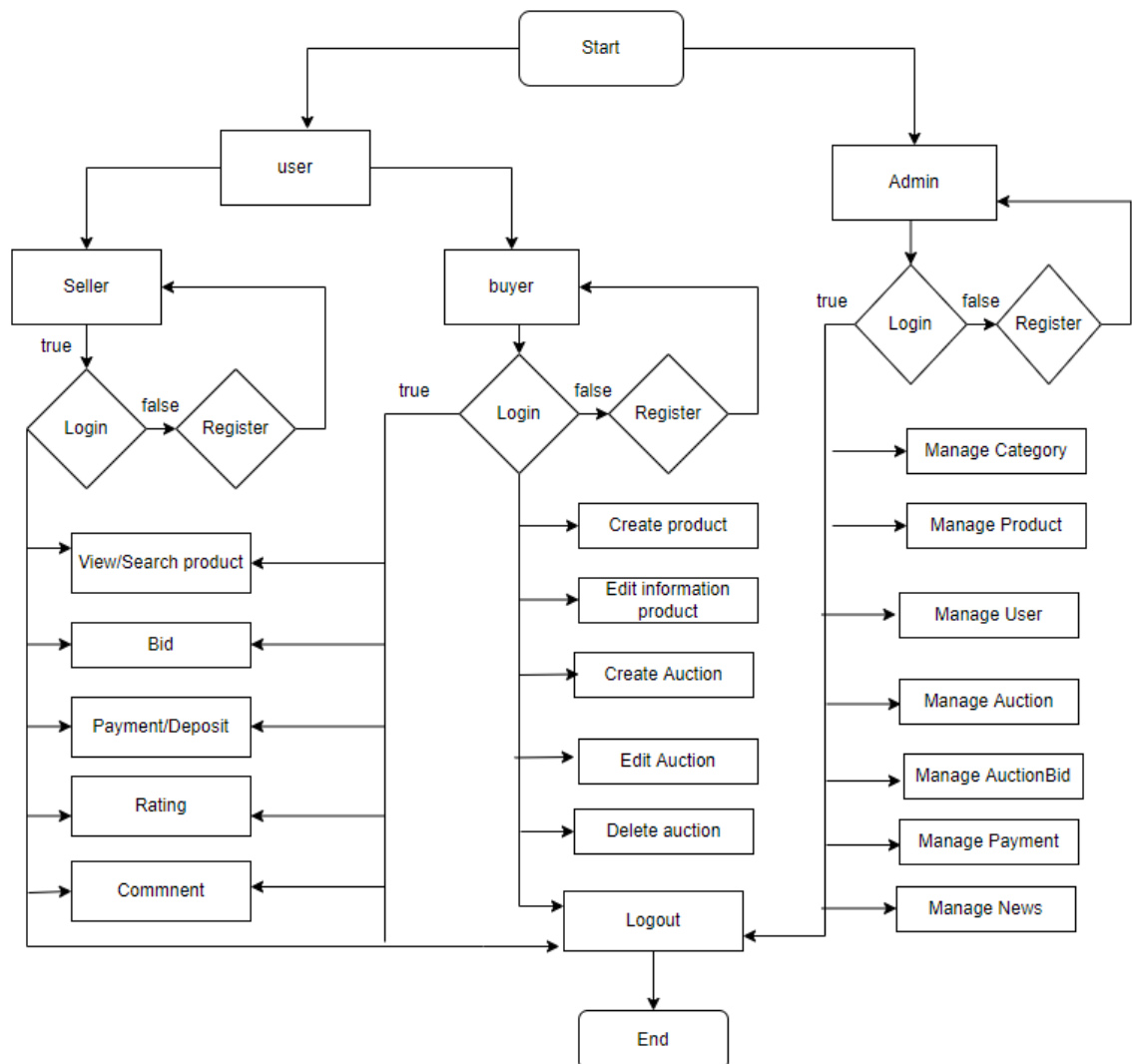


Figure 3: Main flowchart (For both admin and users).



### 3. Login process (For both admins and users).

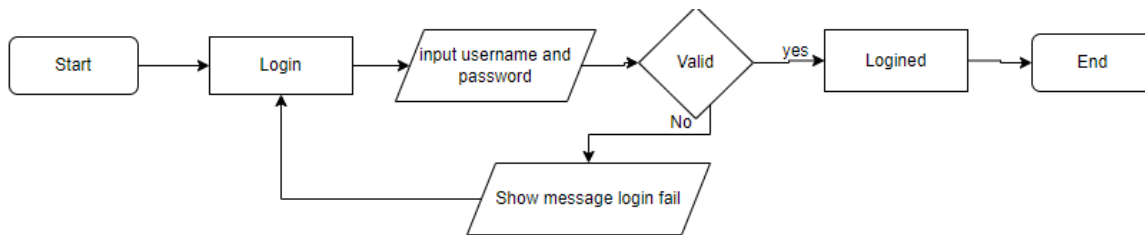


Figure 4: Login process.

### 4. Logout process (For both admin and users).



Figure 5: Logout process

### 5. Insert user (For admin).

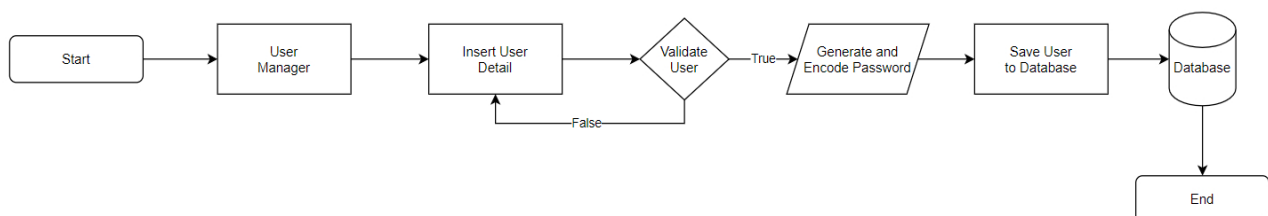


Figure 6: Insert user.

## 6. Update user (For admin).

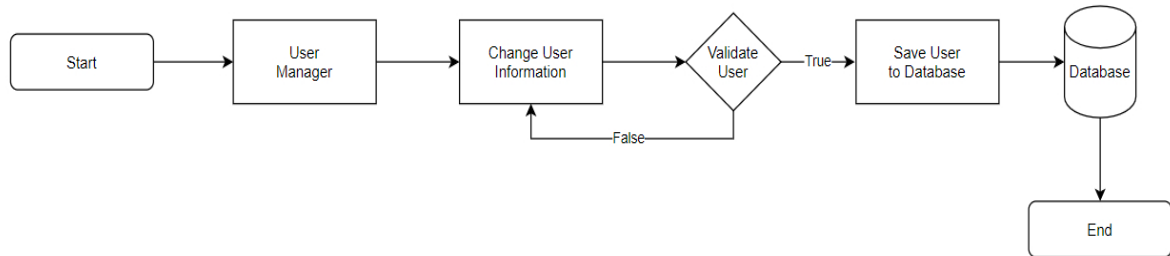


Figure 7: Update user

## 7. Delete user (For admin).

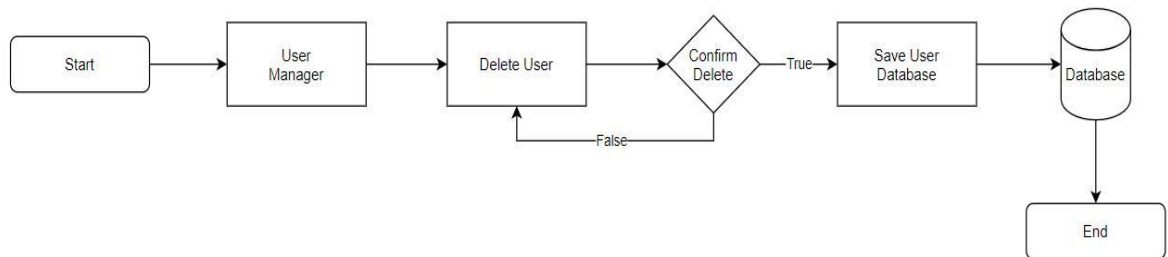


Figure 8: Delete user.

## 8. Update user's information (For User only)

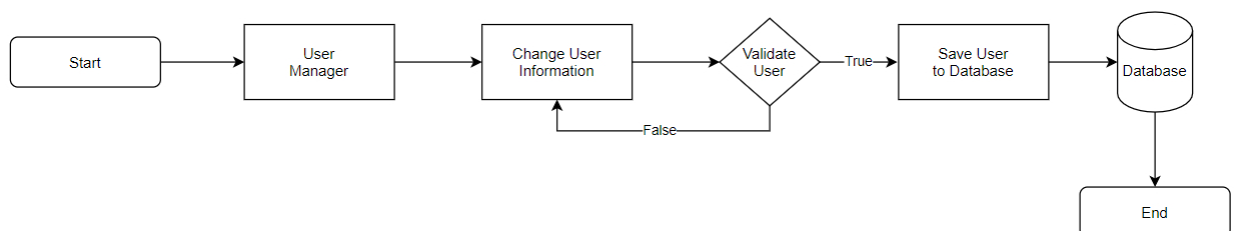
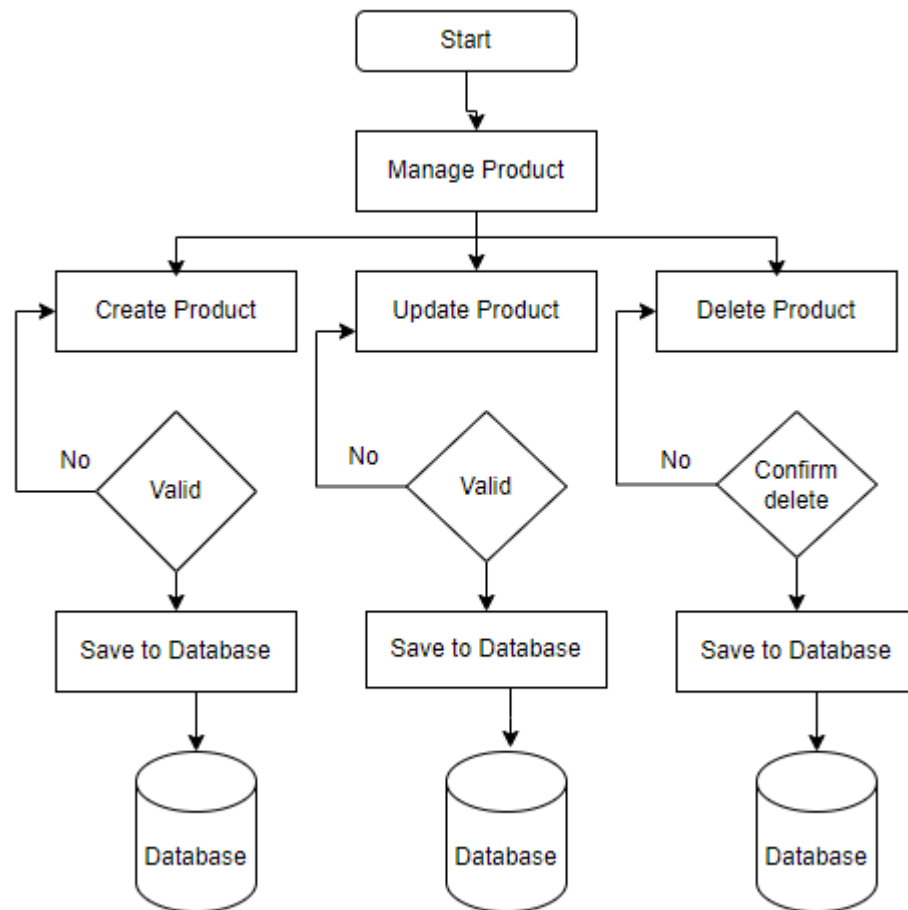
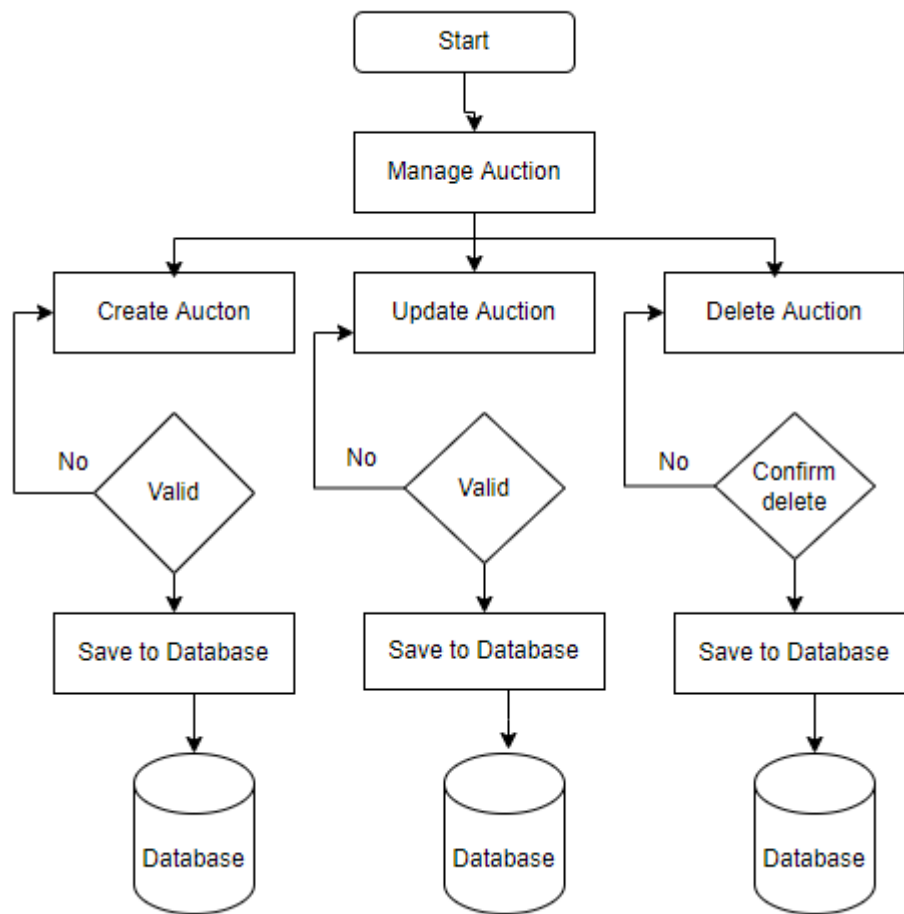


Figure 9: Update user.

**9. Create, Edit and Delete Product (For admin and users).***Figure 10: Manage Product.*

**10.Insert, Update, Delete Auction (For admin and users).***Figure 11: Manage Auction*

## 11.Insert, Update, Delete Category (For admin only)

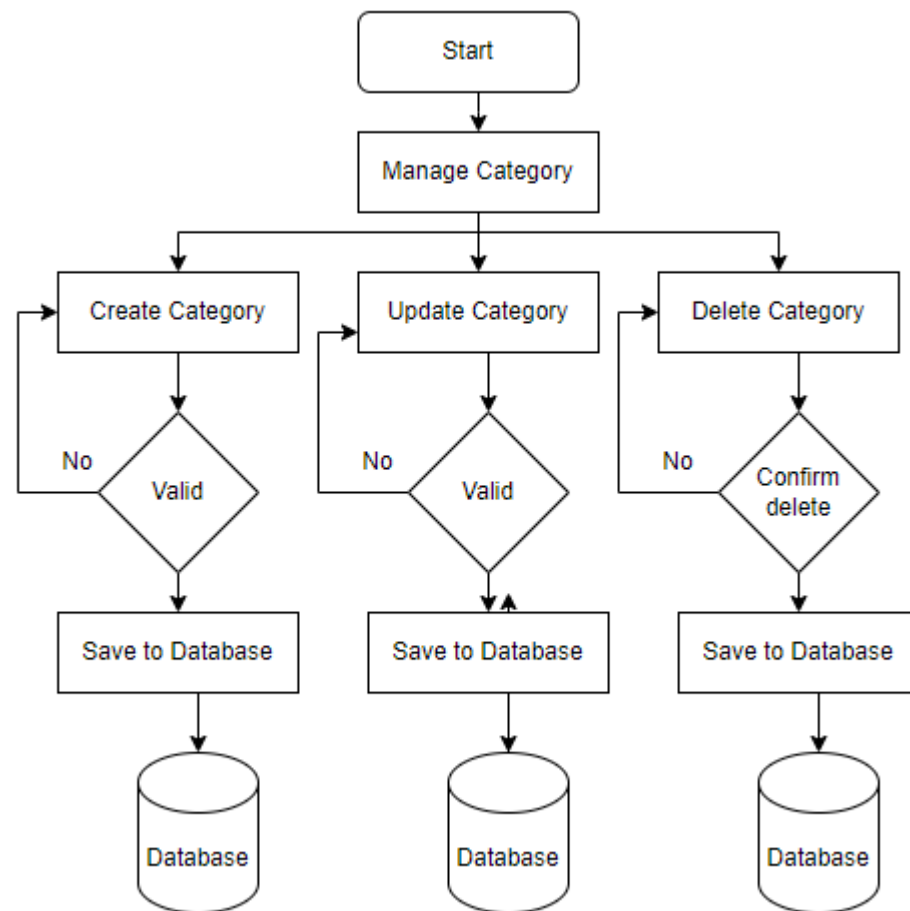


Figure 12: Manage Category

## 12.Create Rating (For both admin and users).

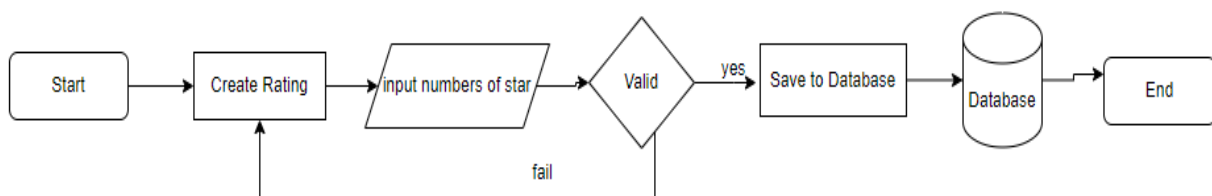


Figure 13: Create Rating.

### 13.Bit price online (For buyers)

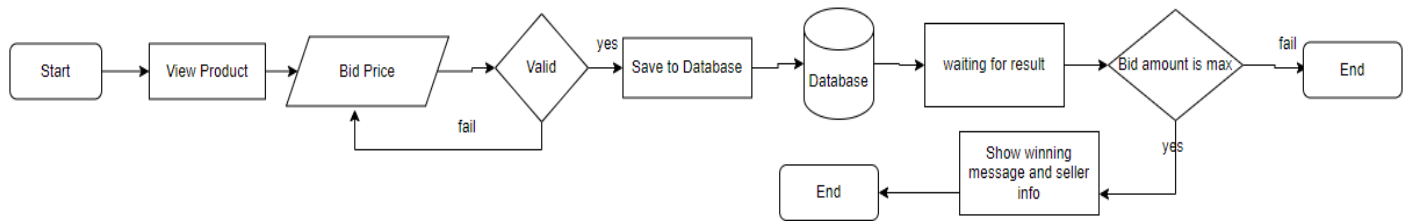
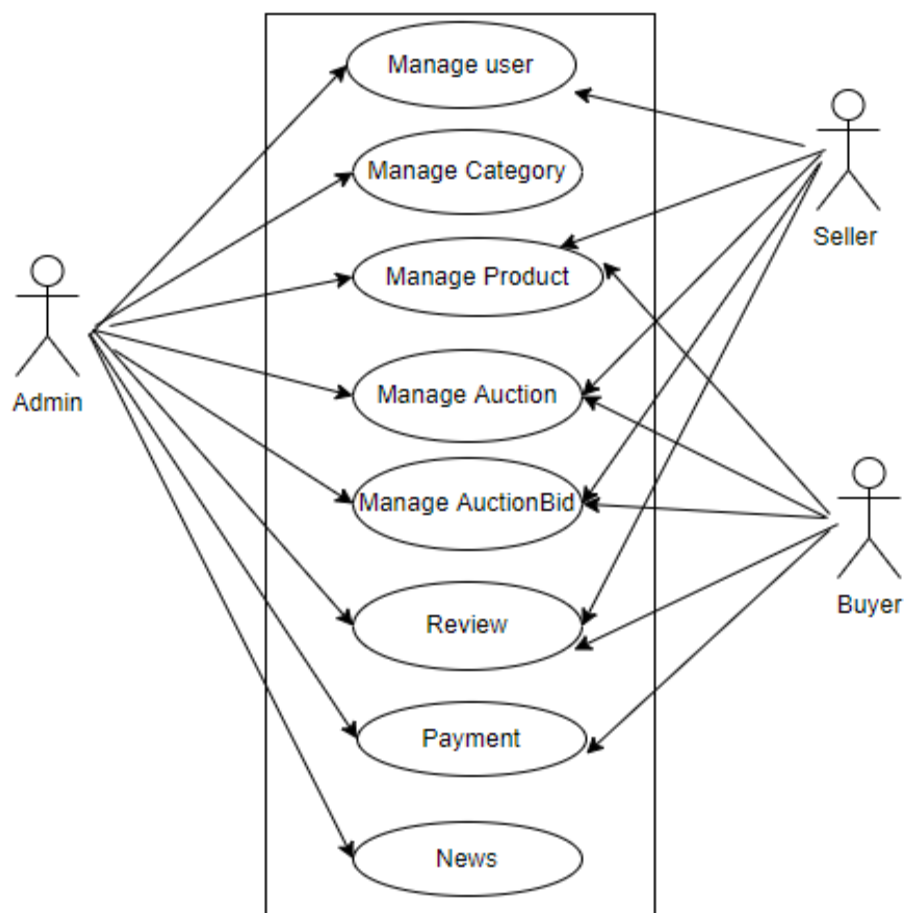
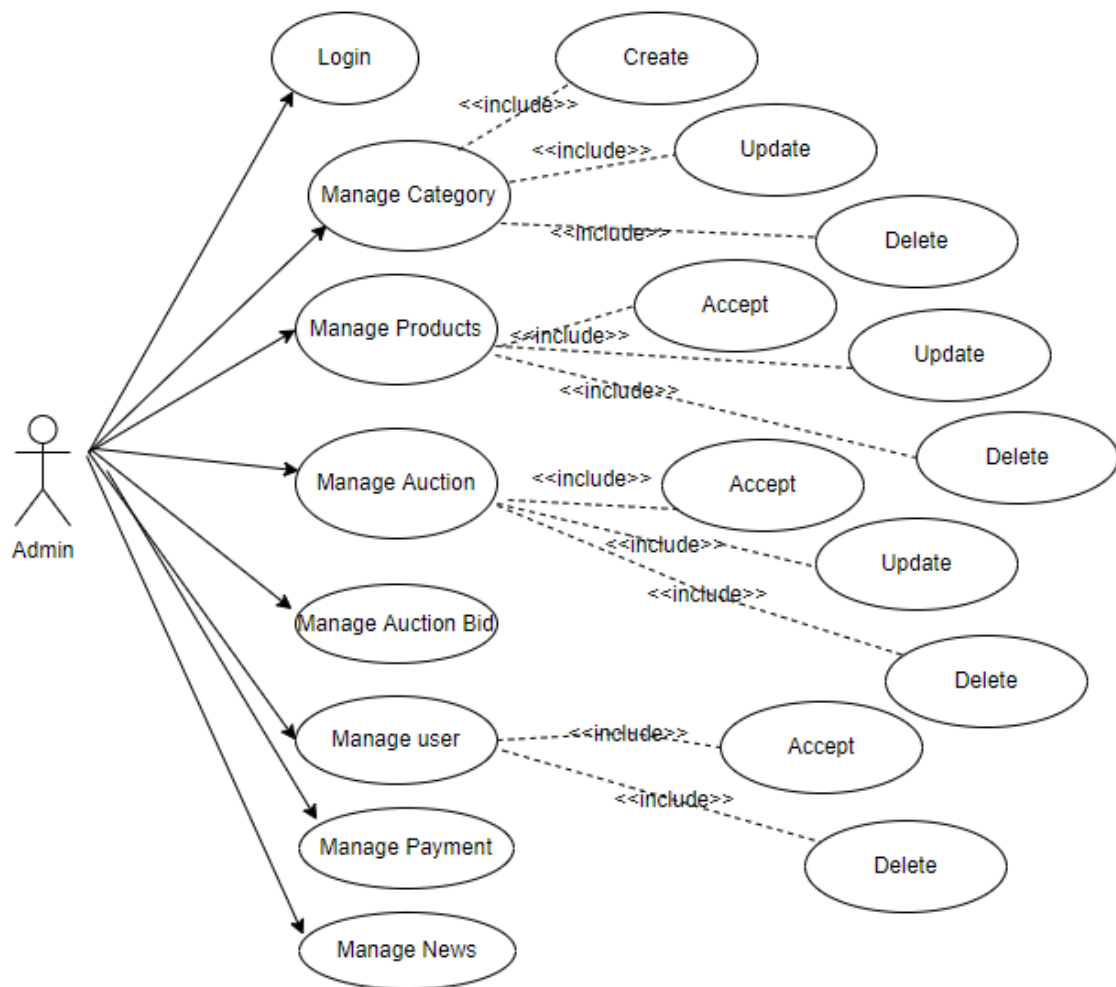


Figure 14: Bit price online.

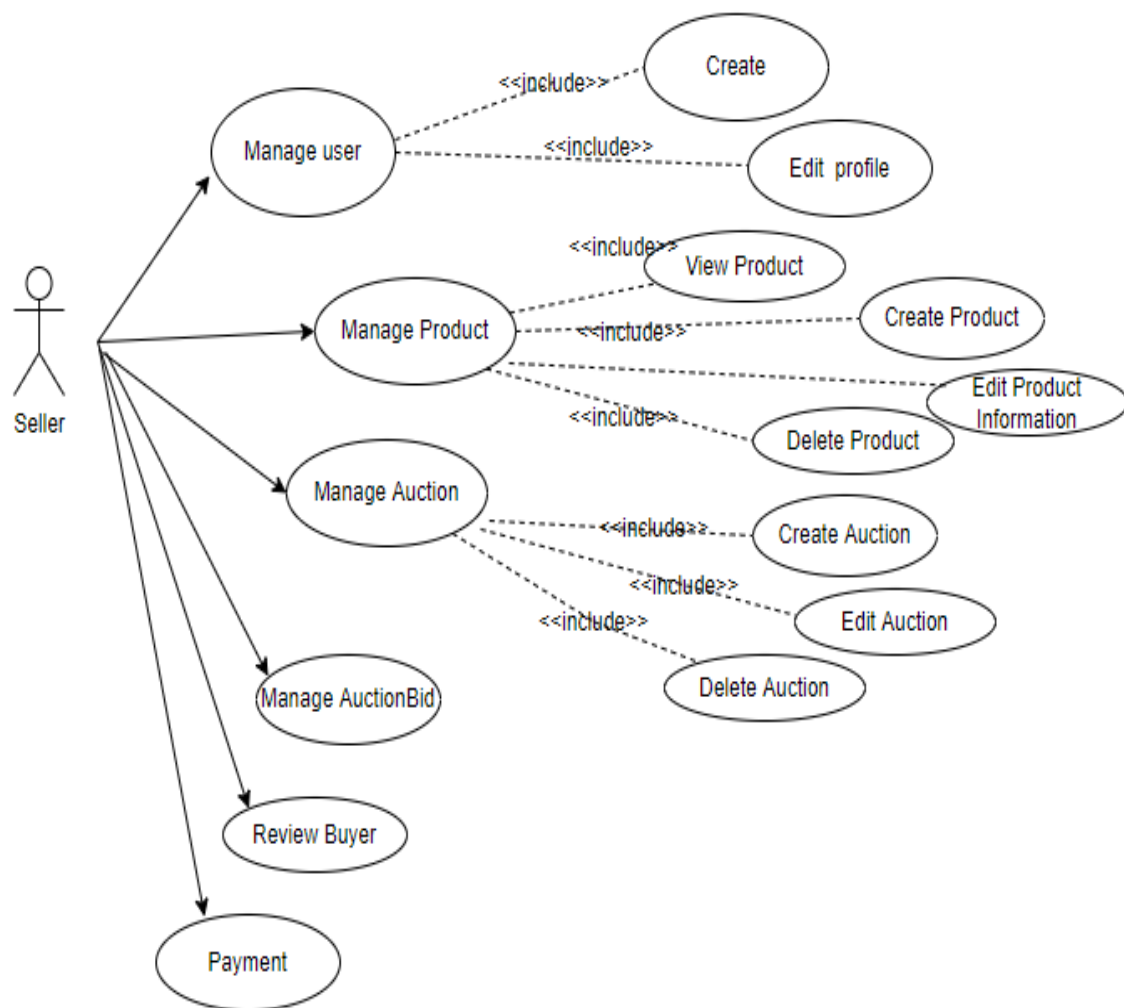
### III. Use Case Diagram



## 1. Admin Use Case

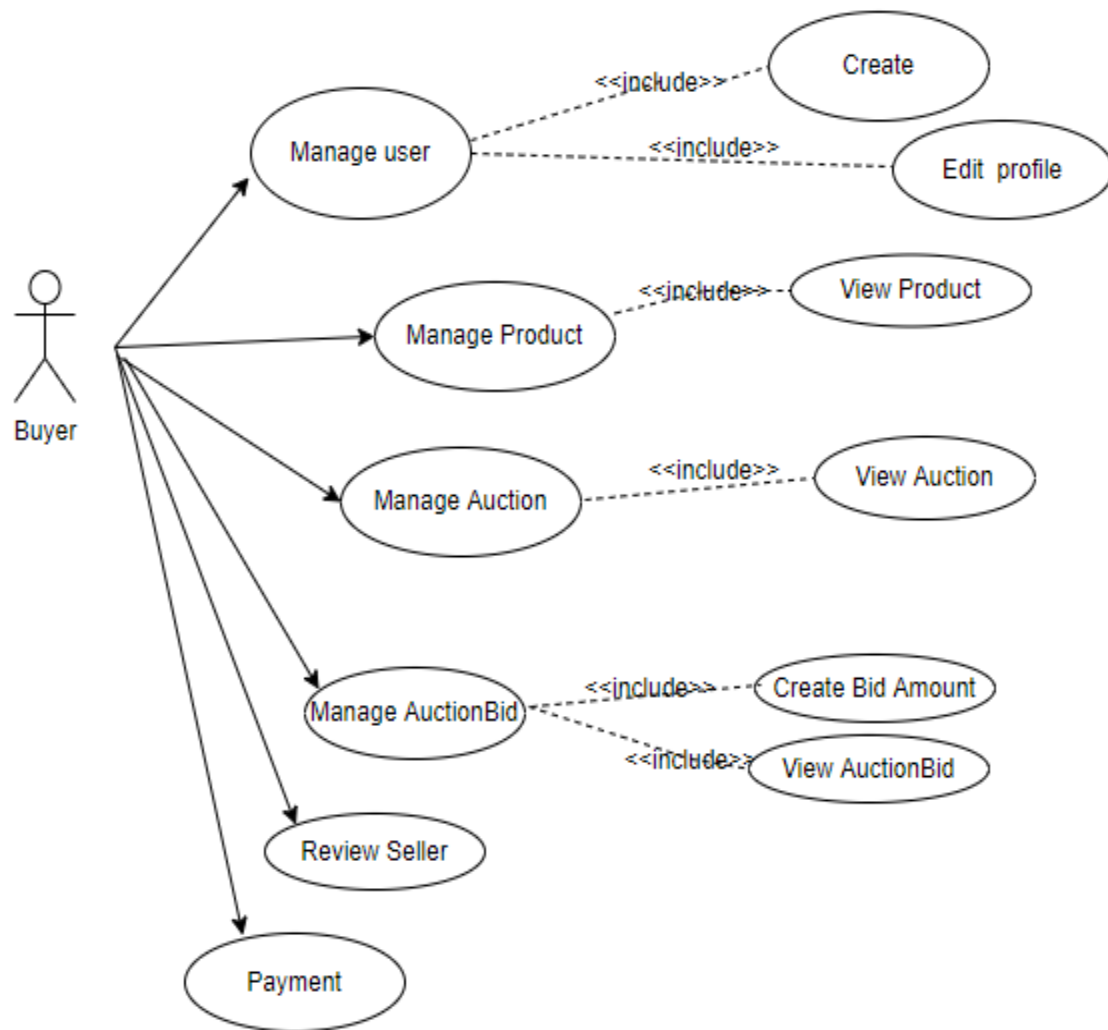


## 2. Seller Use Case



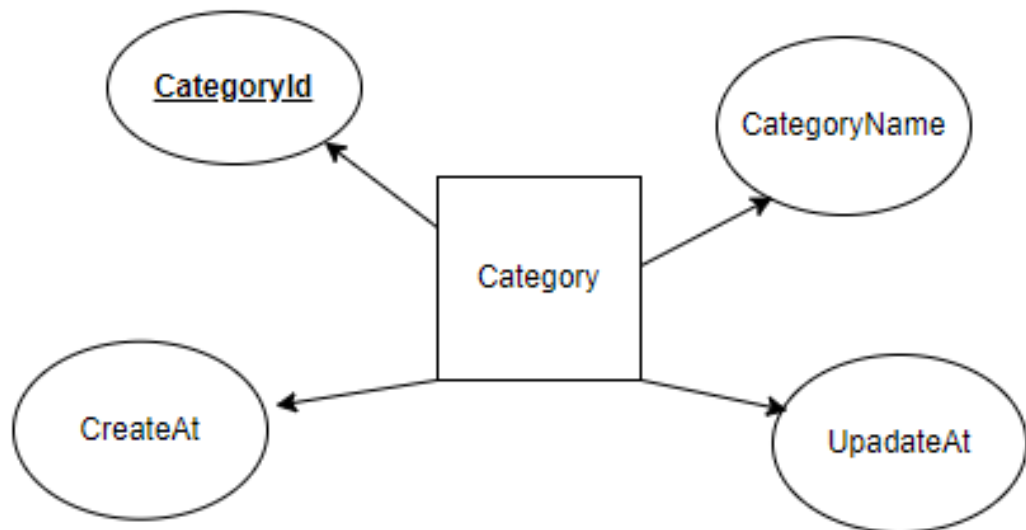


## 3. Buyer Use Case (Subscribed)

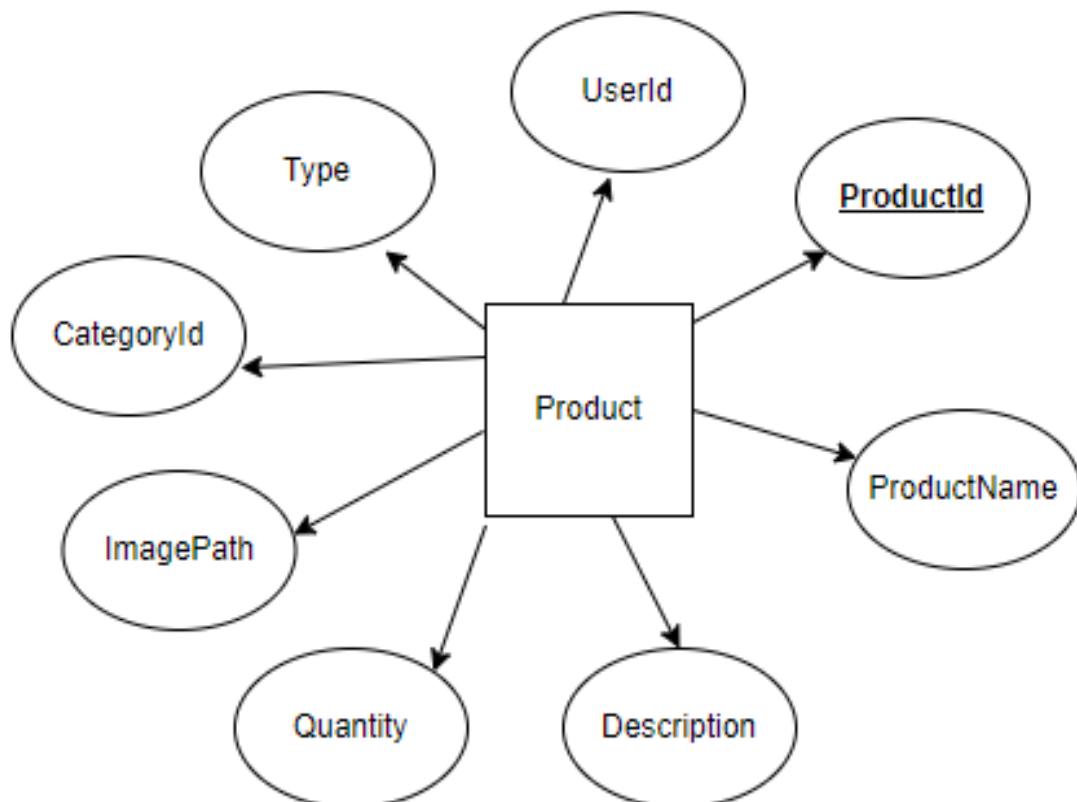


## IV. Entities & Attributes

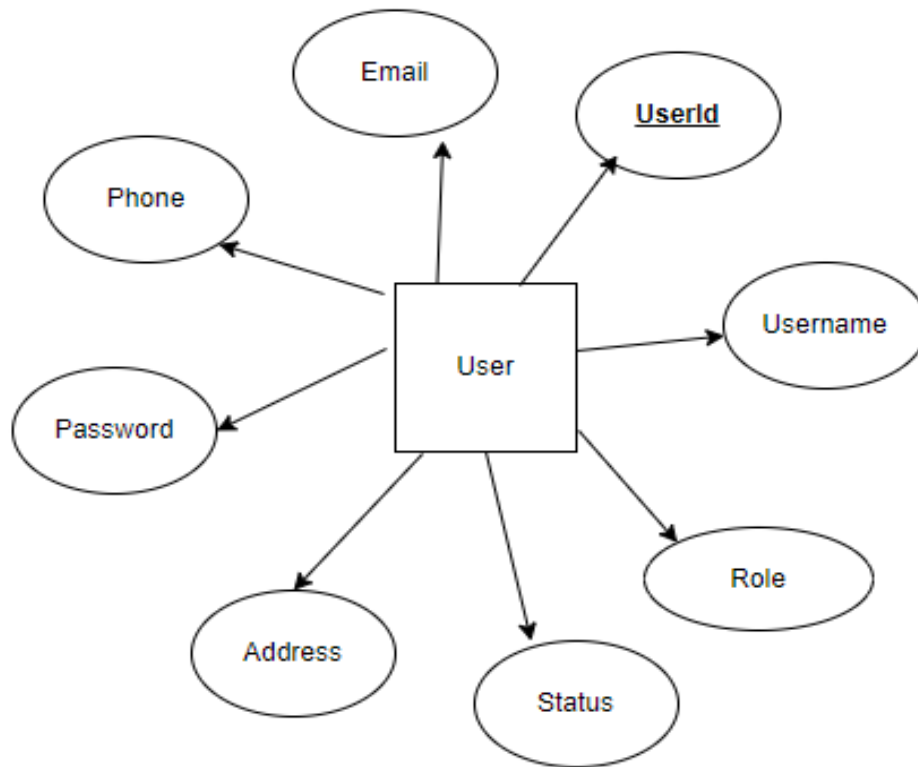
### 1. Category



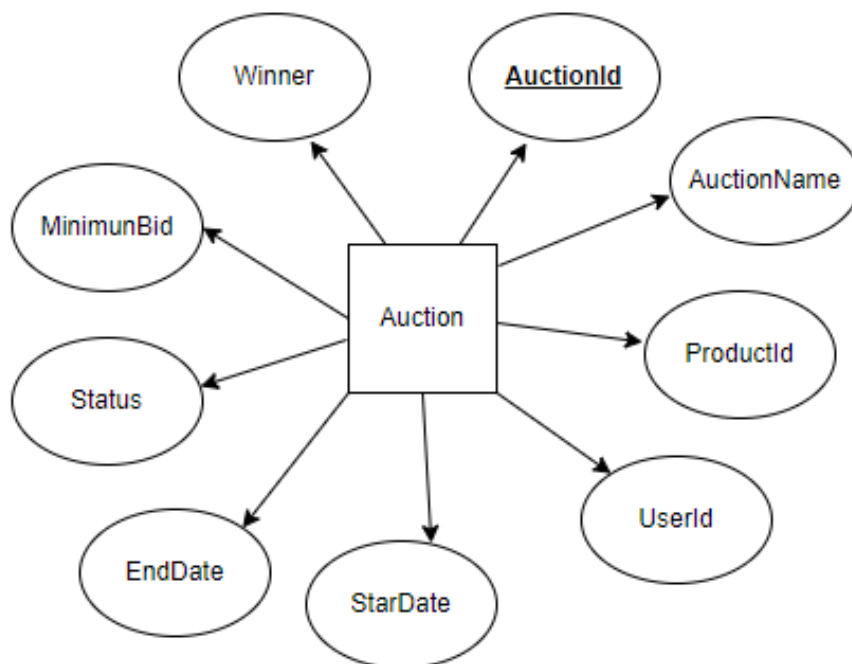
### 2. Products



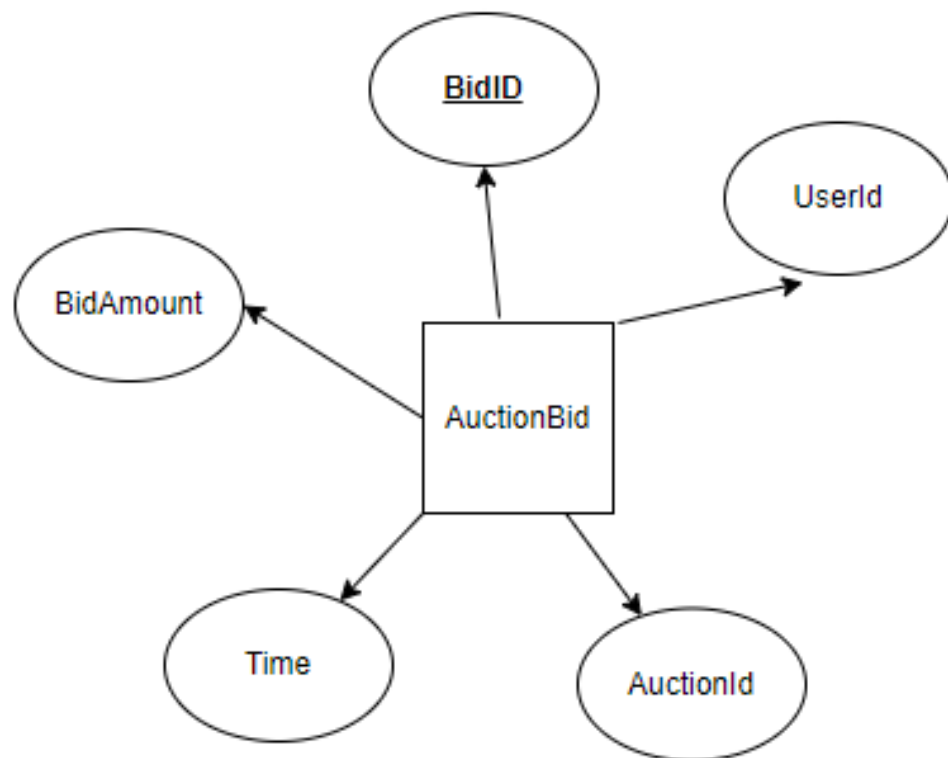
### 3. User



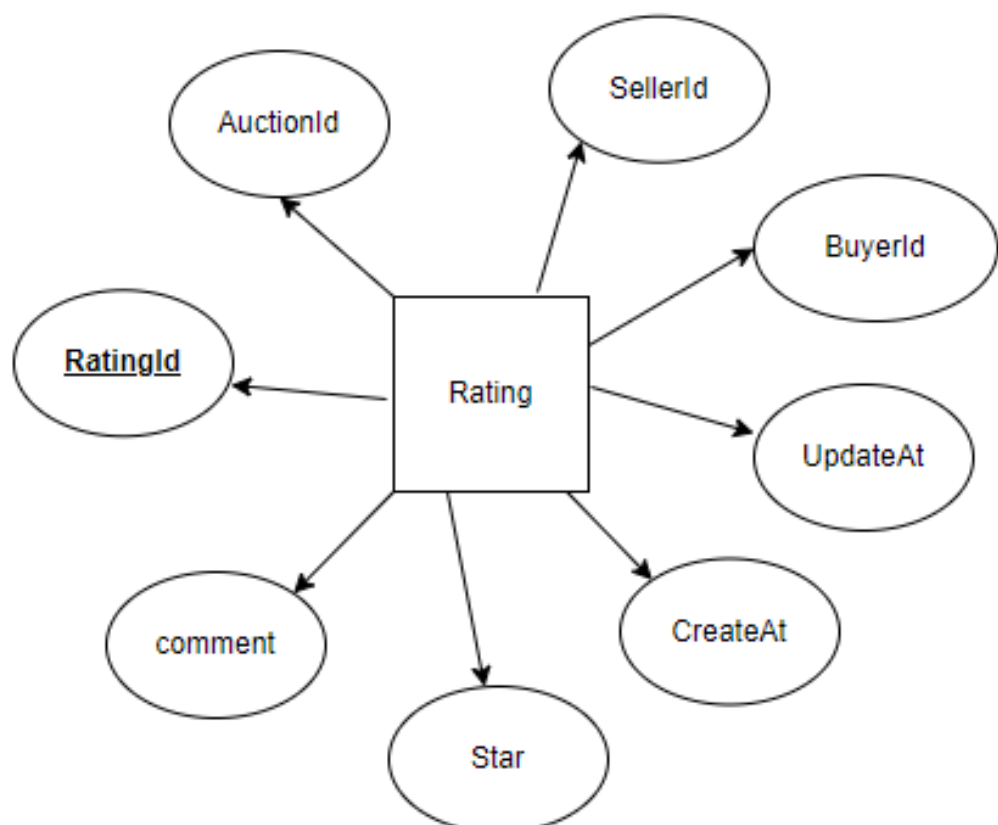
### 4. Auction



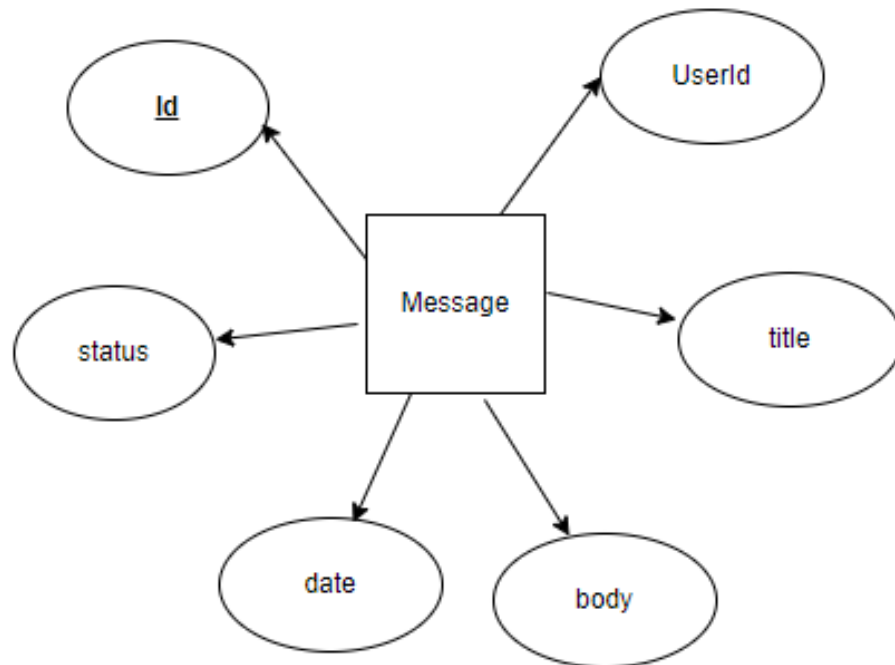
## 5. AuctionBid



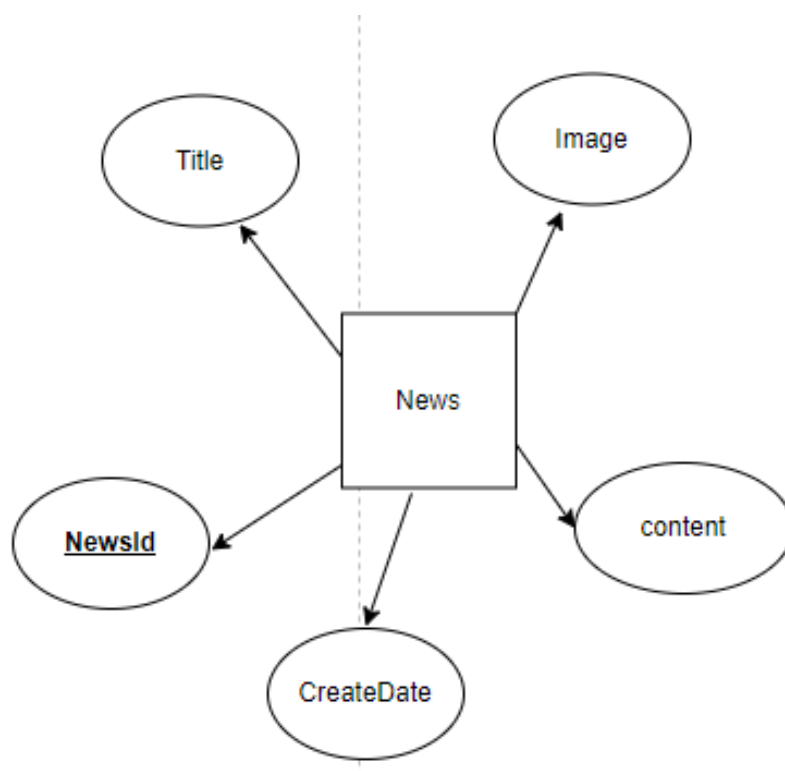
## 6. Rating



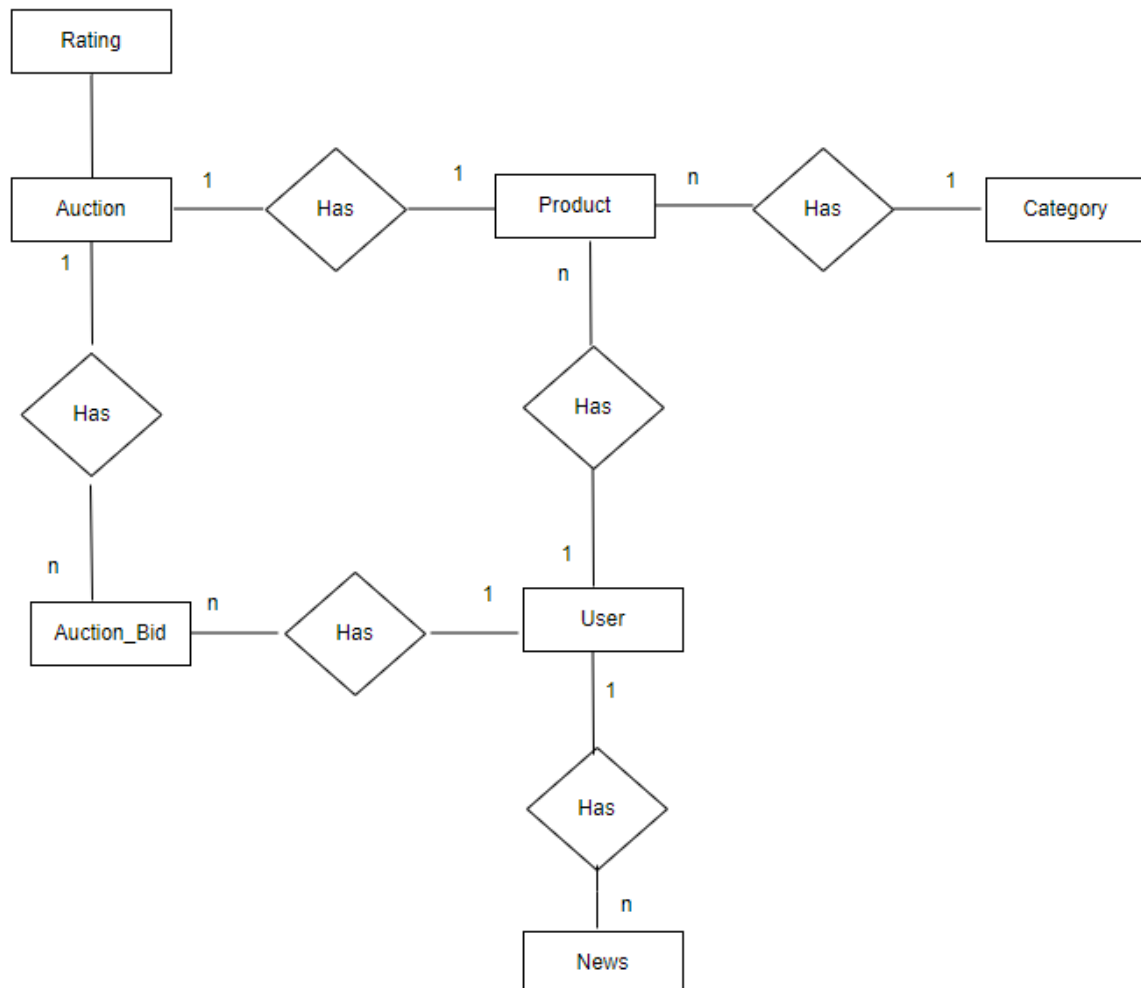
## 7. Message



## 8. News



## V. Entity Relationship Diagram (ERD Concept)



# TASK SHEET REVIEW 2

Project Ref. No.:  eP/Advertisement Portal Management System/01		Project Title:	Activity Plan Prepared By:	Date of Preparation of Activity Plan:			
Sr. No.	Task			Actual Start Date	Actual Days	Team Mate Names	Status
1	Architecture & Design of Project	Online Auction	ThinH	24/12/2021	2	All Member	Completed
2	Algorithms – Data Flowchart			24/12/2021	2	All Member	Completed
3	Use Case Diagram			24/12/2021	3	All Member	Completed
4	Entity and Properties			24/12/2021	2	All Member	Completed
5	ERD Concept			24/12/2021	3	All Member	Completed
6	Task sheet review			24/12/2021	1	ThinH	Completed

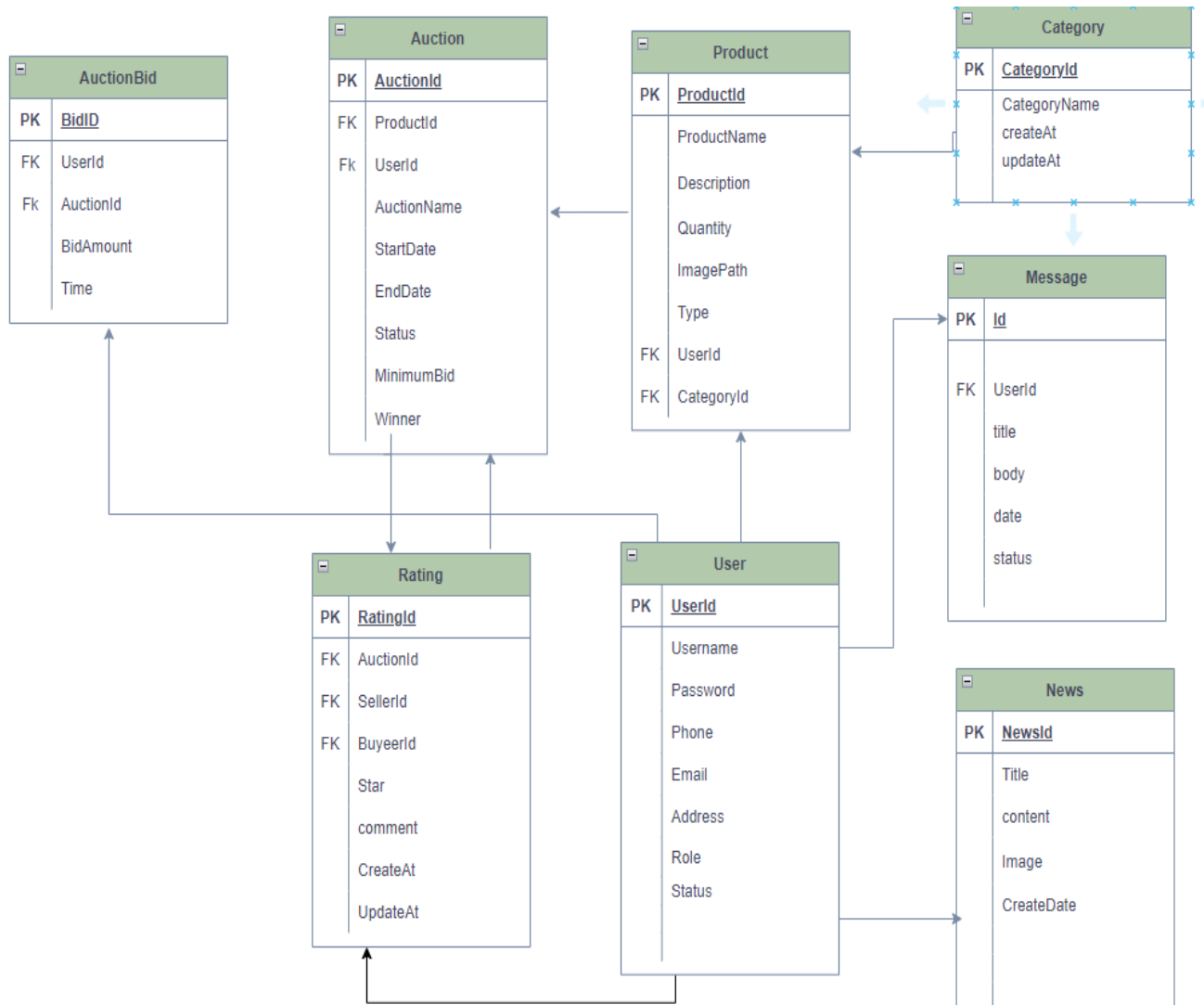
<b>Date: 27/12/2021</b>	
Signature of Instructor:	Signature of Team Leader:
<b>Mr. Tran Phuoc Sinh</b>	<b>Phan Phúc Thịnh</b>

# REVIEW 3

\



## I. Table Structure (ERD Physical)



## II. Database Design

### Category

Sr.No	Field Name	Data Type	Size	Null	DefaultValue	Key	Table-Field-Ref	Description
1	CategoryId	int	11	Not Allow	Identity(1,1)	Primary		
2	CategoryName	varchar	50	Not Allow				
3	CreateAt	datetime						
4	UpdateAt	datetime						

### Product

Sr.No	Field Name	Data Type	Size	Null	DefaultValue	Key	Table-Field-Ref	Description
1	ProductId	int	11	Not Allow	Identity(1,1)	Primary		
2	ProductName	varchar	150	Not Allow				
3	Description	text		Not Allow				
4	ImagePath	varchar	100					
5	UserId	int	11	Not Allow		Foreign	User	
6	CategoryId	int	11	Not Allow		Foreign	Category	
7	Status	bit						
8	Type	Varchar	50	Not Allow				

### Auction

Sr.No	Field Name	Data Type	Size	Null	DefaultValue	Key	Table-Field-Ref	Description
1	AuctionId	int	11	Not Allow	Identity(1,1)	Primary		
2	ProductName	varchar	255					
3	ProductId	int	11	Not Allow		Foreign	Product	
4	UserId	int	11	Not Allow		Foreign	User	
5	StartDate	datetime	100					
6	EndDate	datetime	11	Not Allow				
7	MinimumBid	int	11	Not Allow				
8	Winner	int	11			Foreign	User	
8	Status	bit						

## AuctionBid

Sr.No	Field Name	Data Type	Size	Null	DefaultValue	Key	Table-Field-Ref	Description
1	BidId	int	11	Not Allow	Identity(1,1)	Primary		
2	UserId	int	11	Not Allow		Foreign	User	
3	AuctionId	int	11	Not Allow		Foreign	Auction	
4	BidAmount	int		Not Allow				
5	Time	datetime						

## User

Sr.No	Field Name	Data Type	Size	Null	DefaultValue	Key	Table-Field-Ref	Description
1	UserId	int	11	Not Allow	Identity(1,1)	Primary		
2	Username	varchar	100	Not Allow				
4	Password	varchar	50	Not Allow				
5	Address	varchar	255	Not Allow				
6	Phone	varchar	11	Not Allow				
7	Email	varchar	255	Not Allow				
8	Type	int	11	Not Allow				
9	Status	bit		Not Allow				

## Rating

Sr.No	Field Name	Data Type	Size	Null	DefaultValue	Key	Table-Field-Ref	Description
1	RatingId	int	11	Not Allow	Identity(1,1)	primary		
2	AuctionId	int	11	Not Allow		foreign	Auction	
3	SellerId	int	11	Not Allow		foreign	User	
4	BuyerId	int	11	Not Allow		foreign	User	
5	Star	int	11					
6	comment	text						
7	CreateAt	Datetime						
8	UpdateAt	Datetime						

## Message

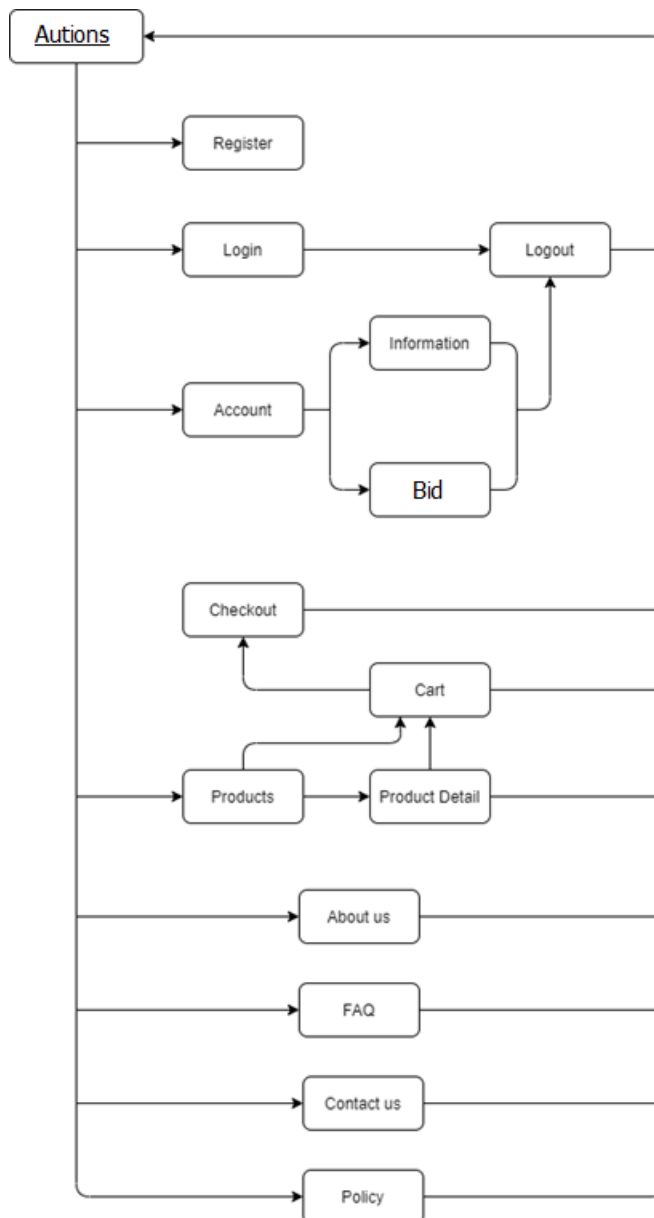
Sr.No	Field Name	Data Type	Size	Null	DefaultValue	Key	Table-Field-Ref	Description
1	MessageId	int	11	Not Allow		Primary		
2	UserId	int	11	Not Allow		Foreign	User	
3	Title	varchar	255	Not Allow				
4	Body	longtext		Not Allow				
5	date	datetime						
6	status	bit						

## News

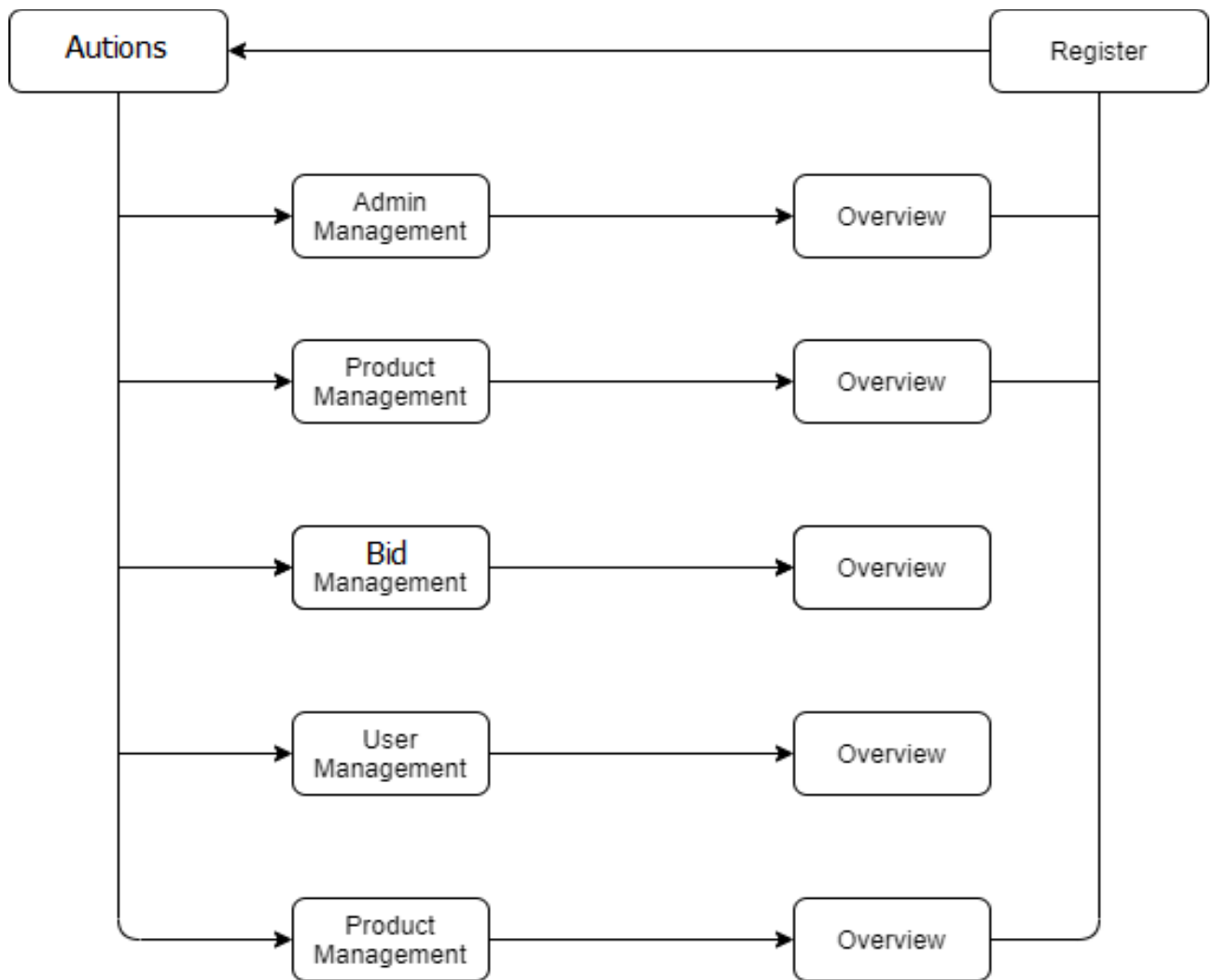
Sr.No	Field Name	Data Type	Size	Null	DefaultValue	Key	Table-Field-Ref	Description
1	NewsId	int	11	Not Allow		primary		
2	Title	varchar	255	Not Allow				
3	content	longtext		Not Allow				
4	Image	varchar	255	Not Allow				
6	CreateDate	Datetime						

### III. Site Map

#### 1 Customer's Site Map

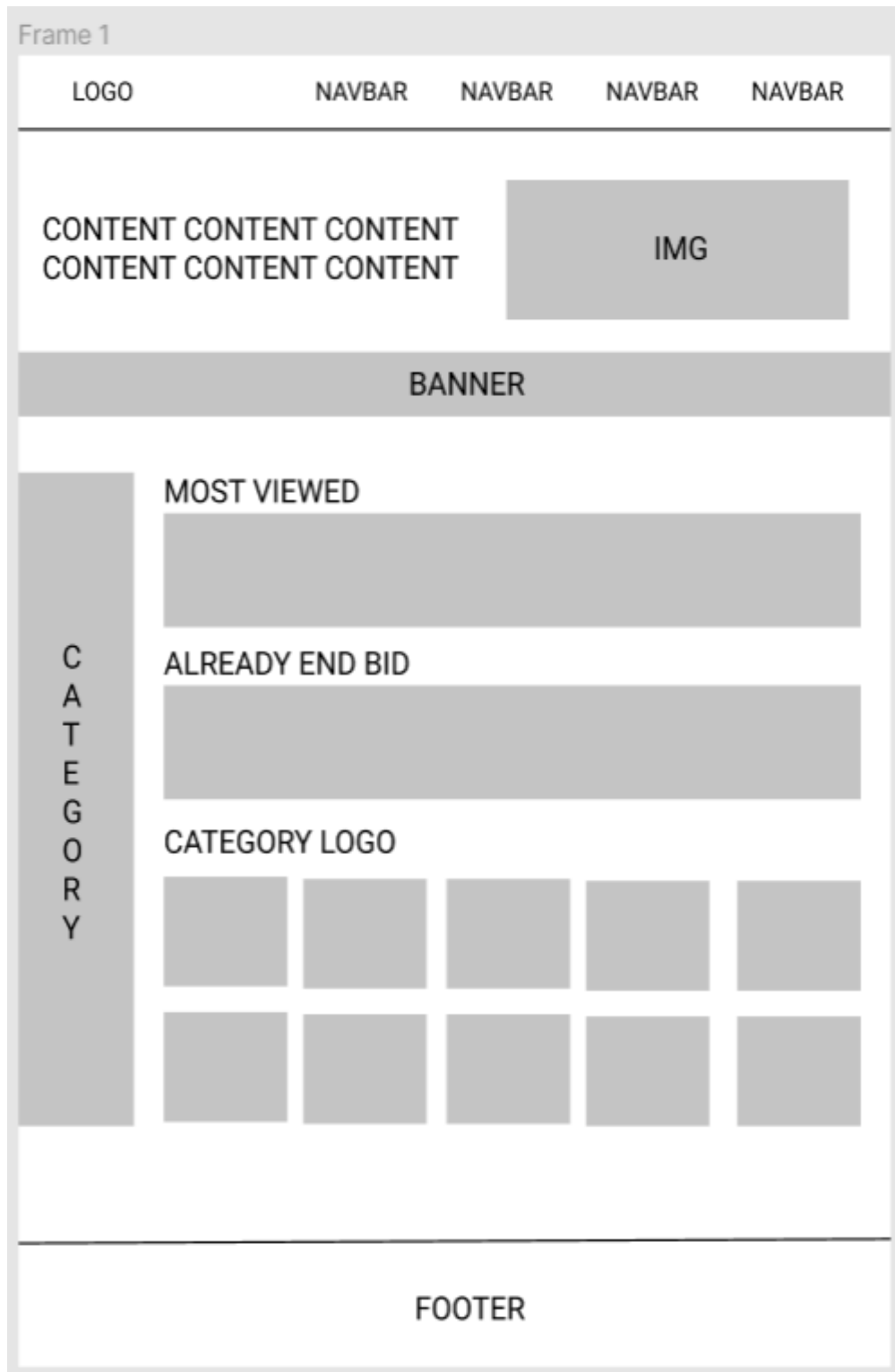


## 2. Admin's Site Map



## autions DESIGN template

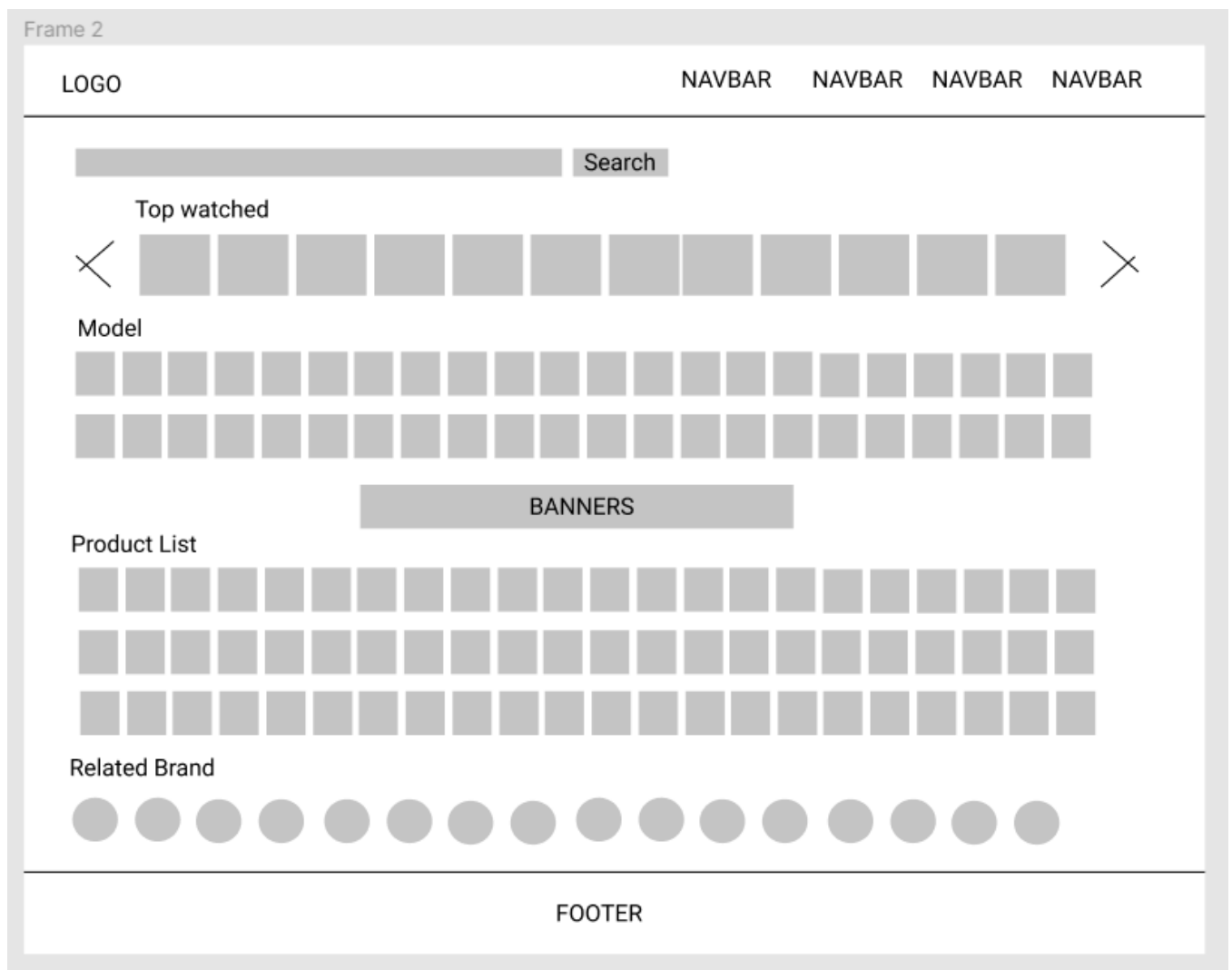
### 3. Homepage



No	Name	Type	Validation	Event	Description
1.	MOST VIEWED	Link		Click	Go to MOST VIEWED of page.
2.	ALREADY END BID	Link		Click	View product already end bid time.
3.	Logo	Link		Click	Go to homepage.
4.	Navigation bar (LOGIN)	Link		Click	Go to LOGIN page.
5.	Navigation bar (HELP)	Link		Click	Go to HELP page.
6.	Category <ul style="list-style-type: none"> <li>- Accessories</li> <li>- Cars</li> <li>- Fashion</li> <li>- Toys</li> </ul>	Link		Click	Show category of auctions.
7.	Category Logo	Link		Click	Allow user to view the product.
8.	Footer (information)	Link		Click	Go to information for Auctions company.
9.	Footer(News)	Link		Click	Show news of Auction.

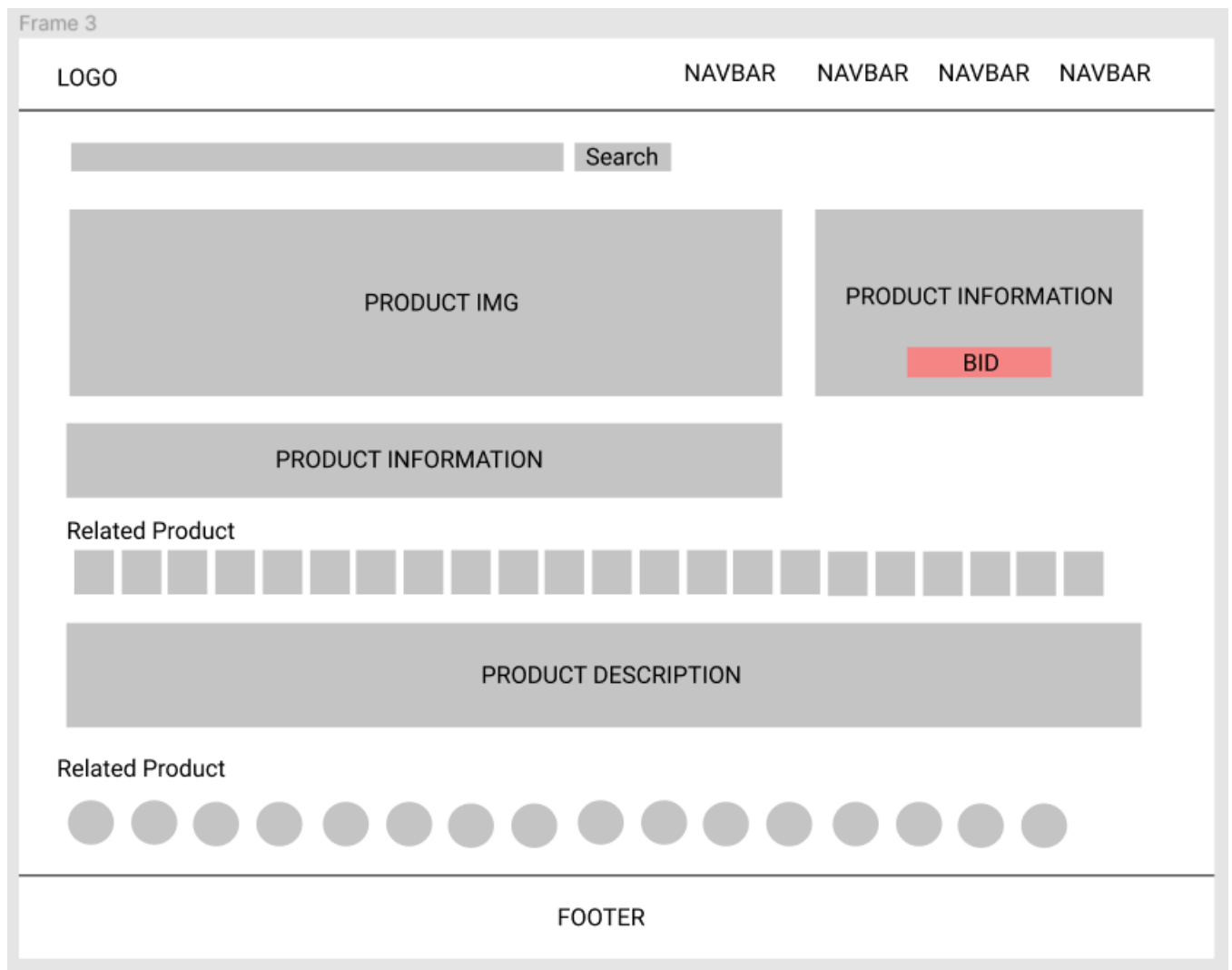


#### 4. PRODUCT LIST



No	Name	Type	Validation	Event	Description
1	Search Input	Text			Search product.
2	Top watched	Carousel			Show top watched products.
3	Model	Link		Click	Show list model of product
4	Banner	Link		Click	Advertisement Banner
5	Product List	List			Show list of bid product.
6	Related Brand	List			Show Related brand of product.

## 5. Product detail



No	Name	Type	Validation	Event	Description
1	Product Information	Text			Show information of product.
2	Image	Text			Show image product.
3	Product Information	Text			View more information such as quantity, quality (new, used)
4	Product Description	Text			Show description of product.
5	Related product	Image			Show relative product.

## 6. BID PROCESS

Frame 4

LOGO

NAVBAR

NAVBAR

NAVBAR

NAVBAR

---

Search

TITLE

PRODUCT IMG	PRODUCT NAME	PRICE	BIDERS	AUCTIONERS	TIME

Related Product

---

FOOTER

No	Name	Type	Validation	Event	Description
1	Bid process	Table			Show process of bidding
2	Table (IMG)	Image			Show img of bidding products.
3	Table (Product Name)	Text			Show quantity of selected products.
4	Table (Price)	Number			Show price of bidding products.
5	Table (Bidders)	Number			Show how many bidder is bidding.
6	Table	Text			Show auctioner of

	(Auctioner)				product.
7	Table (Time)	Datetime			Show end time of bid.

## 7. received the goods?

Frame 5

LOGO NAVBAR NAVBAR NAVBAR NAVBAR

Search

BID PROCESS

BID INFORMATION

RECEIVED THE GOODS

REPORT THE GOODS

WHAT'S WRONG WITH GOODS?

- THE PRODUCT HAS NOT BEEN DELIVERED?
- SOMETHING WRONG WITH PRODUCT?

REPORT

Related Product

FOOTER

No	Name	Type	Validation	Event	Description
1	Bid Information	Text			Show bid of information.
2	Received the goods?	Button		Click	Confirm the goods has been received.
3	Report the goods	Form			Report the goods if some problems with product.
4	Related Product	List			Show list of related product.

## 8. Customer

### 8.1 Customer Login & Register

Frame 6

LOGO

NAVBAR NAVBAR NAVBAR NAVBAR

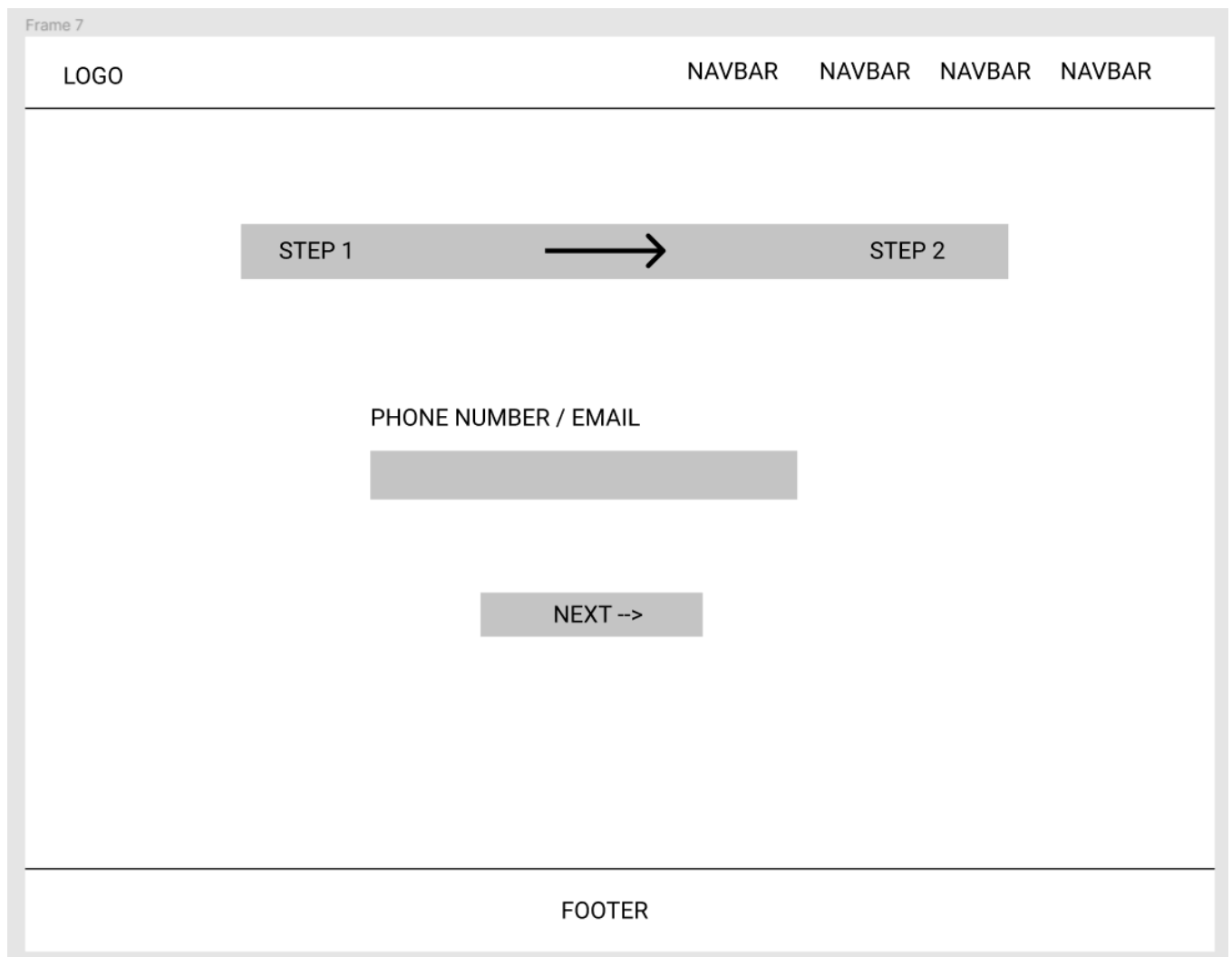
IMG

Email :

Password :

LOGIN

FOOTER



Frame 7

LOGO NAVBAR NAVBAR NAVBAR NAVBAR

---

STEP 1 → STEP 2

NAME

PHONE

ADDRESS

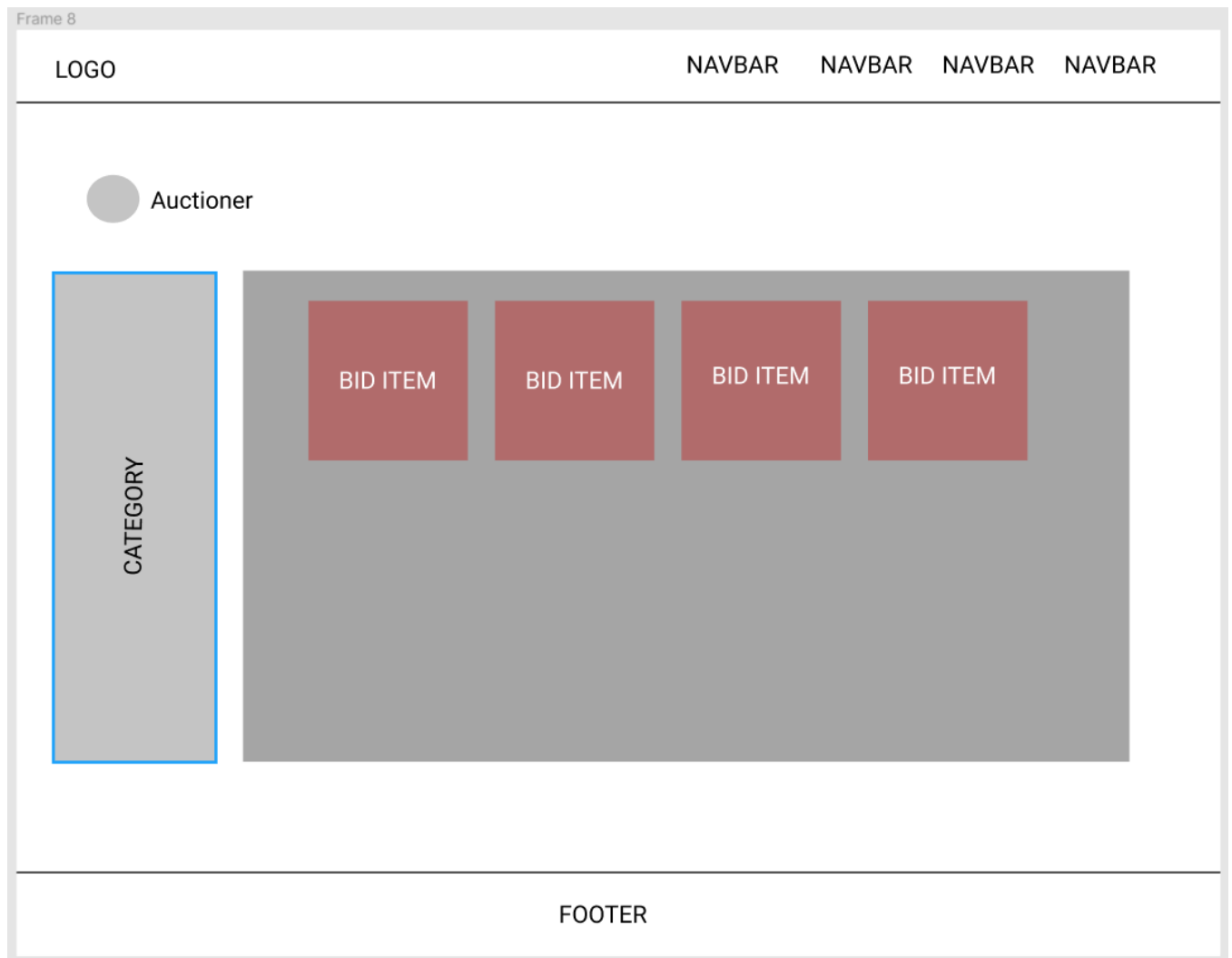
NEXT -->

---

FOOTER

No.	Name	Type	Validation	Event	Description
1	Name	Text	Not null, not number		Customer/Admin's name
3	Address	Null	Not null, must be address		Customer/Admin's address
3	Phone Number	Null	Not null, must be phone number		Customer's phone

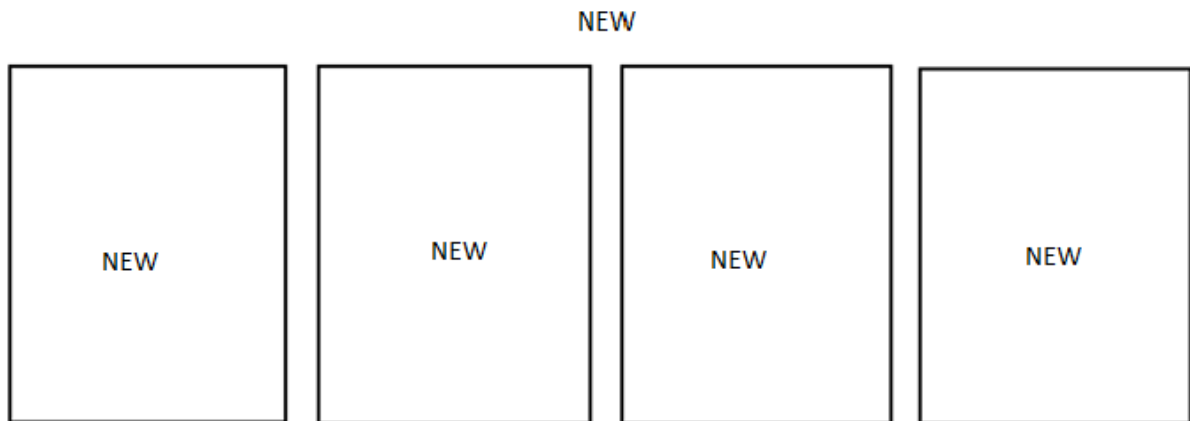
## 8.2 Contact auctioners



No.	Name	Type	Validation	Event	Description
1	Auctioner	Object			Auctioner's name
2	Category				Category product of auctioner
3	Bid Item	Image			Auctioner bid item



### 8.3 BLOGS



### 8.4 Purchase history

Frame 10

LOGO

NAVBAR

NAVBAR

NAVBAR

NAVBAR

SEARCH BID ID...

OK

BID PROCESS

BID INFORMATION

RECEIVED THE GOODS

REPORT THE GOODS

WHAT'S WRONG WITH GOODS?

THE PRODUCT HAS NOT BEEN DELIVERED?

SOMETHING WRONG WITH PRODUCT?

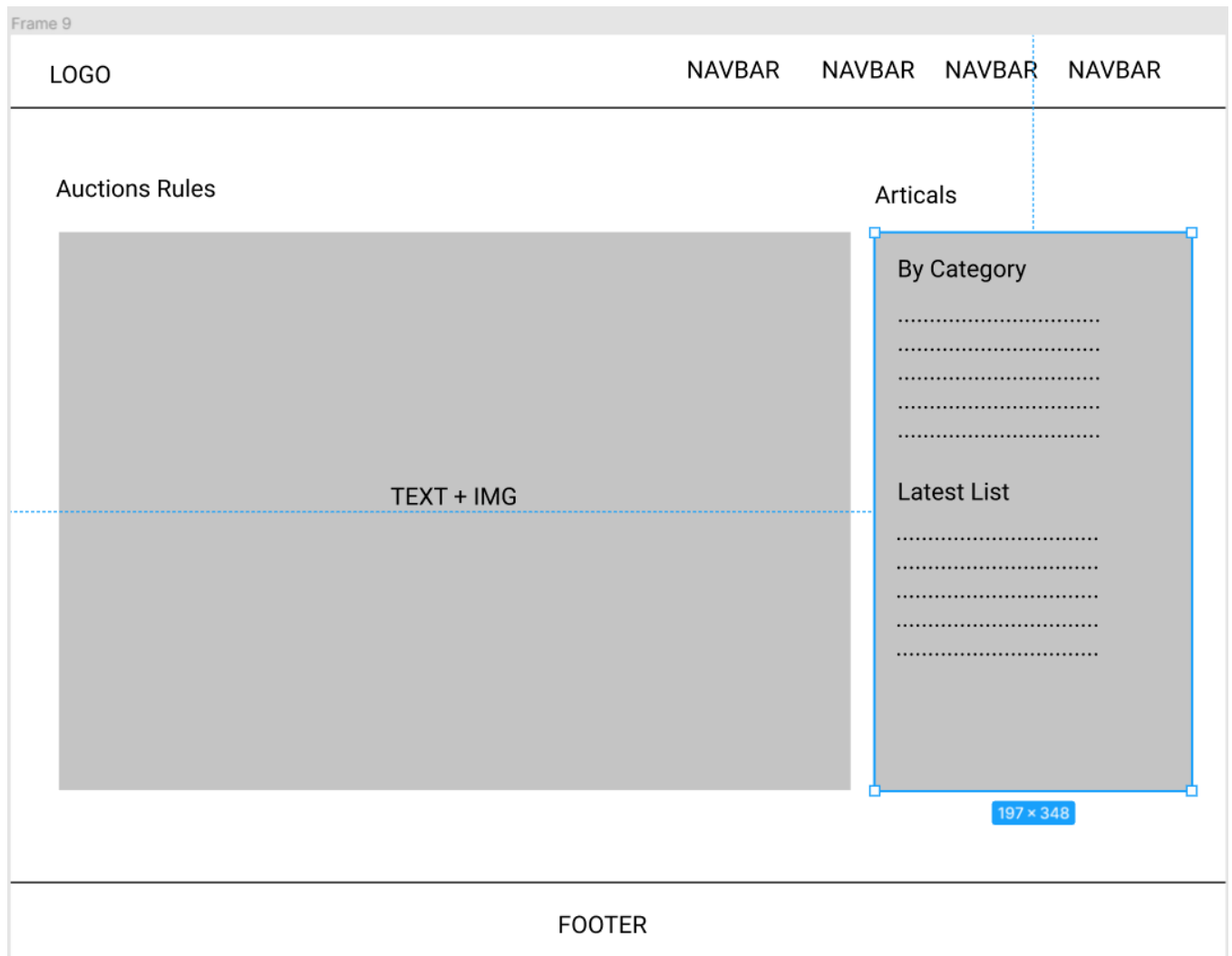
REPORT

FOOTER

No.	Name	Type	Validation	Event	Description
1	Search Bid	NULL	Not null must be code order.		Search bid information by code.
2	Bid Process				Show process of

					bidding
3	Report the goods				Complaint about the goods, condition, have been shipped or not?

## 8.5 Store rules



## 8.6 Admin manager

Online Auction
Admin
Admin Manager
User Manager
Product Manager
News Manager

Admin

Id	Username	Pass	Phone	Fullname	Email	
1	ttai8543	123	093325147	Quoc Tai	ai@gmail.com	<input type="button" value="Up"/> <input type="button" value="De"/>

No	Name	Validation	Event	Description
1	id	Not null, must be number.		Admin's id.
2	username	Not null, force matches in the database.		Admin's account name.
3	password	Not null, force matches in the database.		Admin's password.
4	fullname	Not null, not number.		Admin's name.
5	phone	Not null, must be phone number.		Admin's phone.
6	email	Not null, must be email (have .com and @).		Admin's email.
7	update		Click	Link to update admin form.
8	delete		Click	Link to delete admin form.

## 8.7 User manager

Id	Email	Fullname	Status	
1	tAI@gmail.com	Tran Hoang Quoc tAI	True	<a href="#">Details</a> <a href="#">Delete</a>

No	Name	Validation	Event	Description
1	id	Not null, must be number.		Customer's id.
2	fullname	Not null, not number.		Customer's name.
3	username	Not null, force matches in the database.		Customer's account name.
4	Status	Not null, force matches in the database.		Customer's status.
5	Detail		Click	Link to detail customer form.
6	Delete		Click	Link to delete customer form.

## 8.8 Product Manager

Id	Name	Price	Quantity	Description	Rare	Status	Category	
A101	ABC	1111	20	aaaaa	aaaaa	aaaaa	T101	<input type="button" value="Details"/> <input type="button" value="Delete"/>

No	Name	Validation	Event	Description
1	id	Not null, must be number.		Product's id.
2	category	Not null, force matches in the database.		Product's category.
3	name	Not null, force matches in the database.		Product's name.
4	price	Not null, must be number.		Product's price.
5	status	Not null, force matches in the database.		Product's status.
6	rare	Not null, force matches in the database.		Product's rare.
7	quantity	Not null, must be number., force matches in the database.		Product's quantity.
8	Description	Not null, force matches in the database.		Product's description.
9	Detail		Click	Link to detail product form.
10	Delete		Click	Link to delete product form.

## 8.9 News

Online Auction	News										
Admin	<div>Create</div> <table border="1"> <thead> <tr> <th>Id</th> <th>Body</th> <th>Name</th> <th>Images</th> <th></th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td> <div>Update</div> <div>Delete</div> <div>Details</div> </td> </tr> </tbody> </table>	Id	Body	Name	Images						<div>Update</div> <div>Delete</div> <div>Details</div>
Id	Body	Name	Images								
				<div>Update</div> <div>Delete</div> <div>Details</div>							
Admin Manager											
News Manager											
Product Manager											
User Manager											

No	Name	Validation	Event	Description
1	id	Not null, must be number.		News's id.
2	body	Not null, force matches in the database.		News's title.
3	name	Not null, force matches in the database.		News's status.
8	images	Not null, force matches in the database.		News's images.
4	Create		Click	Link to create news form.
5	Detail		Click	Link to detail news form.
6	Update		Click	Link to update news form.
7	Delete		Click	Link to delete news form.

## TASK SHEET REVIEW 3

Project Ref. No.:		Project Title:	Activity Plan Prepared By:	Date of Preparation of Activity Plan:			
Sr. No.	Task			Actual Start Date	Actual Days	Team Mate Names	Status
1	Table Structure (ERD Physical)	Online Auction	Thinh	26/01/2021	4	All Member	Completed
2	Database Design			26/01/2021	4	All Member	Completed
3	Site Map			26/01/2021	1	All Member	Completed
4	GUI Design			26/01/2021	1	All Member	Completed
	<b>Admin Interface</b>						
5	Login, Logout for Admin Interface			26/01/2021	21	All Member	
6	Manage Profile Admin			26/01/2021	21	All Member	
7	Manage User			26/01/2021	21	All Member	
8	Manage News			26/01/2021	21	All Member	
9	Manage Product			26/01/2021	21	All Member	
10	Mange About Us Page,Contact Us			26/01/2021	21	All Member	

11	Manage History Bid			26/01/2021	21	All Member	
12	Manage Bank Account of Admin			26/01/2021	21	All Member	
36	Task sheet review				1		Completed

<b>Date: 11/05/2020</b>	
Signature of Instructor:          <b>Mr. Tran Phuoc Sinh</b>	Signature of Team Leader:          <b>To Dao Viet Hoang</b>