

### SHRI SHAMBHUBHAI V. PATEL COLLEGE OF COMPUTER SCIENCE & BUSINESS MANAGEMENT

Project

On

# "Online Auction Management System"

As a partial fulfilment

For the degree of

#### **BACHELOR OF COMPUTER APPLICATION**

6<sup>th</sup> semester

**Guided By:** Prof. Piyush Arora

2024-25

**Presented by:** Group 25

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## Introduction

An **Online Auction Management System** is a web-based platform designed to facilitate the process of buying and selling goods through auctions. It enables sellers to list items for bidding, while buyers can place bids in real-time, competing for products until the auction closes. The system automates essential functions such as user registration, bid tracking, payment processing, and notification alerts to ensure a seamless experience.

This system enhances accessibility, allowing users from different locations to participate in auctions without physical presence. It ensures transparency through real-time bidding updates and secure transactions.

Advanced features like automated bidding, reserve prices, and analytics further improve efficiency and user engagement. By digitizing the traditional auction process, this system provides a convenient, fair, and efficient marketplace for buyers and sellers alike.

## Project Profile

1	Project Title	Online Auction management system
2	Developed By	Arshal Nakrani Arshit Kyada Dharmik Ghrvariya
3	Guidence By	
4	Back End	Php,Xampp , MySql
5	Front End	HTML,CSS,BOOTSTRAP, ,JAVASCRIPT
6	Operating System	Microsoft Windows
7	College Name	S.V Patel

## System Environment

Hardware Software

RAM	4 GB
Any	20 GB & Above
Processor	Intel core i5

Platform	Microsoft Windows 10
Browser	Google Chrome
Front End	Html ,Css,Javascriopt
Back End	PHP ,MYSQL
Server	XAMPP
Other Tools	Edraw Max

### Modules

#### **User Module**

#### **Admin Module**

### **User(Buyer/Seller)**

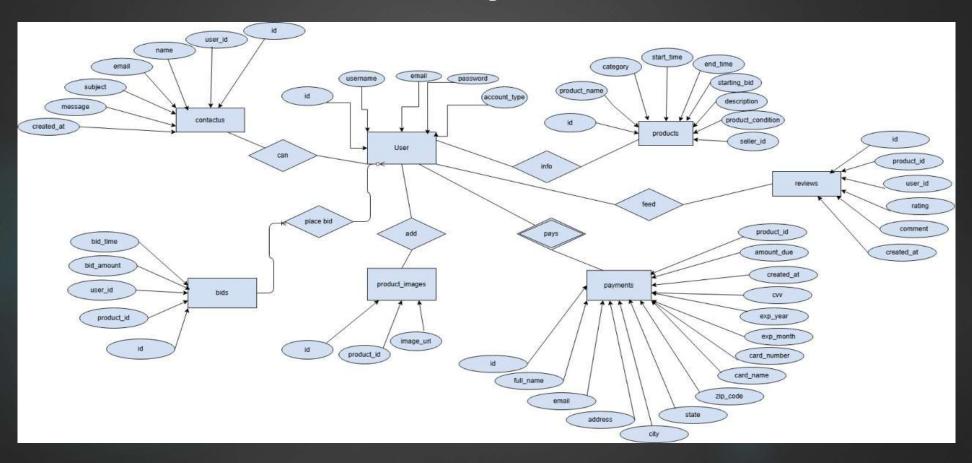
- Registration & Authentication Sign-up, login, rolebased access
- Auction Management (Seller) Create, edit, manage listings
- Bidding System (Buyer) Place bids
- Payments & Transactions Secure payments,
- Feedback & Ratings User reviews and credibility system

#### Admin

- User Management Approve, monitor, ban users
- Auction Oversight Approve/reject listings, monitor fraud
- Transactions & Payments Oversee payments, disputes, commissions
- Reports & Analytics Track sales, revenue, user activity
- **Dispute Resolution** Handle complaints and fraudulent activities

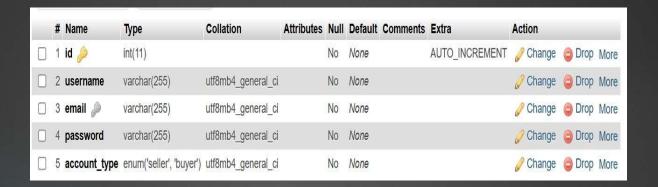
## System Requirement Specification

### ER Diagram:



### **Data Dictionary:**

### User:-



### **Products\_Images:-**

#	Name	Туре	Collation	Attributes	Null	Default	Comments	Extra	Action		
1	id 🔑	int(11)			No	None		AUTO_INCREMENT	Change	Drop	More
2	product_id 🔑	int(11)			Yes	NULL			Change	Drop	More
3	image_url	varchar(255)	utf8mb4_general_ci		Yes	NULL			Change	Drop	More

### **Products:-**

	# Name	Туре	Collation	Attributes	Null	Default	Comments	Extra	Action		
	1 id 🔑	int(11)			No	None		AUTO_INCREMENT	Change	Drop	More
	2 product_name	varchar(255)	utf8mb4_general_ci		No	None			Change	Drop	More
	3 category	varchar(255)	utf8mb4_general_ci		No	None			Change	Drop	More
0	4 start_time	datetime			No	None			Change	Drop	More
	5 end_time	datetime			No	None			Change	Drop	More
	6 starting_bid	decimal(10,2)			No	None			Change	Drop	More
	7 description	longtext	utf8mb4_general_ci		No	None			Change	Drop	More
	8 product_condition	enum('new', 'used', 'refurbished')	utf8mb4_general_ci		No	None			Change	Drop	More
	9 seller_id 🔑	int(11)			No	None			Change	Drop	More

### Bid:-

#	Name	Туре	Collation	Attributes	Null	Default	Comments	Extra	Action		
1	id 🔑	int(11)			No	None		AUTO_INCREMENT	Change	Drop	More
2	product_id 🔑	int(11)			No	None			Change	Drop	More
3	user_id 🔎	int(11)			No	None			Change	Drop	More
4	bid_amount	decimal(10,2)			No	None			Change	Drop	More
5	bid_time	timestamp			No	current_timestamp()			Change	Drop	More

## Contact Us:-

#	Name	Туре	Collation	Attributes	Null	Default	Comments	Extra	Action		
1	id 🔑	int(11)			No	None		AUTO_INCREMENT	Change	Drop	More
2	product_id 🔑	int(11)			No	None			Change	Drop	More
3	user_id 🔎	int(11)			No	None			Change	Drop	More
4	rating	int(11)			No	None			Change	Drop	More
5	comment	text	utf8mb4_general_ci		Yes	NULL			Change	Drop	More
6	created_at	timestamp			No	current_timestamp()			Change	Drop	More

### Payments:-

	#	Name	Туре	Collation	Attributes	Null	Default	Comments	Extra	Action		
	1	id 🔑	int(11)			No	None		AUTO_INCREMENT	Change	Drop	More
	2	full_name	varchar(100)	utf8mb4_general_ci		No	None			Change	Drop	More
0	3	email	varchar(100)	utf8mb4_general_ci		No	None			Change	Drop	More
0	4	address	varchar(255)	utf8mb4_general_ci		No	None			Change	Drop	More
	5	city	varchar(100)	utf8mb4_general_ci		No	None			Change	Drop	More
	6	state	varchar(100)	utf8mb4_general_ci		No	None			Change	Drop	More
	7	zip_code	varchar(20)	utf8mb4_general_ci		No	None			Change	Drop	More
0	8	card_name	varchar(100)	utf8mb4_general_ci		No	None			Change	Drop	More
	9	card_number	varchar(20)	utf8mb4_general_ci		No	None			Change	Drop	More
	10	exp_month	varchar(20)	utf8mb4_general_ci		No	None			Change	Drop	More
0	11	exp_year	int(11)			No	None			Change	Drop	More
	12	CVV	varchar(4)	utf8mb4_general_ci		No	None			Change	Drop	More
	13	created_at	timestamp			No	current_timestamp()			Change	Drop	More
	14	amount_due	decimal(10,2)			Yes	NULL			Change	Drop	More
	15	product_id	int(11)			No	None			Change	Drop	More

### **Reviews:-**

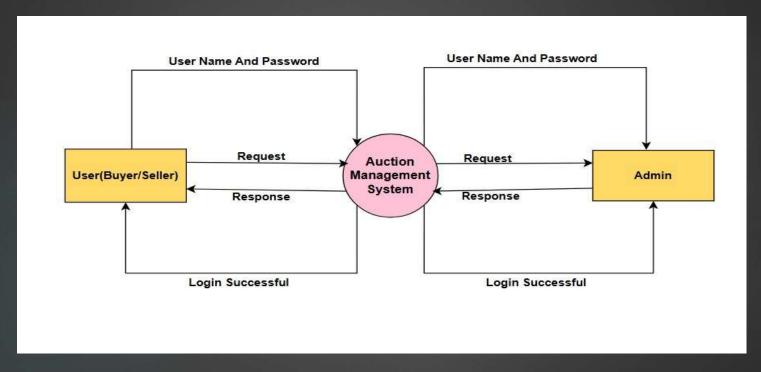
#	Name	Туре	Collation	Attributes	Null	Default	Comments	Extra	Action		
1	id 🔑	int(11)			No	None		AUTO_INCREMENT	Change	Drop	More
2	product_id 🤌	int(11)			No	None			Change	Drop	More
3	user_id 🔑	int(11)			No	None			Change	Drop	More
4	rating	int(11)			No	None			Change	Drop	More
5	comment	text	utf8mb4_general_ci		Yes	NULL			Change	Drop	More
6	created_at	timestamp			No	current_timestamp()			Change	Drop	More

### Withdrawals:-

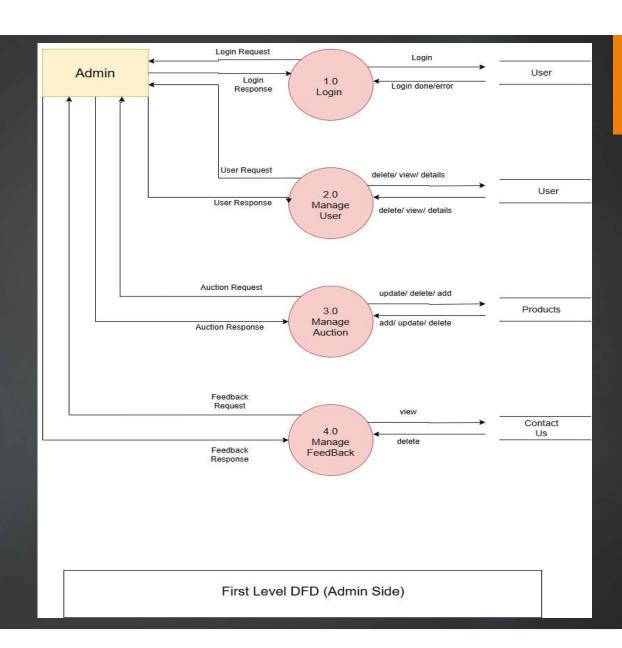
# Name	Туре	Collation	Attributes	Null	Default	Comments	Extra	Action	
1 id 🔑	int(11)			No	None		AUTO_INCREMENT	Change	Drop More
2 seller_id 🔑	int(11)			No	None			Change	Drop More
3 amount	decimal(10,2)			No	None			Change	Drop More
4 withdrawal_date	timestamp			No	current_timestamp()			Change	Drop More

## Data Flow Diagram

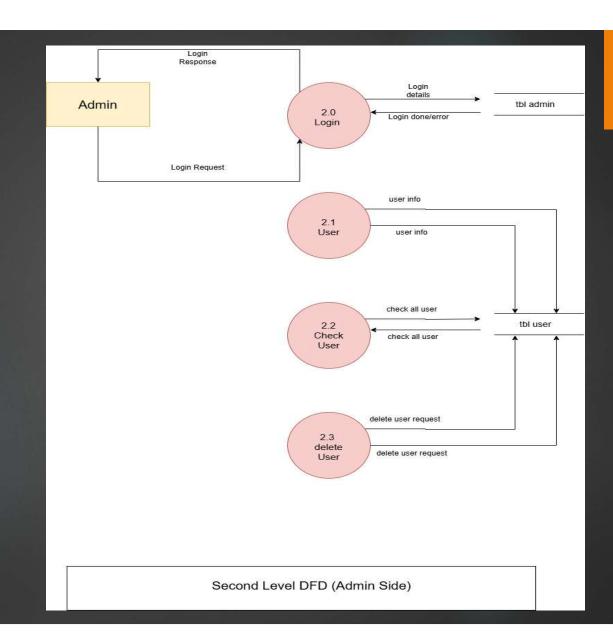
### **Context level;-**



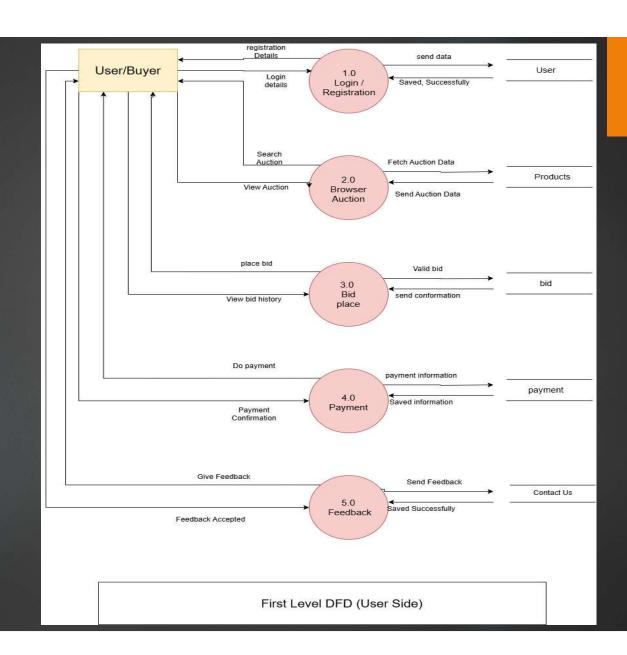
## 1st Level DFD Admin



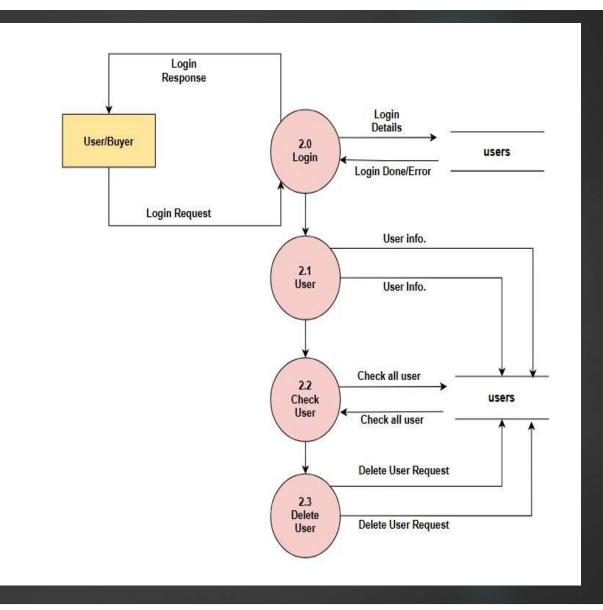
## 2nd Level DFD Admin



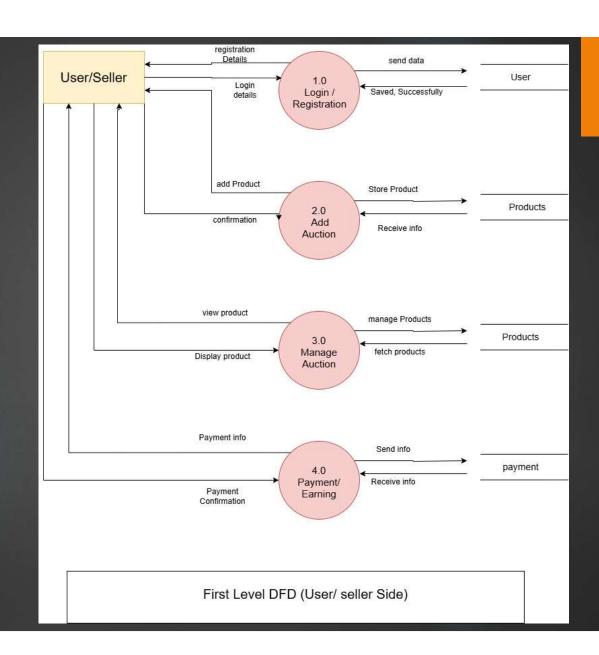
## 1st Level DFD User



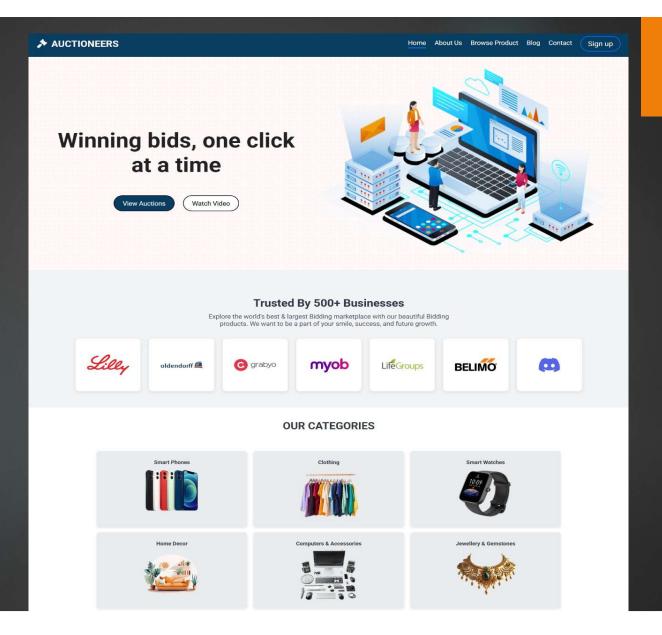
## 2nd Level DFD User



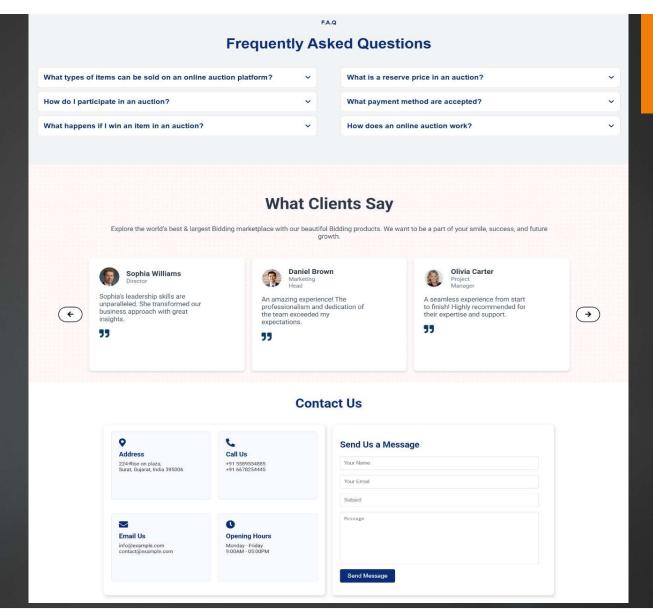
1st Level
DFD
User/seller



# System Design Home page

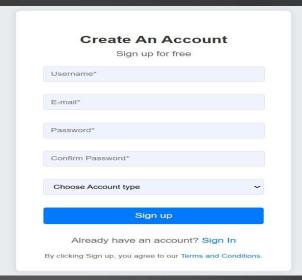


## System Design Home page



## Sign Up

## Sign In



### **Account Login**

Please enter your login details!

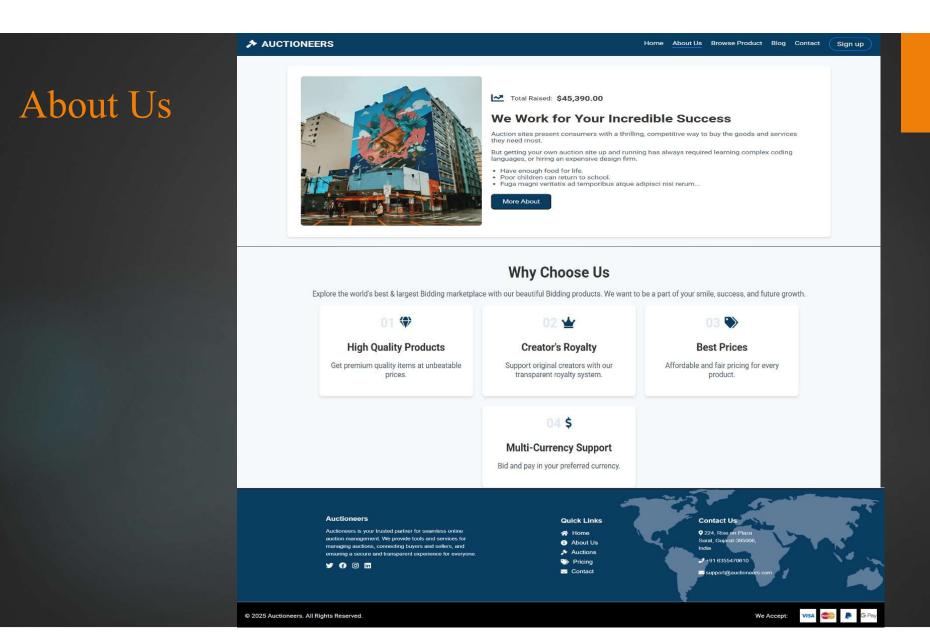
Username\*

Password\*

Forgot password?

Log in

Don't have an account? Sign Up



## Browse Product





#### Celestia Luxe 18K Gold Necklace

Current bid: \$700.00 Ends on: 2025-03-20



Current bid: \$1,490.00 Ends on: 2025-03-20



#### Apple MacBook Pro

Current bid: \$1,700.00 Ends on: 2025-04-15



#### Bluedio Over-Ear Wireless Headphones

Current bid: \$250.00 Ends on: 2025-04-24

Bid Now



#### SonicWave X200

Current bid: \$340.00 Ends on: 2025-03-20

Bid Now



#### Vintage Kiev-4 Rangefinder

Current bid: \$310.00 Ends on: 2025-04-16

Bid Now



#### Peugeot 508

Current bid: \$25,050.00 Ends on: 2025-03-20



#### Audi RS5

Current bid: \$56,000.00 Ends on: 2025-03-20







#### Audi RS5

Current bid: \$56,000.00 Ends on: 2025-03-20



#### Ford Bronco

Current bid: \$42,000.00 Ends on: 2025-04-05



#### Volvo XC90

Current bid: \$25,020.00 Ends on: 2025-03-20



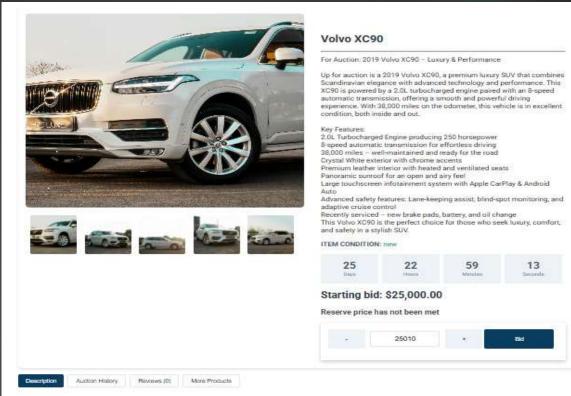
#### Ford Ranger Wildtrak

Current bid: \$15,000.00 Ends on: 2025-05-15

Previous



# Product Detail



For Auction: 2019 Volvo XC90 - Luxury & Performance

Up for suction is a 2019 Volvo XC90, a premium luxury SUV that combines Scandinavian elegance with advanced technology and performance. This XC90 is powered by a 2.0L turbocharged engine paired with an 8-speed automatic transmission, offering a smooth and powerful driving experience. With 38,000 miles on the odometer, this vehicle is in excellent condition, both inside and out.

#### Key Features:

2.0L Turbocharged Engine producing 250 horsepower

8-speed automatic transmission for effortless driving

38,000 miles - well-maintained and ready for the road

Crystal White exterior with chrome accents

Premium leather interior with heated and ventilated seats

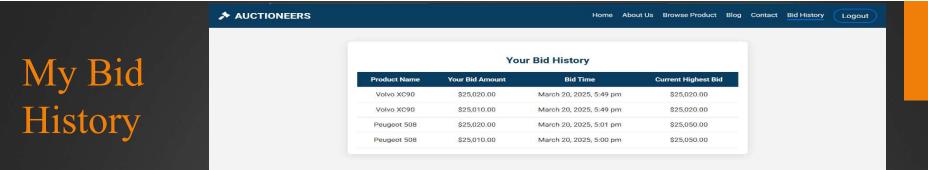
Panoramic sunroof for an open and airy feel

Large touchscreen infotainment system with Apple CarPlay & Android Auto

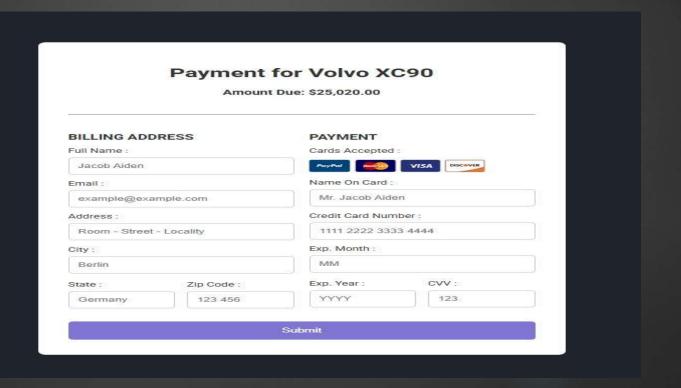
Advanced safety features: Lane-keeping assist, blind-spot monitoring, and adaptive cruise control

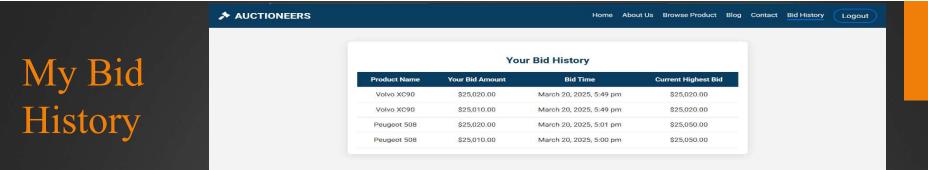
Recently serviced - new brake pads, battery, and oil change

This Volvo XC90 is the perfect choice for those who seek luxury, comfort, and safety in a stylish SUV.

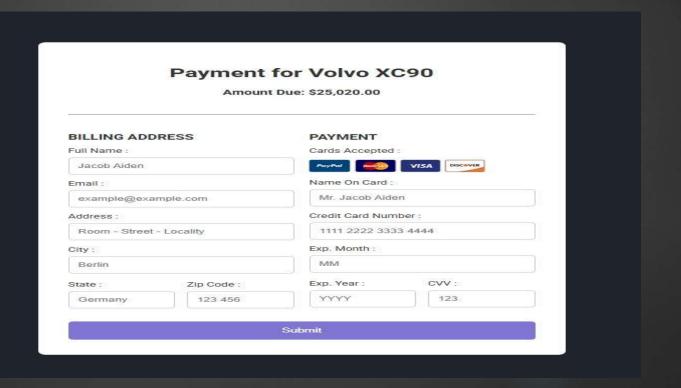


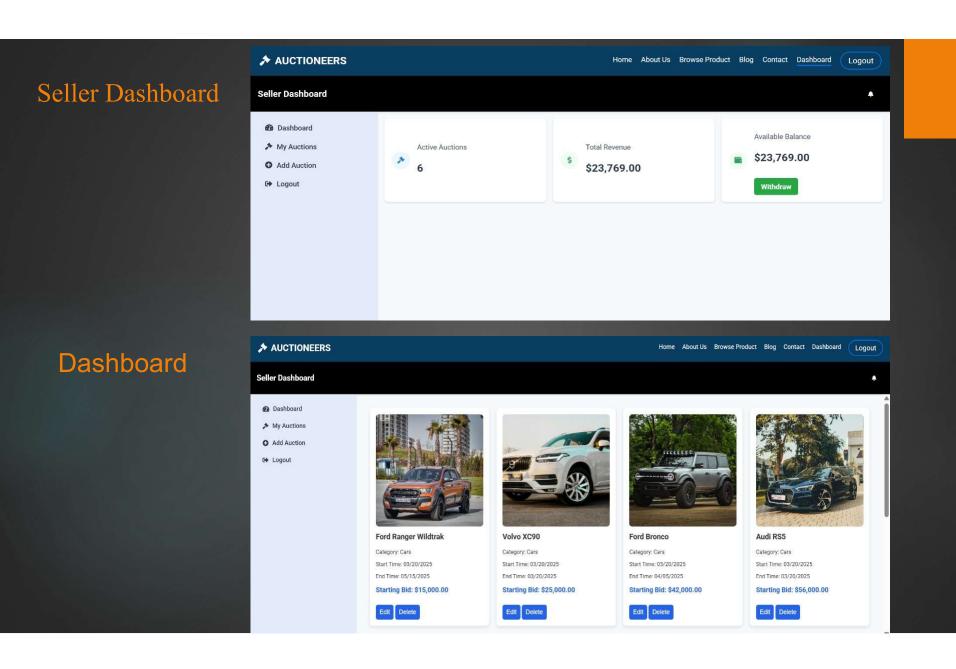
## Payment



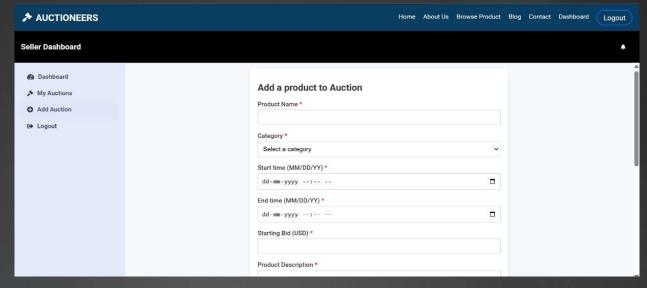


## Payment

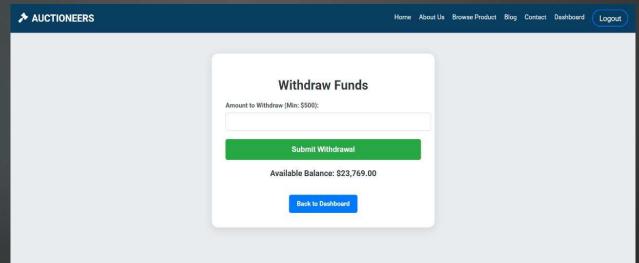




## Add Product



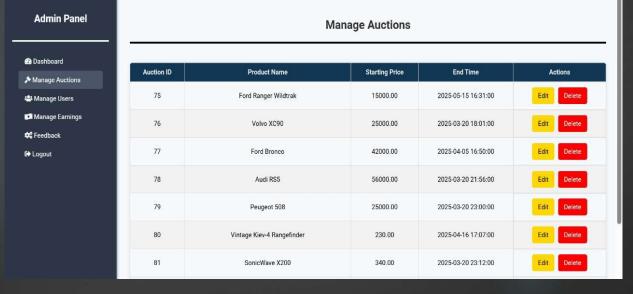
### Withdrawal

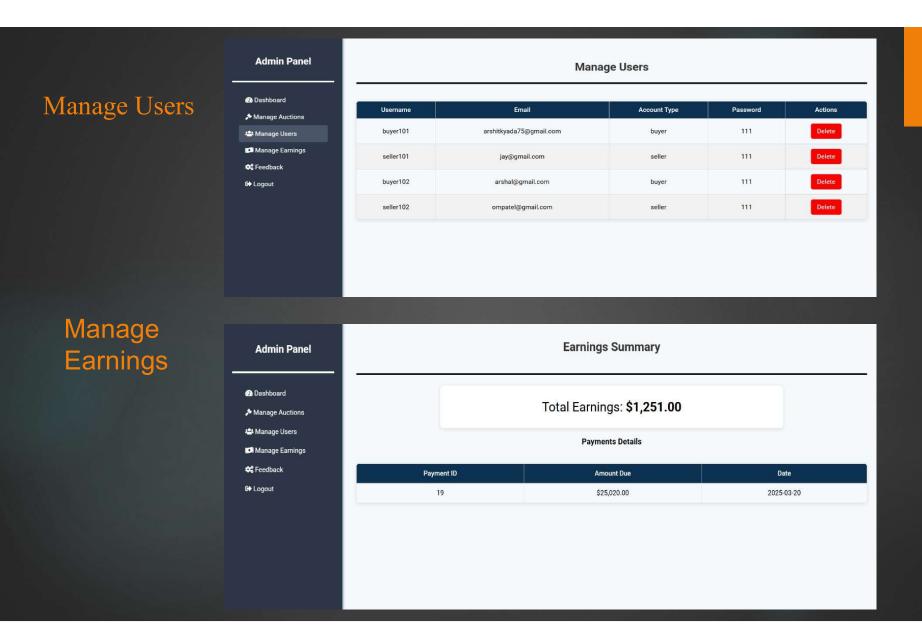


# Admin Dashboard



## Manage Auctions





## Feedback



- 2 Dashboard
- ≯ Manage Auctions
- amage Users
- Manage Earnings
- **♥** Feedback
- € Logout

### **Contact Us Messages**

Name	Email	Subject	Message	Created At	Action
Arshal nakrani	arshal54@gmail.com	Upcoming Auctions	I am interested in participating in your upcoming online auction and would like more details on the registration process, bidding rules, and payment options.	2025-03-20 18:21:15	Delete

## Limitation & System Enhancement

### **Limitation of Existing System:**

- Security Risks Vulnerable to fraud, fake bids, and cyber threats.
- Payment Issues Delays in processing payments and refunds.
- User Trust Lack of verification may lead to unreliable buyers/sellers.
- Limited Scalability Performance issues with high traffic.
- Auction Manipulation Sellers may use fake accounts to inflate bids.

### **User Experience Improvement**

- Advanced Security Implement AI-based fraud detection and encryption.
- Escrow System Secure payments until both parties confirm the transaction.
- User Verification KYC (Know Your Customer) for better trust.
- Auto-Scaling Servers Handle high traffic efficiently.
- AI-Based Bidding Assistant Smart recommendations and auto-bidding.

## Advantage

- Global Reach Attracts buyers worldwide.
- **24/7 Accessibility** Auctions run anytime.
- Automation Simplifies bidding and notifications.
- Cost Savings No need for physical venues.
- **Transparency** Real-time bid tracking.
- Data Insights Analyzes bidding trends.



## Disadvantage



- Security Risks Prone to fraud and hacking.
- Technical Issues Downtime or slow servers.
- **No Physical Inspection** Risk of misrepresentation.
- Bidding Manipulation Fake bids can inflate prices.
- **Legal Challenges** Compliance varies by region.
- Trust Issues Scams and counterfeit risks.

## Conclusion

- The **Online Auction Management System** offers a streamlined and transparent platform for buyers and sellers to participate in auctions efficiently. By automating the bidding process, it eliminates geographical limitations and enhances market accessibility.
- The system improves user experience by providing real-time updates, secure transactions, and easy auction management. However, challenges such as fraud, security risks, and payment disputes remain significant concerns.
- Implementing advanced security measures, AI-based fraud detection, and escrow payment systems can help mitigate these risks. Additionally, scalability improvements through cloud computing and blockchain integration will enhance the system's reliability and trustworthiness.
- Overall, the system revolutionizes traditional auctions, making them more accessible, efficient, and secure for a global audience.

## References

### **▶** Websites :

- w https://app.diagrams.net
- w https://www.w3schools.com
- **ω** https://www.javatpoint.com/
- w https://openai.com/blog/chatgpt
- w https://github.com

