

# Modern College of Arts, Commerce and Science

## Computer Science Department

- Student Names : 1. Atharva Mahamuni (2002276)  
2. Rugvedi Jamgaonkar (2002242)
- Class : M.sc. (Computer Science) – I
- Project Guide : Prof. Meghmala Patil
- Project Name : ONLINE AUCTION SYSTEM

**YEAR 2020-2021**



**P. E. Society's  
Modern College of Arts, Science & Commerce (Autonomous)  
Shivajinagar, Pune – 411005**

**Department of Computer Science**

**M.Sc. Computer Science -I, Sem-II  
2020-21**

## **CERTIFICATE**

This is to certify that Mr. / Miss. \_\_\_\_\_

Roll No. \_\_\_\_\_ has successfully completed the Project entitled

\_\_\_\_\_

as part of the M.Sc. (Computer Science)-I curriculum during the academic year 2020  
- 2021

Date:

Project Guide

Vice-Principal and Head,  
Department of Computer Science

Examiners:      Name

Sign

1. \_\_\_\_\_

\_\_\_\_\_

2. \_\_\_\_\_

\_\_\_\_\_

# ONLINE AUCTION SYSTEM

## PROJECT REPORT

### INDEX

1. About the project
2. Problem Definition
3. Existing System and need for the new system
4. Scope of the work
5. Feasibility study
6. Requirement Analysis
7. E-R diagrams
8. Decision trees/Decision tables
9. Normalized Database Design & Data Dictionary.
10. Use-case Diagrams
11. Class Diagrams

12. Object Diagrams

13. Sequence Diagrams

14. Activity Diagram

15. State Chart

16. Drawbacks, Limitations & Proposed enhancement

17. User interface design Menus

18. Bibliography/Reference

## ABOUT THE PROJECT

“eAuction Pune” is an online auction web site aimed at taking the auction to the finger tips of aspiring bidders there by opening up the doors of the “OPEN Auction House” to a wider cross section of Art Lovers and Antique Collectors and many more. This site also acts as an open forum where buyers and sellers can come together and exchange their products. The site makes sure that the sellers get a fair deal and buyers get a genuine product .

Home Page - The site opens up door to aspiring web users through the Home page. The Home page is designed in such way that the layout is as user friendly as possible. There is a navigational menu at the top of the page which links to various inner pages. There is a category drop down on the left side for easy manipulation. The center area is for displaying latest products in the chronological order.

Login/User Registration - Those who wish to take part in bidding or sell products at the site have to register at the

site as seller or buyer. Only authenticated users can take part in selling or in bidding.

Register Products - This module is for presenting items for bidding. Only those who have registered and authenticated as sellers can place their articles for bidding. The Module collects information like Product Name, Product Details, Highest Bid amount, etc.

Bidding Module - The module is for bidding on any selected item. The bidder has to authenticate before participating in bidding. The system checks whether the incremental amount entered by the bidder is equal or more than the incremental minimum set during the product registration time.

# PROBLEM DEFINITION

The problem with public auction is that the participation of the general public is very limited. The aim of the project is to socialize the auction so that people from far & wide and even across the continent can participate in it. The "E Auction" site is developed with a vision to wipe out the inherent problems of "Conventional Auction House". The salient features of the site are as follows:

- Paperless Auction System.
- It's accessible to everyone, at any time no matter where they are.
- Reliable user validation & checking.
- Easy online settlement.

## EXISTING SYSTEM

The existing "OPEN Auction House" is managed manually. Prior to each auction, the day of auction, the venue and the items on auction are announced through news media. Those who wish to take part in the auction have to arrive at the venue on that day on time.

This conventional method most of the times prevent aspiring bidders from participating in the bidding process. Another headache of the old system is to track each bidding process .

So the system has to keep records of both buyers and sellers until the end of settlement. The process is very cumbersome and time consuming.



## PROPOSED SYSTEM

The "e-Auction" is online auction house so the seller or bidder doesn't need to go anywhere, instead they can take part in the auction just sitting in the comfort of their living room.

The proposed computerized "e-Auction" site has made auction process simple. the user must register and authenticate before he/she can take part in the bidding process.

Another important module in the proposed project is the "Bidding module ". Here one can see the details of any particular product and also the closed listing.

The user can bid on that item by entering any amount greater than or equal to the incremental bid amount.

Here also system checks to see whether the user has his credential verified otherwise he/she will be directed to the login/registration page.

## SCOPE OF THE SYSTEM

This system is designed as an online web-based application which shall be accessed by any device, either a computer, tablet, iPad, iPhone, mobile phone.

Using this online auction management system, bidders will be able to get connected to the specific sellers who will offer them necessary information and give hand to sell their items to them. It will help to save time and offer quality deliverables to the bidders by quick response and attention services . This system will replace the manual way of seeking items in the market and travelling long journeys just to get an item.

The scope of this application to build a user friendly auctioning website, where user will be able to auctioned any product which is available anywhere in the world. By using Online Auction management system it will be easy for auctioneer to make an auction and time saving also. By making auction through this application will help to reach maximum of buyers bidding in local area. There will be a feature where bidder and seller can message each other.

# FEASIBILITY STUDY

## Operational Feasibility

An estimate should be made to determine how much effort and care will go into the developing of the system including the training to be given to the user. Usually, people are reluctant to changes that come in their progression. The computer initialization will certainly affected the turn over, transfer and employee job status.

Hence an additional effort is to be made to train and educate the users on the new way of the system.

## Technical Feasibility

The main consideration is to be given to the study of available resources of the organization where the software is to be implemented. the system analyst evaluates the technical merits of the system giving emphasis on the performance, reliability, maintainability and productivity. By taking the consideration before developing the proposed system, the resource availability of the organization was studied. The organization IS equipped with sophisticated machines and the software.

## Economical Feasibility

Economic feasibility is the most important and frequently used method for evaluating the effectiveness of the proposed system. It is very essential because the main goal of the proposed system is to have economically better result along with increased efficiency.

Cost benefit analysis is usually performed for this purpose. Since the organization is well equipped with the required hard ware, the project was found to be economical.

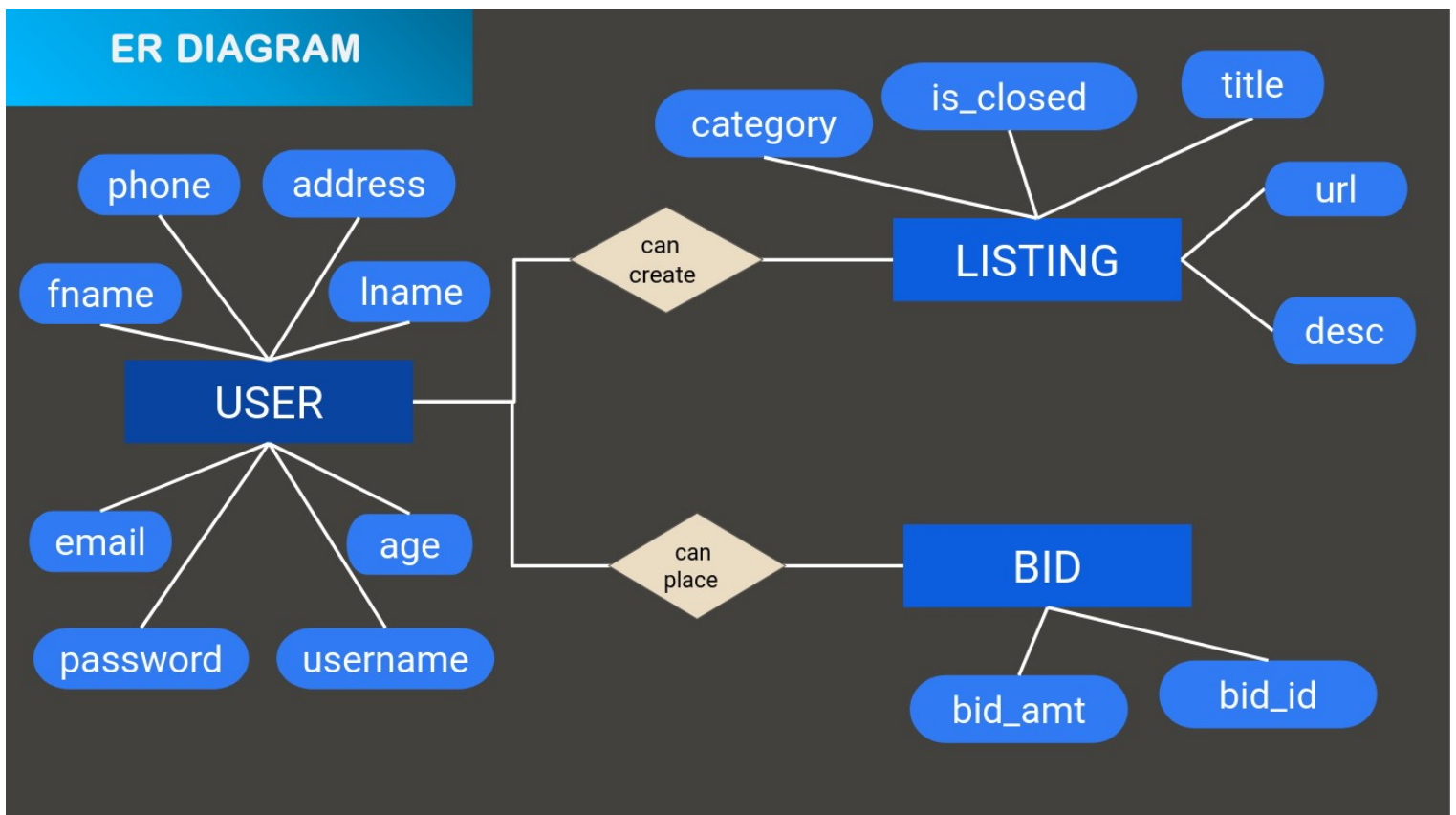
# REQUIREMENT ANALYSIS

The primary goal of the system analyst is to understand the requirements of the new system that is to be developed. For that the study of specification of the requirements is very essential. For the development of the new system, a preliminary survey of the existing system will be conducted. Investigation is done whether the upgradation of the system into an application program could solve the problems and eradicate the inefficiency of the existing system.

Hardware Requirements :- 500MB RAM and above, 1.5GHz Processor speed, 100MB of free disk space

Software Requirements :- Linux / Windows / Mac / Android, Web Browser, PostgreSQL, Python-Django

# ER DIAGRAM



# NORMALIZED DATABASE DESIGN

**Table Name: User**

Fields	Type	Null	Key	Default
<b>user_id</b>	int	NO	primary	0
<b>username</b>	char	NO	unique	
<b>fname</b>	char	NO		
<b>lname</b>	char	NO		
<b>email</b>	char	NO	unique	
<b>phone</b>	int	NO		
<b>address</b>	char	NO		
<b>age</b>	int	No		
<b>gender</b>	char	NO		

**Table Name: Bid**

Fields	Type	Null	Key	Default
<b>bid_id</b>	int	NO	primary	0
<b>bid_amt</b>	int	NO		0
<b>user_id</b>		NO	foreign	



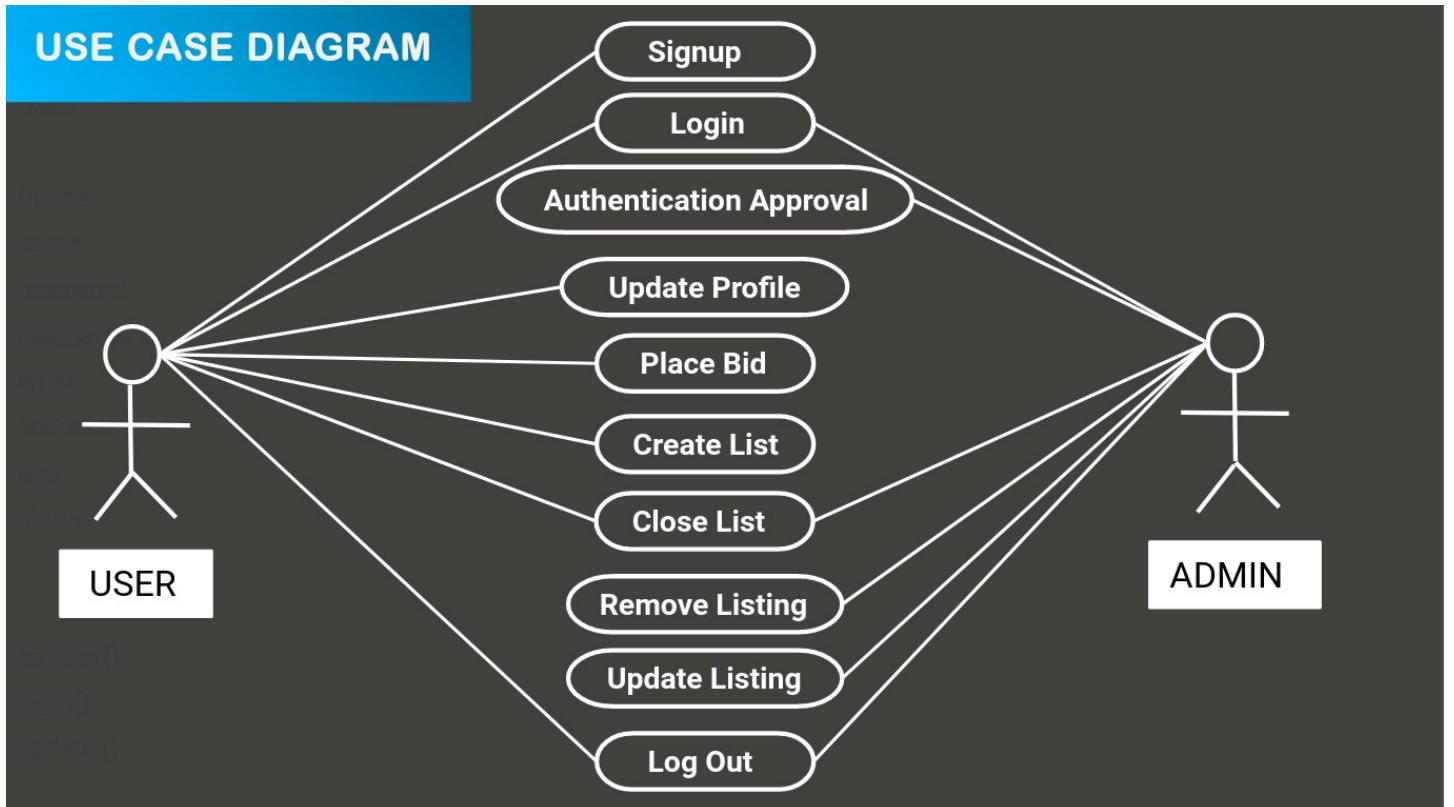
**Table Name: Listings**

Fields	Type	Null	Key	Default
listing_id	int	NO	primary	0
title	char	NO		
is_closed	bool	Yes		false
description	char	NO		
url	char	NO		tree.jpg
category	char	NO		
bid_id	int	NO	foreign	
user_id	int	NO	foreign	

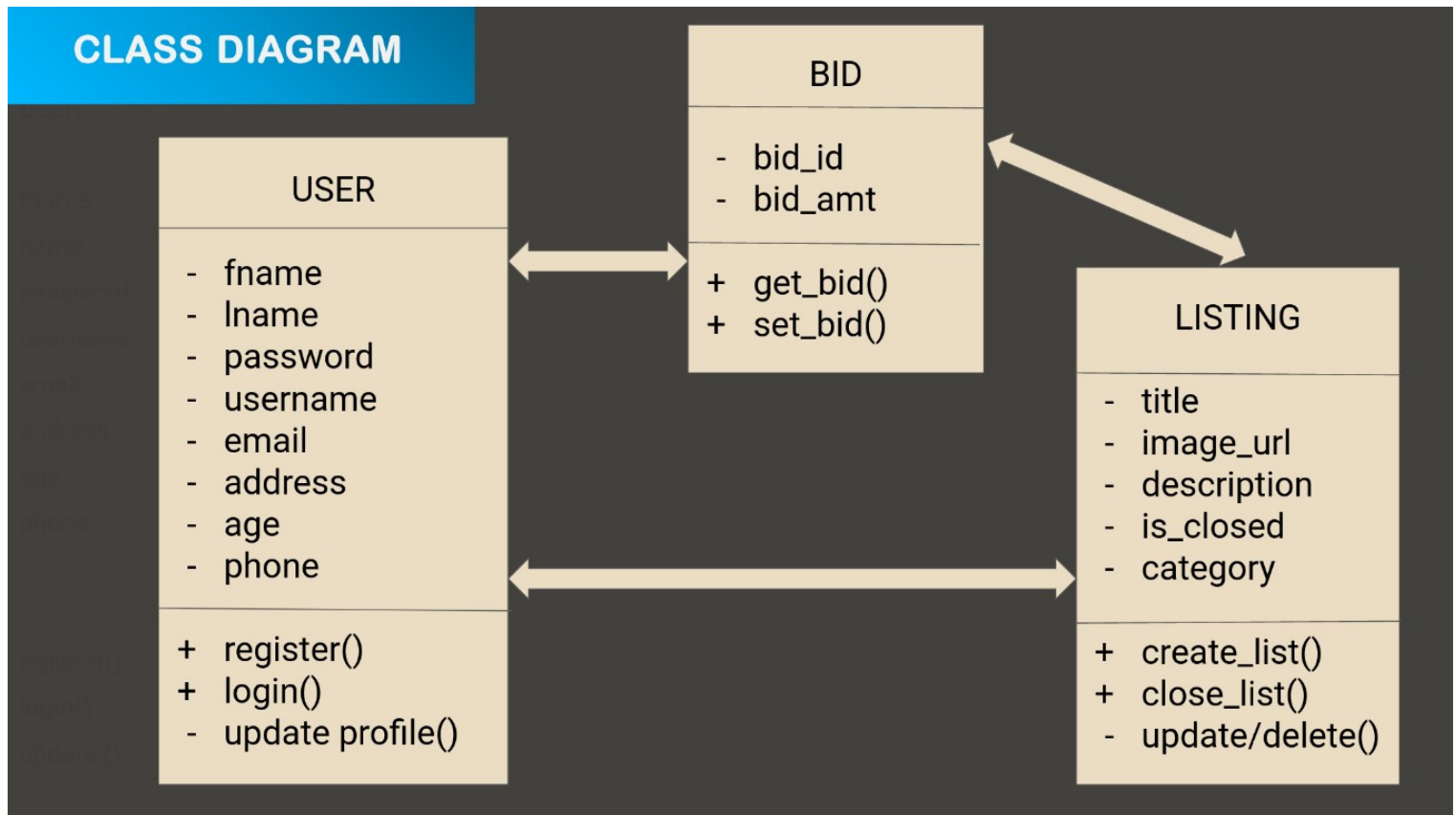
**Table Name: Listing\_watchlist**

Fields	Type	Null	Key	Default
lw_id	int	NO	primary	0
bid_id	int	NO	foreign	

# USE-CASE DIAGRAM

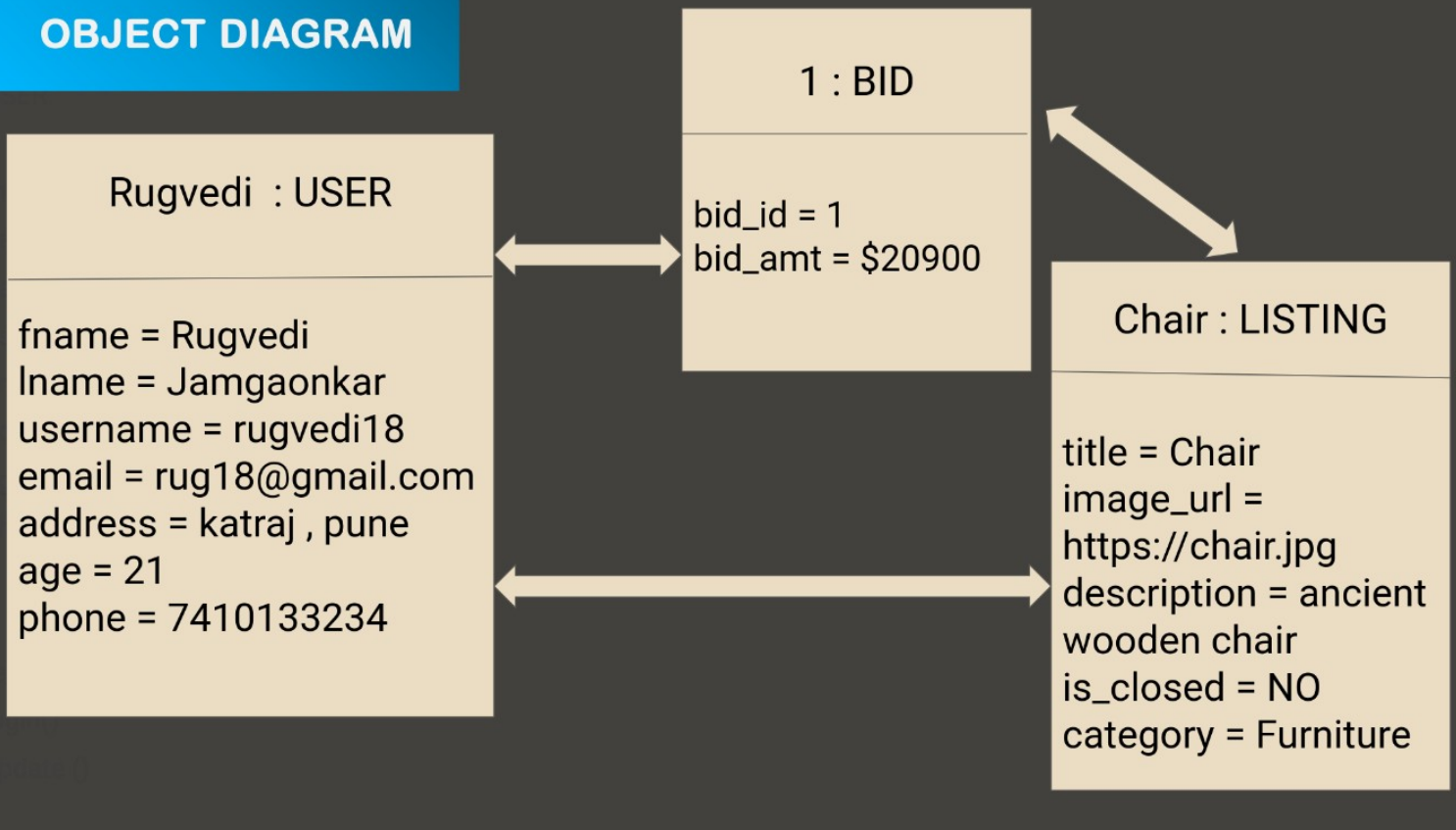


# CLASS DIAGRAM



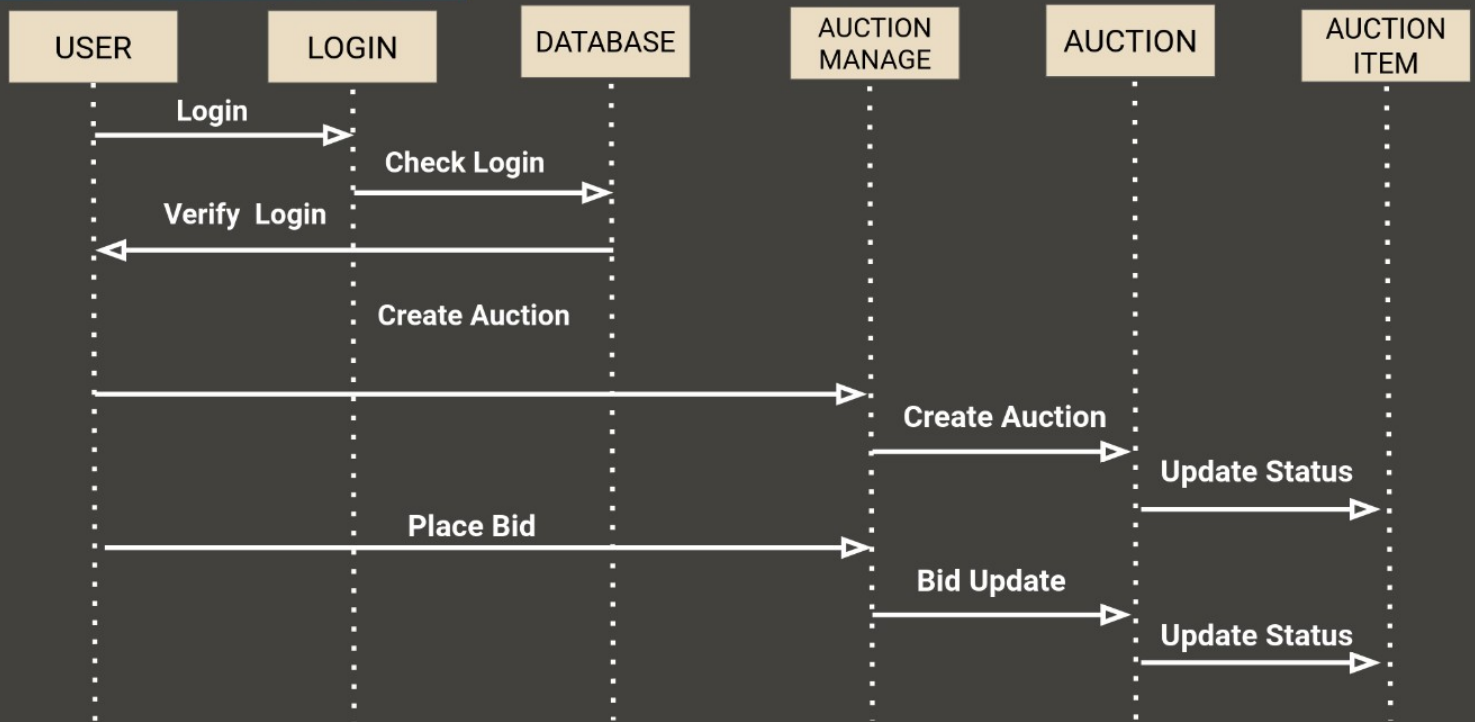
# OBJECT DIAGRAM

## OBJECT DIAGRAM

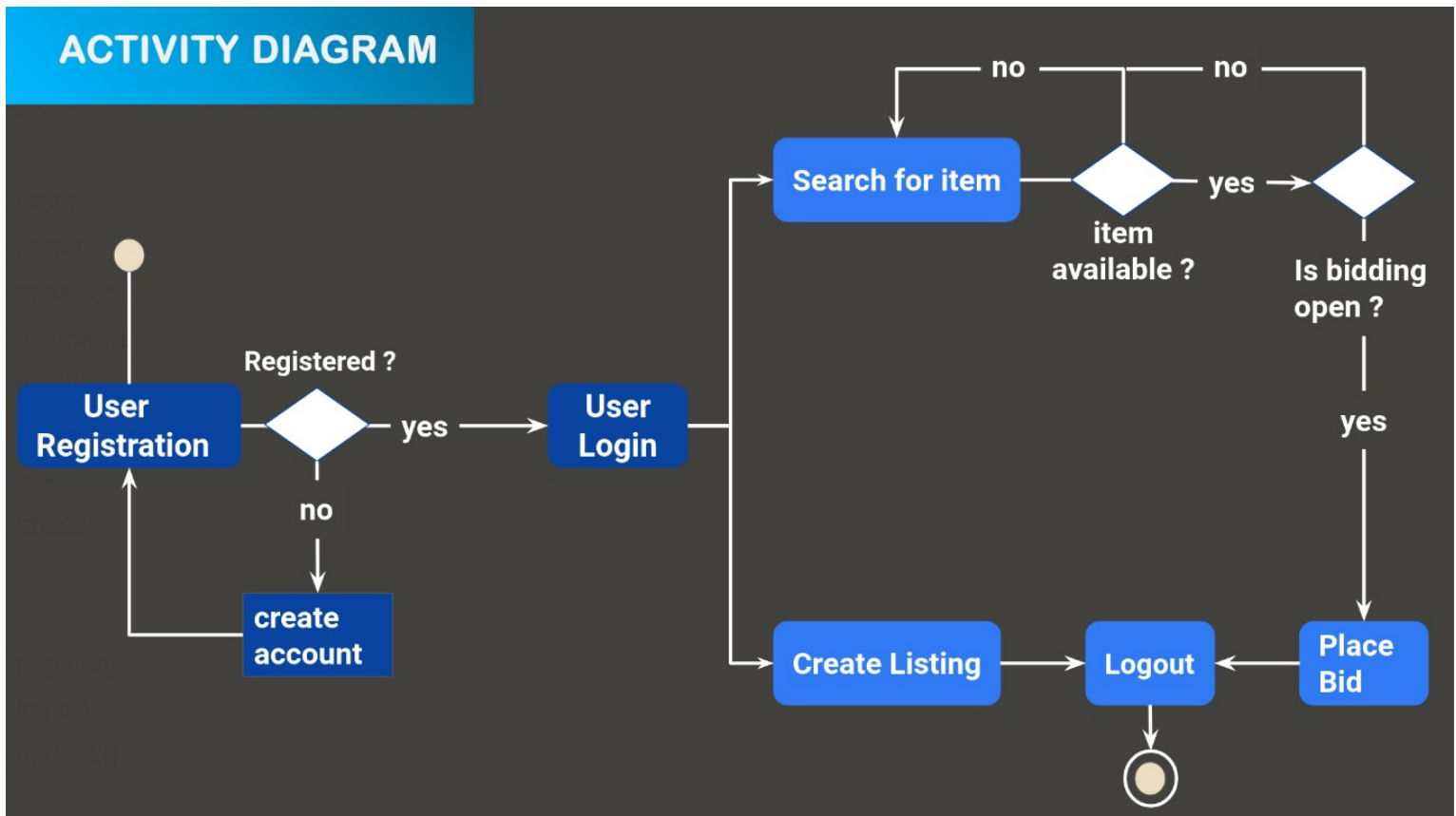


# SEQUENCE DIAGRAM

## SEQUENCE DIAGRAM

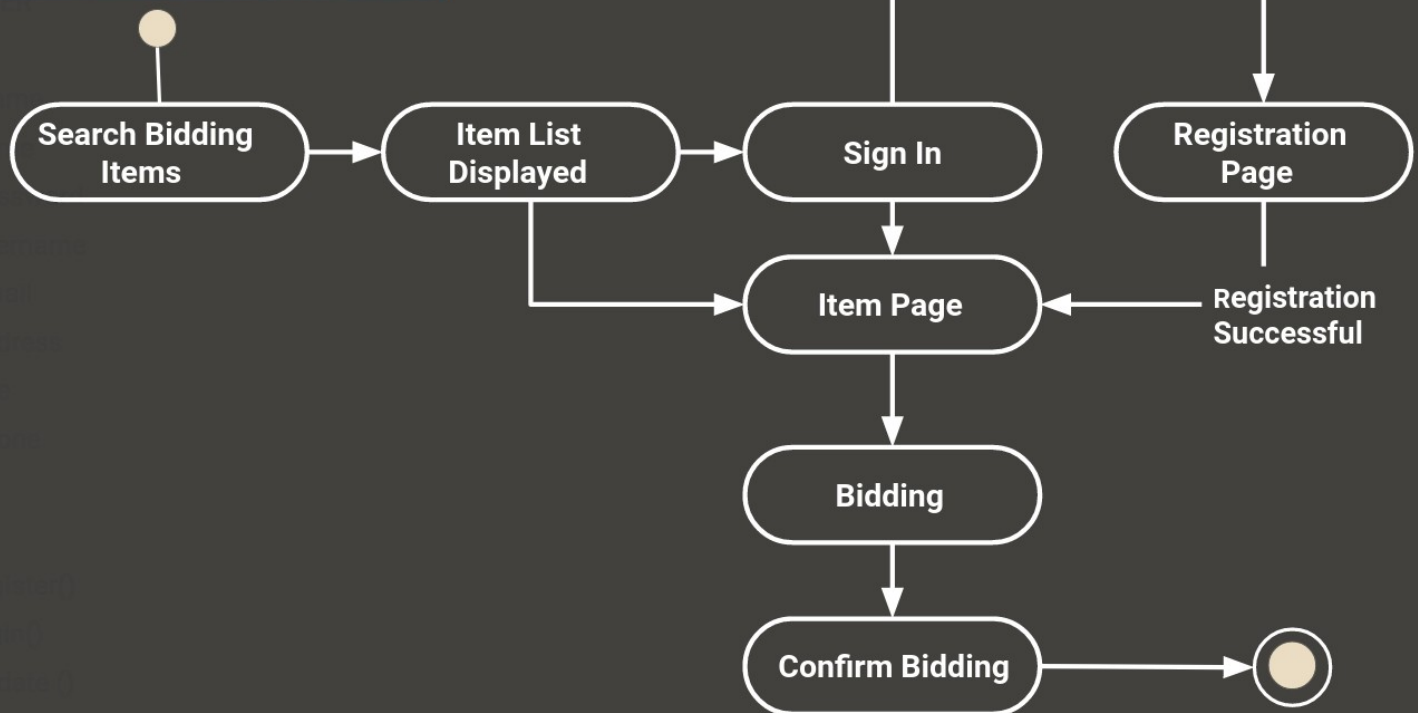


# ACTIVITY DIAGRAM



# STATE CHART DIAGRAM

## STATE TRANSITION DIAGRAM



## BENEFITS

- ✓ It is easy and quick, and it can be done from the comfort of your chair at home.
- ✓ Time saving.
- ✓ System provides a flexible, simple way to spread information about auctions.
- ✓ There are no entry fees and other additional expenses.
- ✓ Don't have to go anywhere.
- ✓ The platform is easy to use, and everything is done on one website.
- ✓ Online auctions can be a bit less tense, so you will likely spend less money.




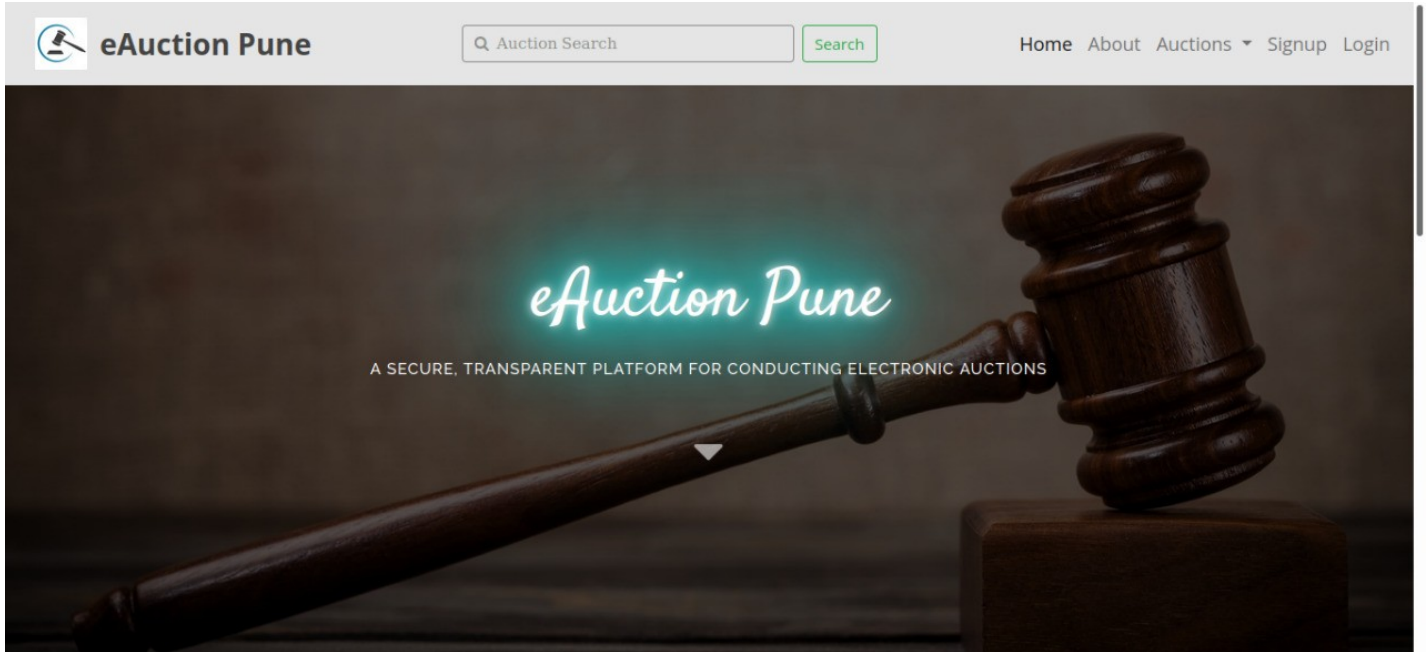
## DRAWBACKS

- x Shopping online is fun and addictive. Everything is virtual, so you can easily spend a lot more than you intended.
- x You don't get to inspect the item you are bidding for.
- x As anyone can attend the auction, it means you will have to outbid a lot more people. And that becomes harder as the number of bidders goes up.
- x A website may go down for multiple reasons.

# Limitatons

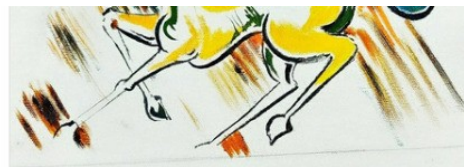
- x Security risk posed by threat vectors.
- x Price is often the major driving force.

# USER INTERFACE DESIGN MENUS



### Chevy Corvette Z06

Corvette Z06 will receive a special engine that should make it sound similar to the supercars it's trying to dethrone. The naturally aspirated 5.5-liter V-8 features a flat-plane crank, which means it should rev to between 8500 and 9000 rpm.

[View Details](#)

### Horse Painting

Majnu Bhai is a Bollywood movie character, played by Anil Kapoor in the film WELCOME. The film released in 21 December 2007. In this film, actor Anil Kapoor painted a horse and donkey in a canvas and this is known as "Majnu Bhai Ki Painting".

[View Details](#)

[View more...](#)

#### Address

Modern College,  
Shivajinagar,  
Pune - 411002.

#### About Company

About Us  
[Go to Home Page](#)  
[Terms & Conditions](#)

#### Useful Links

[Ongoing Auctions](#)  
[Closed Auctions](#)

#### Contact Us

Email Us  
[9143564587 / 9168099586](#)

© Copyright 2021 & Designed by Atharva Mahamuni and Rugvedi Jamgaonkar



# About eAuction Pune

A Platform to Buy in and Sell Out

An online auction (or also electronic auction or e-auction or eAuction) is an auction which is held over the internet. The scope and reach of these auctions have been propelled by the Internet to a level beyond what the initial purveyors had anticipated. This is mainly because online auctions break down and remove the physical limitations of traditional auctions such as geography, presence, time, space, and a small target audience.

eAuction Pune is a platform for Government Departments to conduct



# Create New Listing

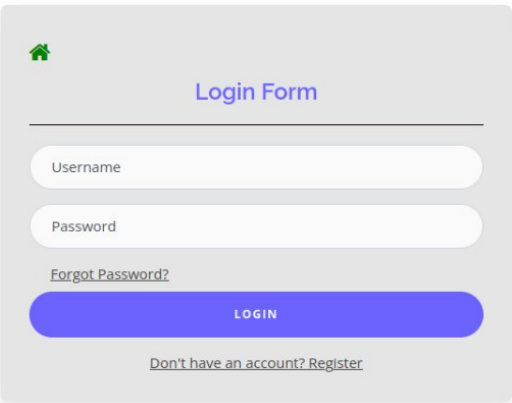
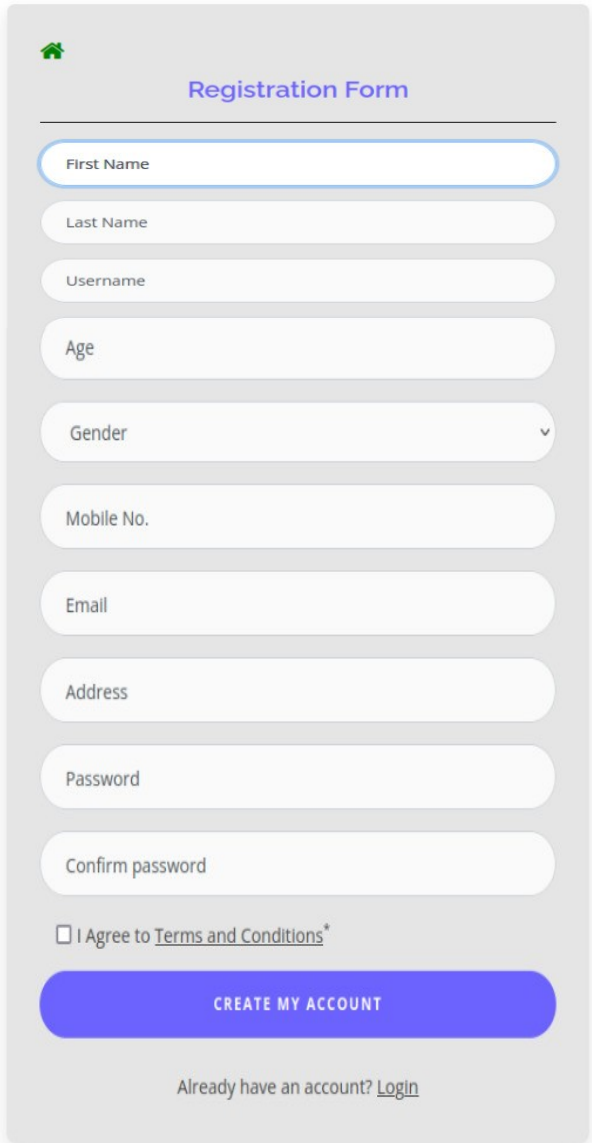
Title

Description

Bid

Category

Image URL







## Ongoing Auctions

All Categories ▾

Submit

Current bid: **swaroopK** - **\$80900**



Current bid: **admin** - **\$3000**



Current bid: **admin** - **\$1400**



## Closed Auctions

Highest bid: **admin** - **\$26099**



Highest bid: **raghu** - **\$766**



Highest bid: **rugvedi** - **\$2000**





[← Go to Home](#)

## Search Results

Current bid: **swaroopK** - **\$80900**



**Chevy Corvette Z06**

Corvette Z06 will receive a special engine

Current bid: **admin** - **\$26099**



**Yamaha YZF R1**

Yamaha YZF R1 is powered by 998 cc

Current bid: **admin** - **\$27963**



**Raleigh Bikes Redux  
Hybrid Bike**



## Terms & Conditions

### Limitations of Liability

We will not be liable for indirect, special, or consequential damages (or any loss of revenue, profits, or data) arising in connection with this Agreement or the Program, even if we have been advised of the possibility of such damages. Further, our aggregate liability arising with respect to this Agreement and the Program will not exceed the total referral fees paid or payable to you under this Agreement. Winning bidder must complete the payment process after the listing is closed.

### Disclaimers

We make no express or implied warranties or representations with respect to the Program or any products sold through the Program (including, without limitation, warranties of fitness, merchantability, noninfringement, or any implied warranties arising out of a course of performance, dealing, or trade usage). In addition, we make no representation that the operation of the The Bootstrap Themes will be uninterrupted or error-free, and we will not be liable for the consequences of any interruptions or errors.

### Ownership

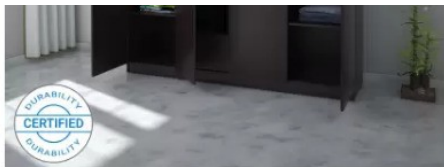
Once you create a listing, you have to close it before 7 days. After the period of 7 days, the listing will be managed by the admin. You cannot back out from the process after the listing is closed. You must sell the product to the highest bidder and complete payment process. We provide our products without any warranty, as it is. You cannot hold



Atharva\_CM  
necrons999@gmail.com

## My Profile

First Name	A
Last Name	M
Phone	9168066596
Email	necrons999@gmail.com
Age	21



The material used in this wardrobe is laminated from all the sides to give it full proof protection from moisture and other external factors. This wardrobe has undergone a special anti-termite treatment to give you a termite-free experience throughout its lifetime. The particle boards of this wardrobe are made from recycled wood to reduce your carbon footprint.

Current bid: **rugvedi** - \$900

Add to watchlist

Place new bid

### Address

Modern College,  
Shivajinagar,  
Pune - 411002.

### About Company

About Us  
Go to Home Page  
Terms & Conditions

### Useful Links

Ongoing Auctions  
Closed Auctions

### Contact Us

Email Us  
9143564587 / 9168099586



## BIBLIOGRAPHY

- ◆ <https://eauction.gov.in/eauction/>
- ◆ <https://www.ebay.com/>
- ◆ <https://docs.djangoproject.com/en/3.2/>