



# Dharamsinh Desai University, Nadiad

Faculty of Technology, Department of Computer Engineering

B.Tech. CE Semester – VI

Subject: System Design Practice

Project Title:

## **Online Auction**

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# Dharmsinh Desai University, Nadiad

Faculty of Technology, Department of Computer Engineering

## CERTIFICATE

This is to certify that System Design Practice project entitled “Online Auction” is the bonafide report of work carried out by

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Of Department of Computer Engineering, Semester VI, academic year 2019-2020, under our supervision and guidance.

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# 1. Abstract

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Online Auction provides facility of auction to customer. They can take part in auction, view live auction. Customer can also put their products online on our website for the auction, so that other customer can buy it. They can earn profits from it. We are also providing auction for players auction. The teams can take part in it online. Normal user can watch the special auction but cannot take part in it. Authorized special users by admin only can take part in it.

## 2. Introduction

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Online auction will provide auction facility to users so that they can buy products online. Users can also view other live auctions. Users can put their products in to our website very easily for the online auction so other user can buy it and they can earn profits. There is one special section for players auction. It is permitted to specific users only by the admin user. Many e-commerce websites provide selling of the products through their website but there is not much website that provide user facility to do auction of their products online. Our aim is to provide auction facility online to all users.

## Tools/Technologies

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### **Technologies:**

HTML 5

CSS 3

Bootstrap 4

Python

Django

DBSqlLite

AWS S3 Buckets

### **Tools:**

Visual Studio Code

PyCharm

**Hosted at:** Localhost:8000/

# 3. Software Requirement Specifications

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## **3.1 Types of User**

1. End users
2. Admin

## **3.2 System Functional Requirements**

### **R.1: End Users**

#### R.1.1: Login

IP: Provide username & password

OP: Success or invalid message

Process: validation of credentials

#### R.1.2: Register

IP: Add required information

OP: Successfully registered

#### R.1.3: Live Auctions

There are the category vice auctions. User can see live, upcoming and past auctions.

IP: Enter to home page of auctions.

OP: View auctions.

#### R.1.4: Take Part

User can take part in auctions by raising the price in live auctions.

If that user is last in incrementing the price then he/she will be

the owner of that item

IP: raise price.

OP: user name store to data base.

R.1.5: Add the product in the Auctions.

User can add the product in the auctions, by adding the auction detail.

IP: provide the all product detail.

OP: Item added in the auction .

## **R.2: Admin**

R.2.1: Login

IP: Provide username & password

OP: Success or invalid message

Process: validation of credentials

R.2.2: Show users

IP: show request of users

OP: List of users

R.2.3: Organize the Auctions.

Admin can organize the auctions, by adding the auction detail.

IP: provide the all auction detail.

OP: auction will be added.

R.2.4: manage the user

Give authority to particular users, only that can raise the price

IP: make that user to authorize.

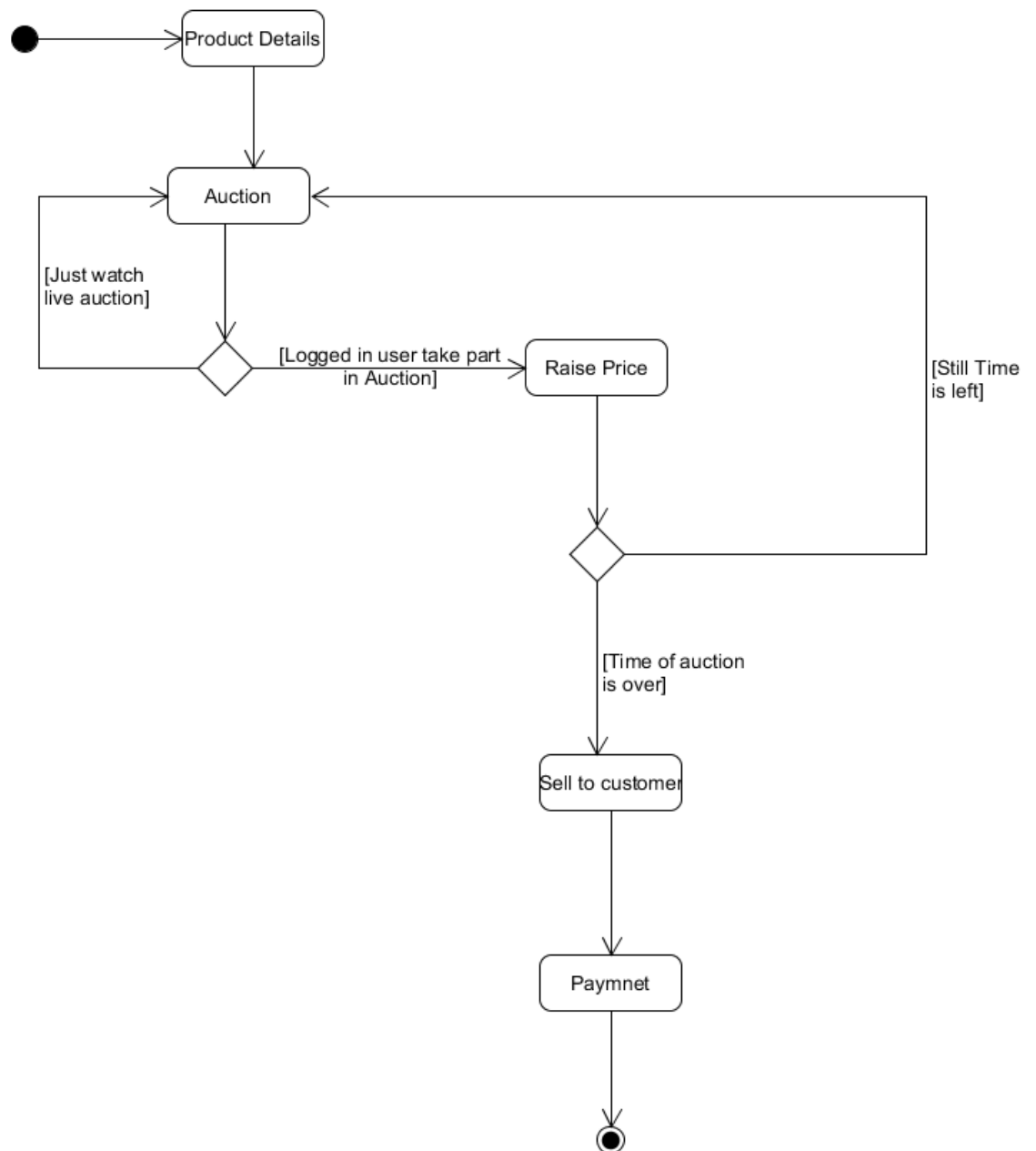
OP: mark that user authorize in data base.

## 4. Design

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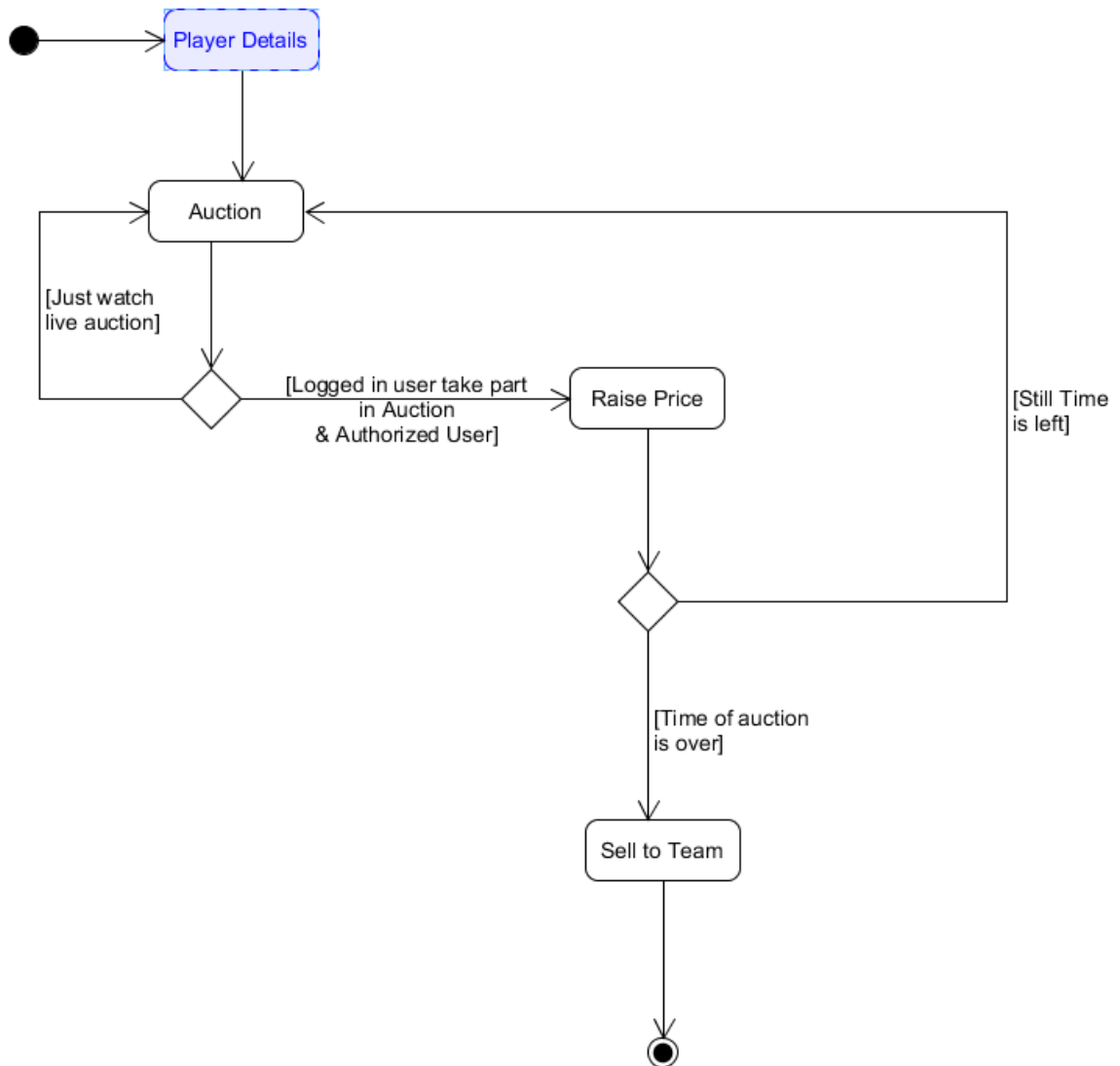
### Activity Diagrams

#### 1) Product Auction



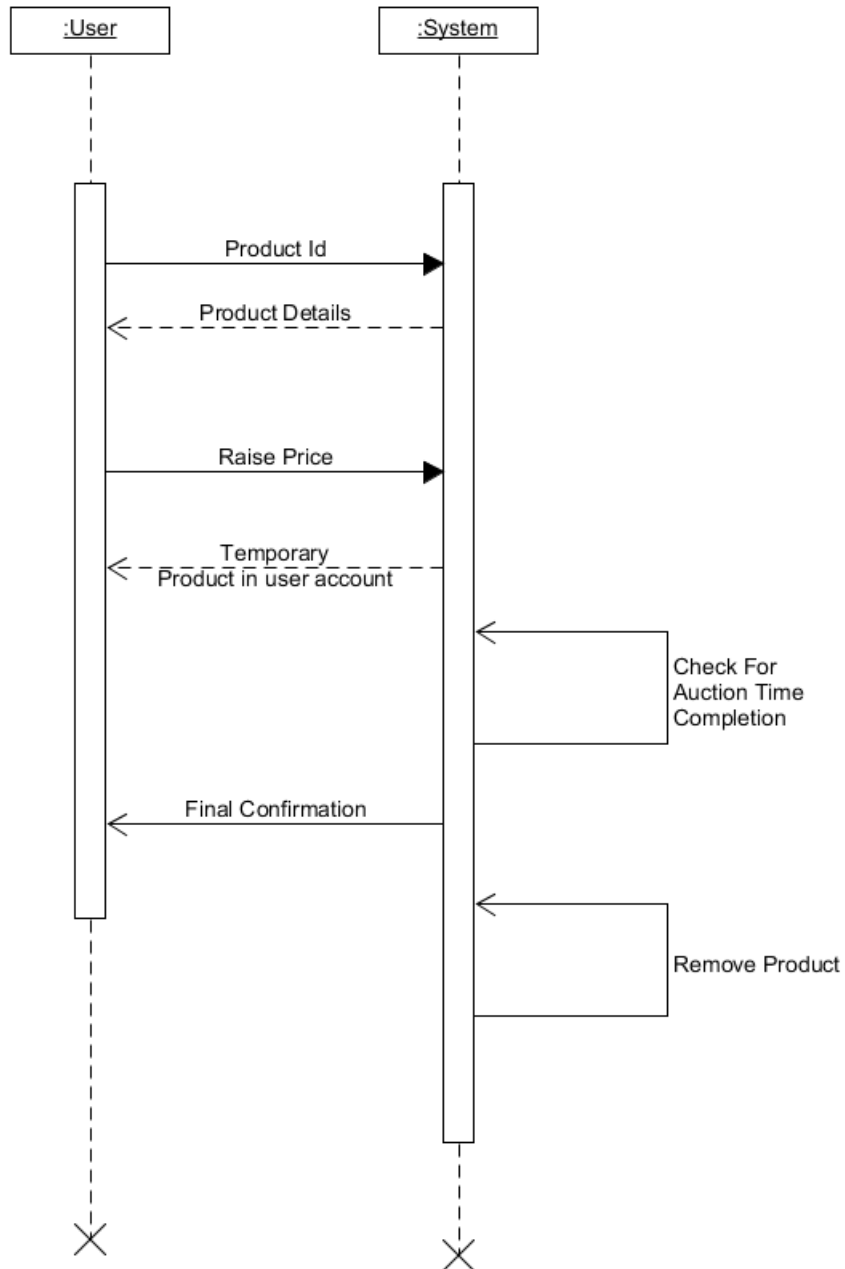


## 2) Player Auction

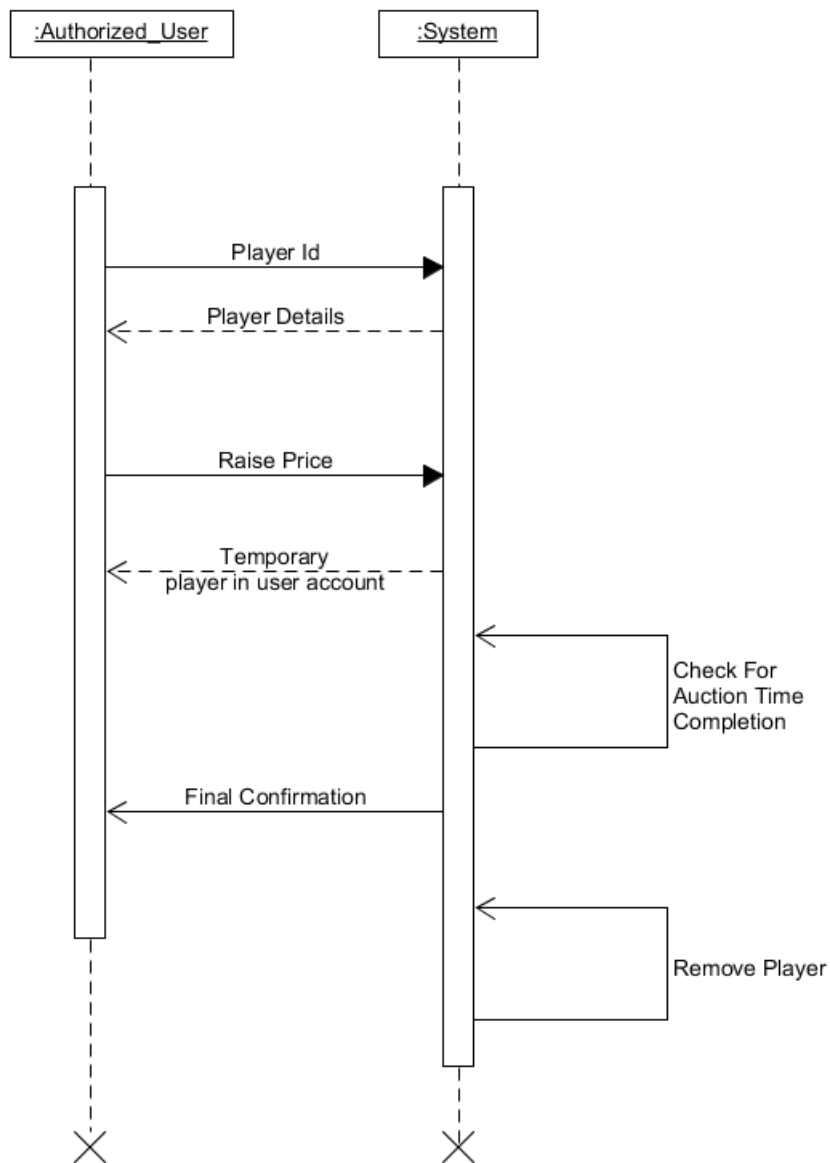


# Sequence Diagrams

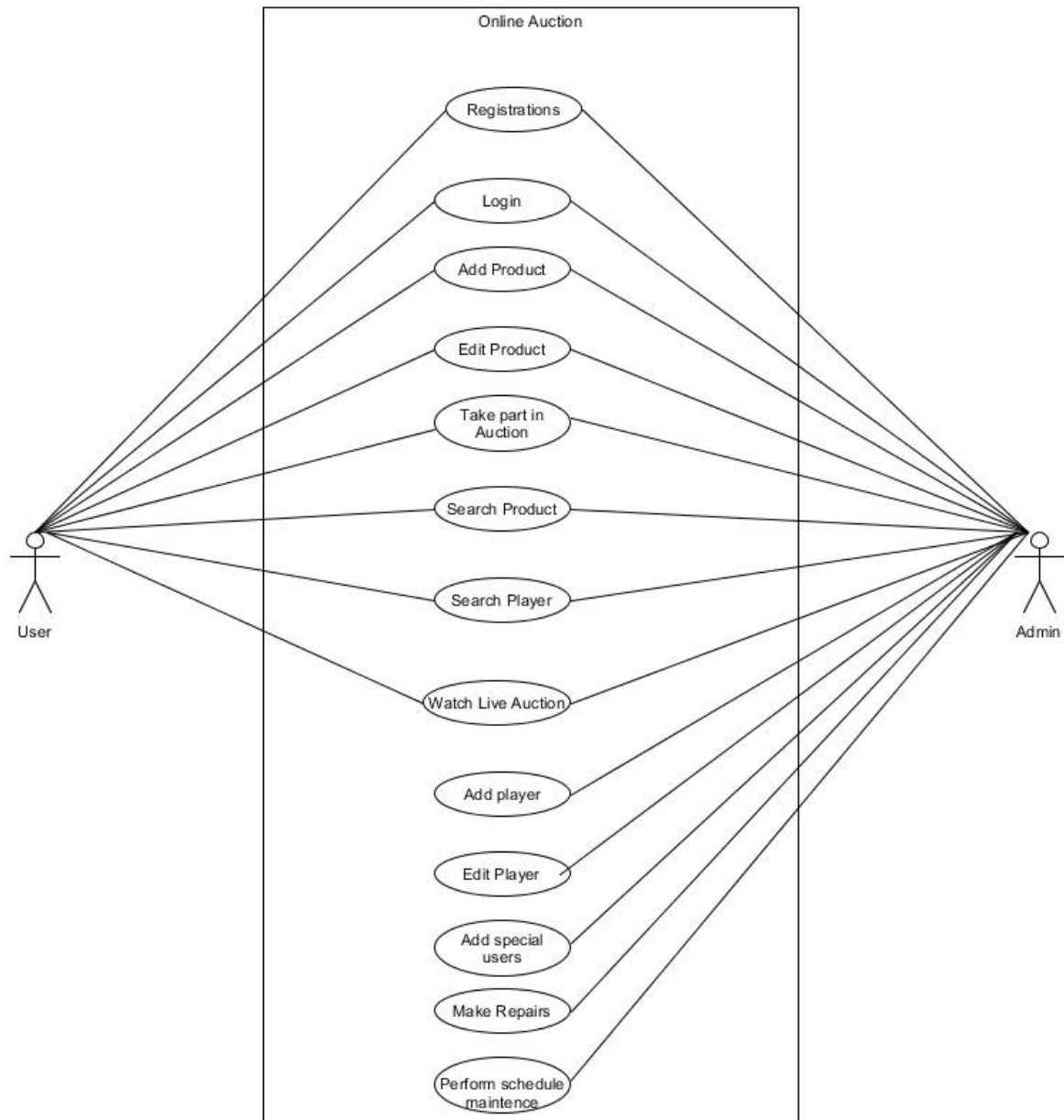
## 1)Product Auction



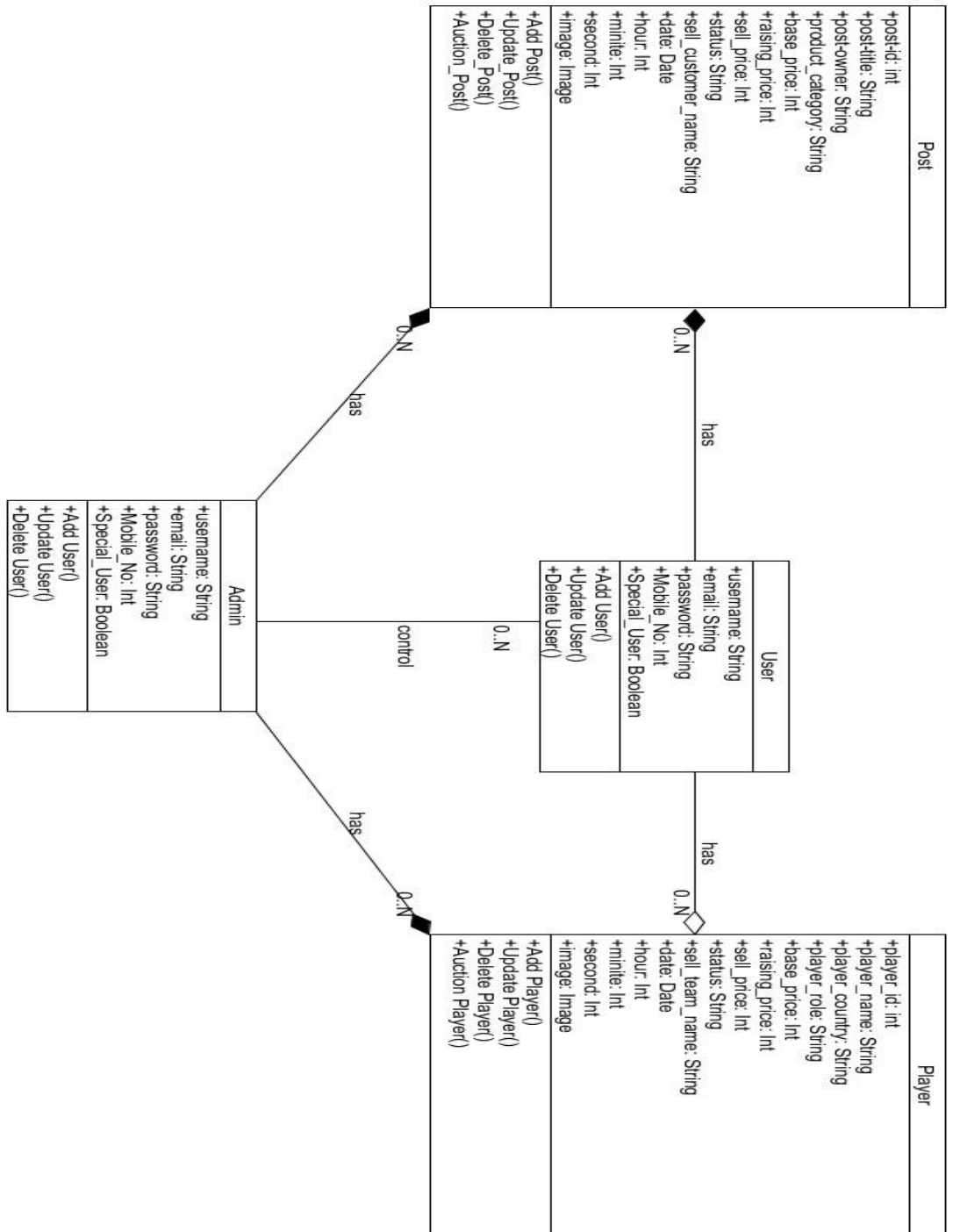
## 2) Player Auction



# Use-Case Diagram

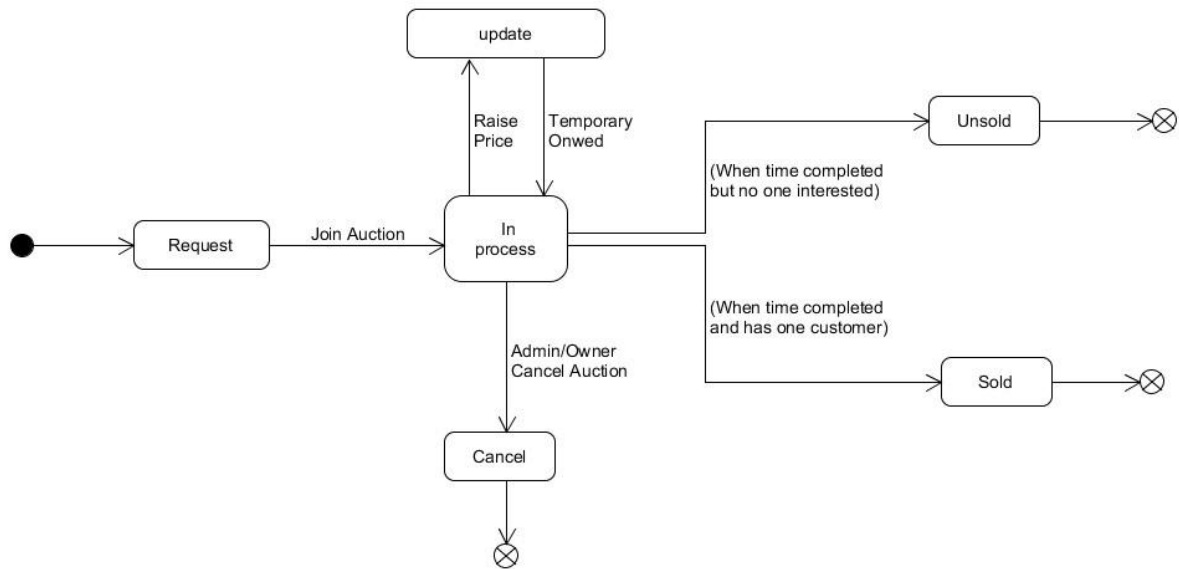


# Class Diagram

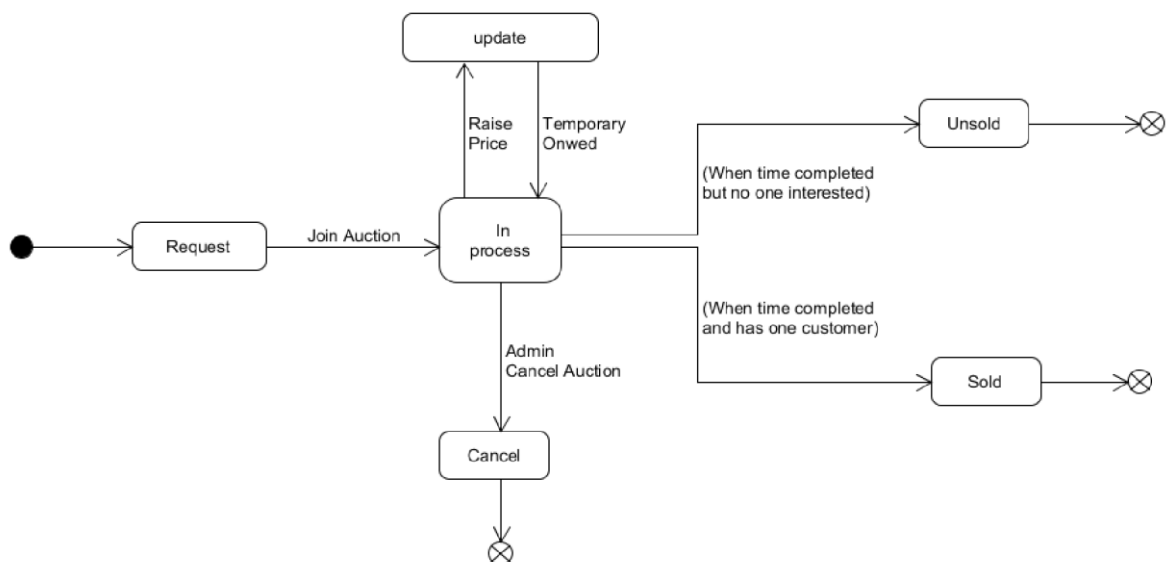


# State Diagram

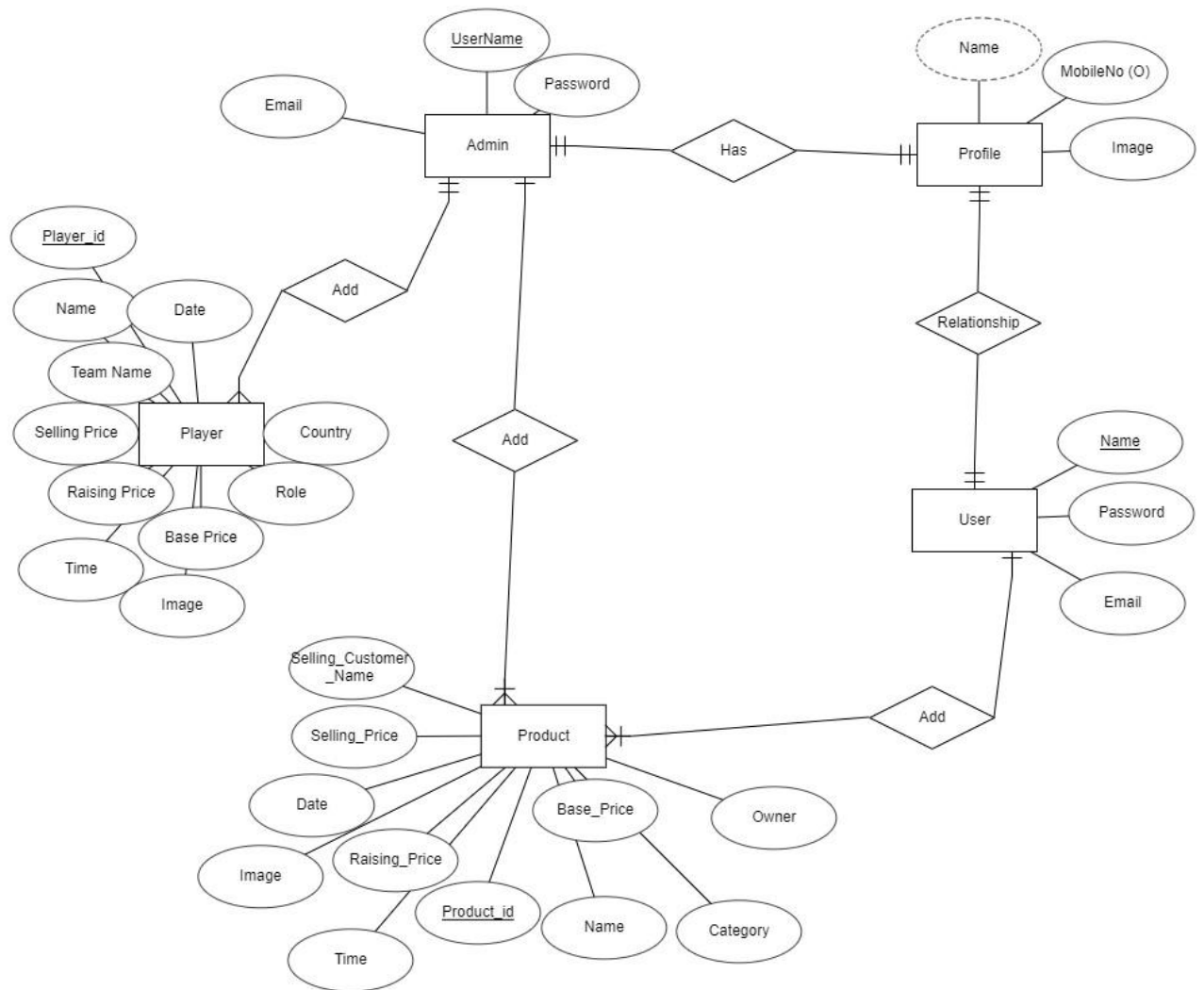
## 1) Products State Diagram



## 2) Players State Diagram



# ER Diagram



# Data dictionary

Admin Table							
Sr. No.	Field Name	Data Type	Width	Required	Unique	PK/FK	Referenced Table
1	Name	varchar2	10	Yes	Yes	PK	
2	Email	varchar2	20	Yes	No	No	
3	Password	varchar2	12	Yes	No	No	

Profile Table							
Sr. No.	Field Name	Data Type	Width	Required	Unique	PK/FK	Referenced Table
1	Name	varchar2	10	Yes	Yes	FK	Admin Table
2	Mobile No	int	10	No	No	No	
3	Image	image	12	Yes	No	No	

Player Details							
Sr. No.	Field Name	Data Type	Width	Required	Unique	PK/FK	Referenced Table
1	Player_id	int	25	Yes	Yes	PK	
2	Name	Varchar2	10	Yes	No	No	
3	player_country	Varchar2	10	Yes	No	No	
4	player_role	Varchar2	11	Yes	No	No	
5	base_price	int	12	Yes	No	No	
6	raising_price	int	12	Yes	No	No	
7	sell_price	int	12	Yes	No	No	
8	sell_teamName	varchar2	25	Yes	No	FK	Profile Table
9	status	boolean	5	Yes	No	No	
10	date	date	8	Yes	No	No	
11	hour	int	2	Yes	No	No	
12	minite	int	2	Yes	No	No	
13	seconds	int	2	Yes	No	No	
14	image	image	500	Yes	No	No	

Post Details							
Sr. No.	Field Name	Data Type	Width	Required	Unique	PK/FK	Referenced Table
1	Post_id	int	25	Yes	Yes	PK	
2	Post_title	Varchar2	10	Yes	No	No	
3	Post_owner	Varchar2	10	Yes	No	No	
4	product_category	Varchar2	11	Yes	No	No	



5	base_price	int	12	Yes	No	No	Profile Table
6	raising_price	int	12	Yes	No	No	
7	sell_price	int	12	Yes	No	No	
8	sell_customerName	varchar2	25	Yes	No	FK	
9	status	boolean	5	Yes	No	No	
10	date	date	8	Yes	No	No	
11	hour	int	2	Yes	No	No	
12	minite	int	2	Yes	No	No	
13	seconds	int	2	Yes	No	No	
14	image	image	500	Yes	No	No	

User Table							
Sr. No.	Field Name	Data Type	Width	Required	Unique	PK/FK	Referenced Table
1	Name	varchar2	10	Yes	Yes	PK	
2	Email	varchar2	20	Yes	No	No	
3	Password	varchar2	12	Yes	No	No	

## 5. Implementation Details

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### 5.1 Modules created and brief description of each modules

#### **Admin Module:**

Admin can add products and players to the auction. Admin will provide date and time of the end of the auction. Admin will also select categories of the products. Admin will have access to all the products that are added by any user. Admin will have access to permit the auction that is added by user. Admin will also able to specialize user for allowing user to player auction. Admin can also see the AWS S3 Bucket that stores the all the images of the system.

#### **User Module:**

Users will able to login and register. For all the new registration they will receive email from the system automatically. User can also reset the password by the link that system provide in their email address.

User can also add products in auction, edit it & also delete it.

#### **Auction Module:**

Without login user can only view live auction and players auction. If user wants to start bidding in auction they must need to login to the system. At the end of the timer which ever user have highest bidding that product or player will be sell to him. To bid in player auction user will need special permission from the admin side.

## **5.2 Function Prototypes**

### **1) Registration**

It will take username, email and password to register new user. Username must be unique to all the users. Email will be sent to email address after the successful registration of the user.

### **2) Login**

It will take username and password to login of the user.

### **3) Forgotten Password**

It will take register email id of the user. On that email it will send one password change link with encryption. User must need to click on that link to change their password.

### **4) Profile**

In this section user can upload image to their profile. User can update mobile no, email and all other user details.

## 5) Details

This function will provide all the details of the product or player to the user.

## 6) Auction

This function is the most important function of the system. It will take Id of the product. If user want to bid on the product it will add its name and price to the auction. After completion of the auction it will redirected to sold function.

## 7) Sold

It will check if the product has no bidder than it will be unsold. But if it has bidder than it will display the new owner name, selling price of that product.

## 8) History

It will display all the details of the product and player whose auction is completed. At what price and whom it is sold will be displayed here.

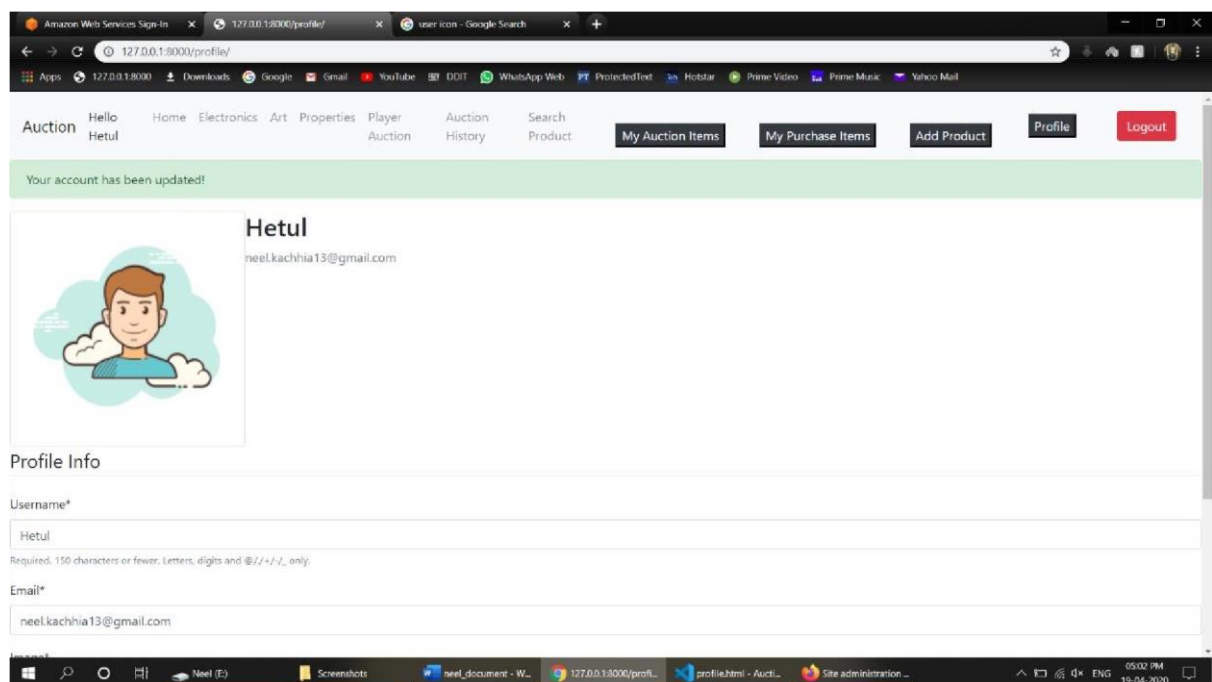
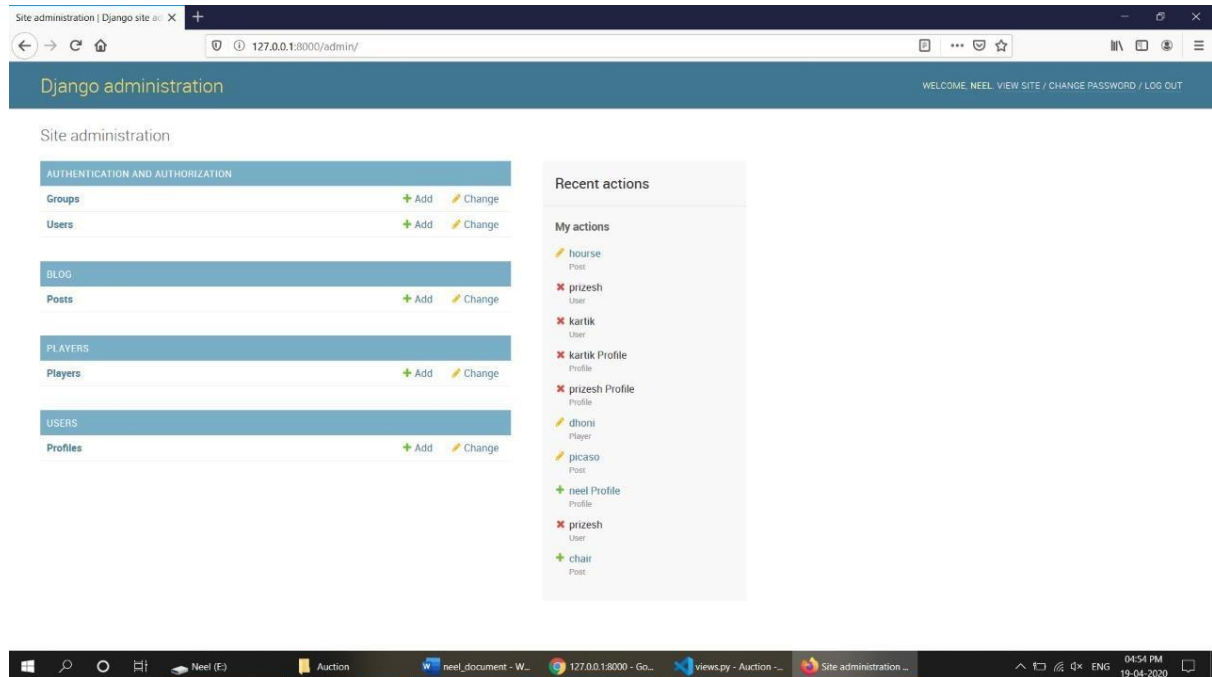
## 9) Your Players

It will display the batsman, bowlers, allrounders of the user that they have bought during the auction.

## 10) Add Product

This function will provide functionality to user to add products in the online auction. User need to provide all the details of the product.

## 6. Screenshots



127.0.0.1:8000/post/new/

art images - Google Search

127.0.0.1:8000/post/new/

Apps 127.0.0.1:8000 Downloads Google Gmail YouTube DDT WhatsApp Web ProtectedText Hotstar Prime Video Prime Music Yahoo Mail

Auction Hello Hetul Home Electronics Art Properties Player Auction Search Product My Auction Items My Purchase Items Add Product Profile Logout

### Blog Post

Title\*

painting

Content\*

with natural colours

Image\*

Choose File art.jpeg

Base price\*

5000

Raising price\*

50

Product category\*

art

Date\*

19-04-2020

Windows 10 Taskbar: Screenshot, 127.0.0.1:8000/post..., profile.html - Auction, Site administration, Screenshot (41).png, 06:34 PM 19-04-2020

Change user | Django site admin

127.0.0.1:8000/admin/auth/user/1/change/

### Django administration

WELCOME, NEEL VIEW SITE / CHANGE PASSWORD / LOG OUT

Home / Authentication and Authorization / Users / neel

#### Change user

Username: neel

Required: 150 characters or fewer. Letters, digits and @/./+/-/\_ only.

Password: algorithm: pbkdf2\_sha256 iterations: 120000 salt: kjTMC4\*\*\*\*\* hash: Y1xD/R\*\*\*\*\*  
Raw passwords are not stored, so there is no way to see this user's password, but you can change the password using this form.

#### Personal info

First name: Neel

Last name: Kachhla

Email address:

#### Permissions

☒ Active  
Designates whether this user should be treated as active. Undeselect this instead of deleting accounts.

☒ Staff status  
Designates whether the user can log into this admin site.

☒ Superuser status  
Designates that this user has all permissions without explicitly assigning them.

Windows 10 Taskbar: Neel (E), Auction, neel\_document - W..., redmi note 9 pro - ..., view.py - Auction, Change user | Django, 04:58 PM 19-04-2020

Amazon Web Services Sign-In x 127.0.0.1:8000/register/ x redmi note 9 pro - Google Search x

127.0.0.1:8000/register/

Apps 127.0.0.1:8000 Downloads Google Gmail YouTube DDT WhatsApp Web ProtectedText Hotstar Prime Video Prime Music Yahoo Mail

Auction Home Electronics Art Properties Player Auction Auction History Search Product Login Register

### Join Today

Username\*

Hetul

Required: 150 characters or fewer. Letters, digits and @/./+/-/\_ only.

Email\*

neel.kachhia13@gmail.com

Password\*

\*\*\*\*\*

- Your password can't be too similar to your other personal information.
- Your password must contain at least 8 characters.
- Your password can't be a commonly used password.
- Your password can't be entirely numeric.

Password confirmation\*

\*\*\*\*\*

Enter the same password as before, for verification.

Sign Up

Already Have An Account? Sign In

Neel (E) Screenshots neel\_document - W... 127.0.0.1:8000/regis... views.py - Auction ... Site administration ...

05:00 PM 19-04-2020

Add player | Django site admin x

127.0.0.1:8000/admin/Players/player/add/

Django administration WELCOME, NEEL VIEW SITE / CHANGE PASSWORD / LOG OUT

Home : Players : Players : Add player

### Add player

Player name: Kohli

Player country: India

Player role: Batsman

Base price: 3000

Raising price: 200

Sell price: 0

Status: bidding

Sell teamName:

Date: 2020-04-30 Today

Note: You are 5.5 hours ahead of server time.

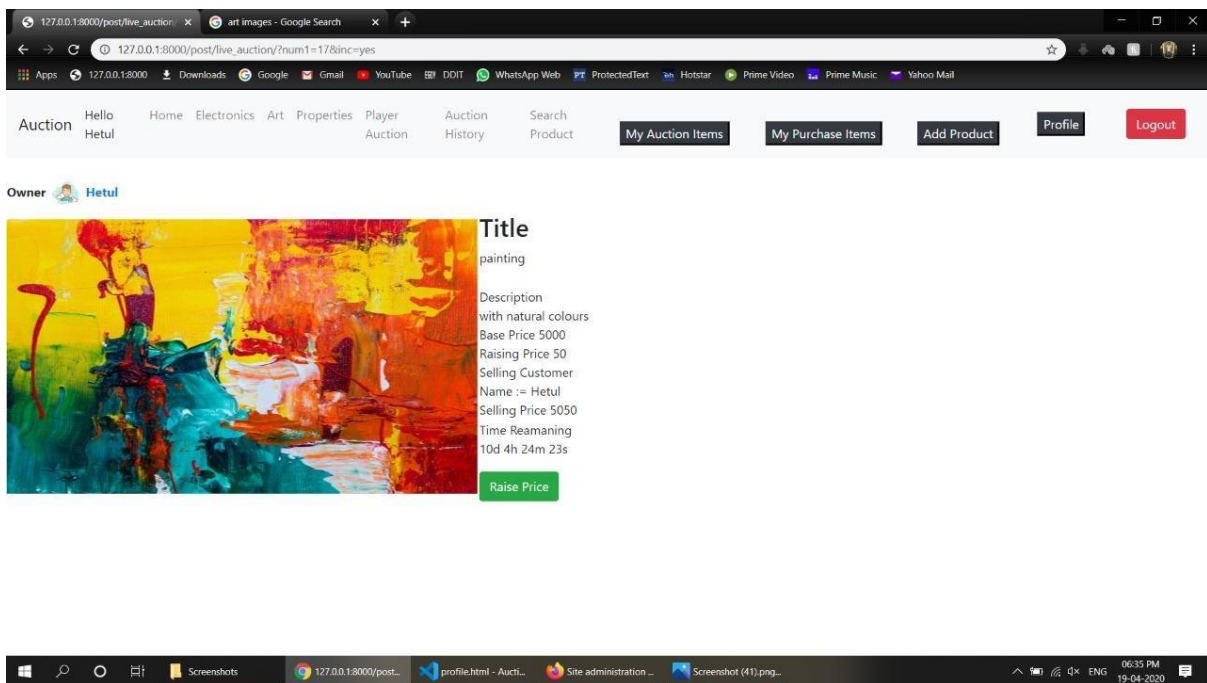
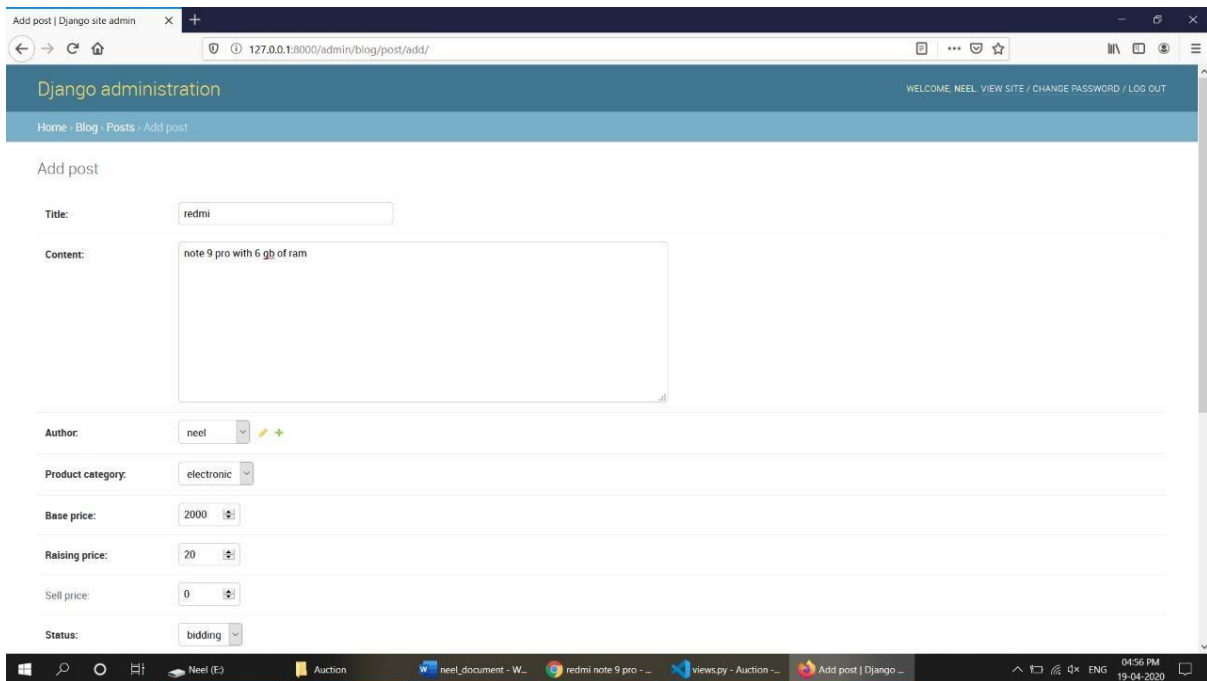
Hour: 0

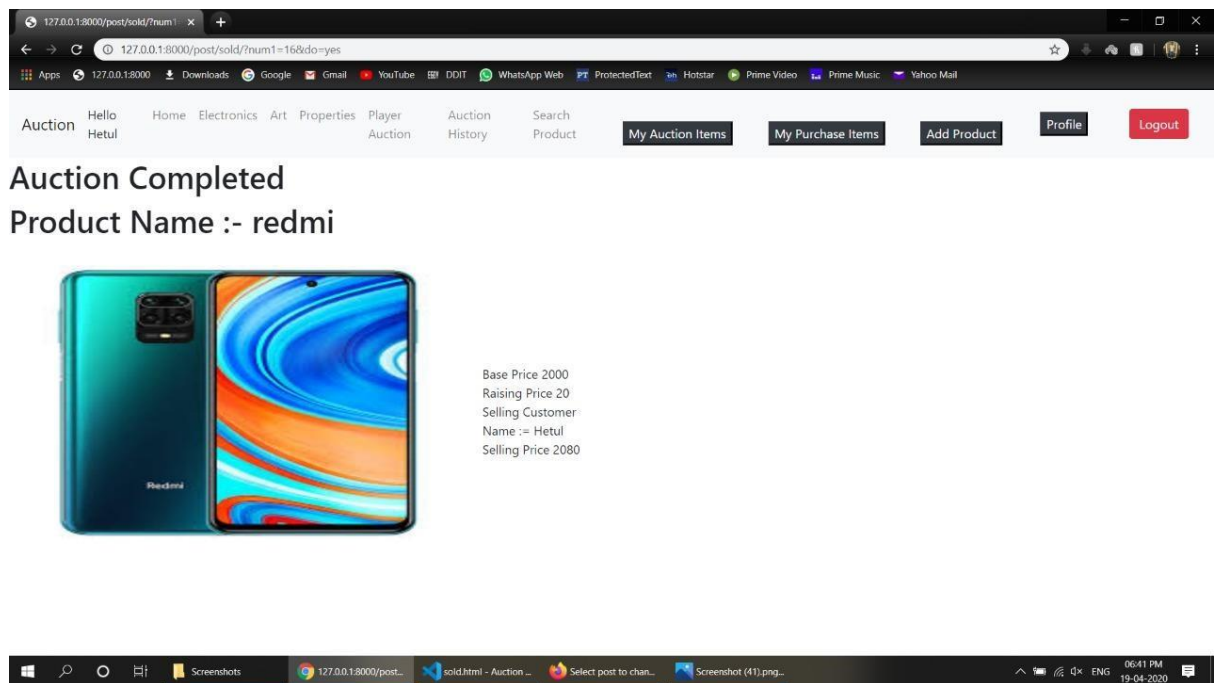
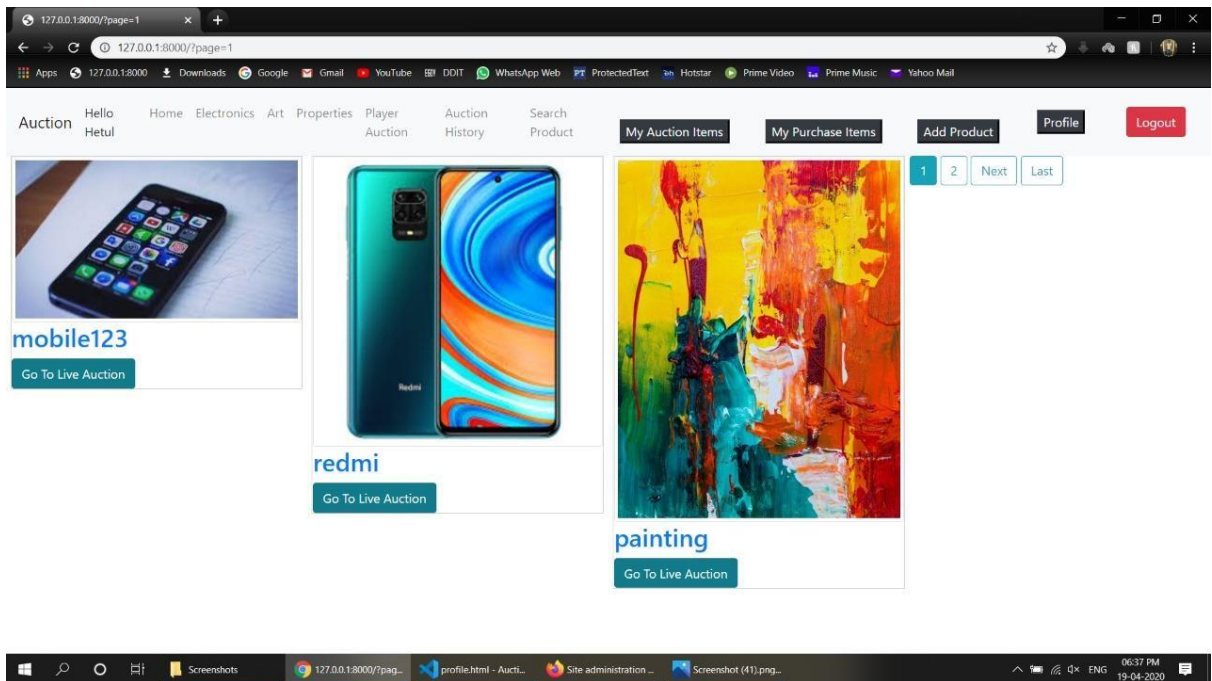
Minute: 0

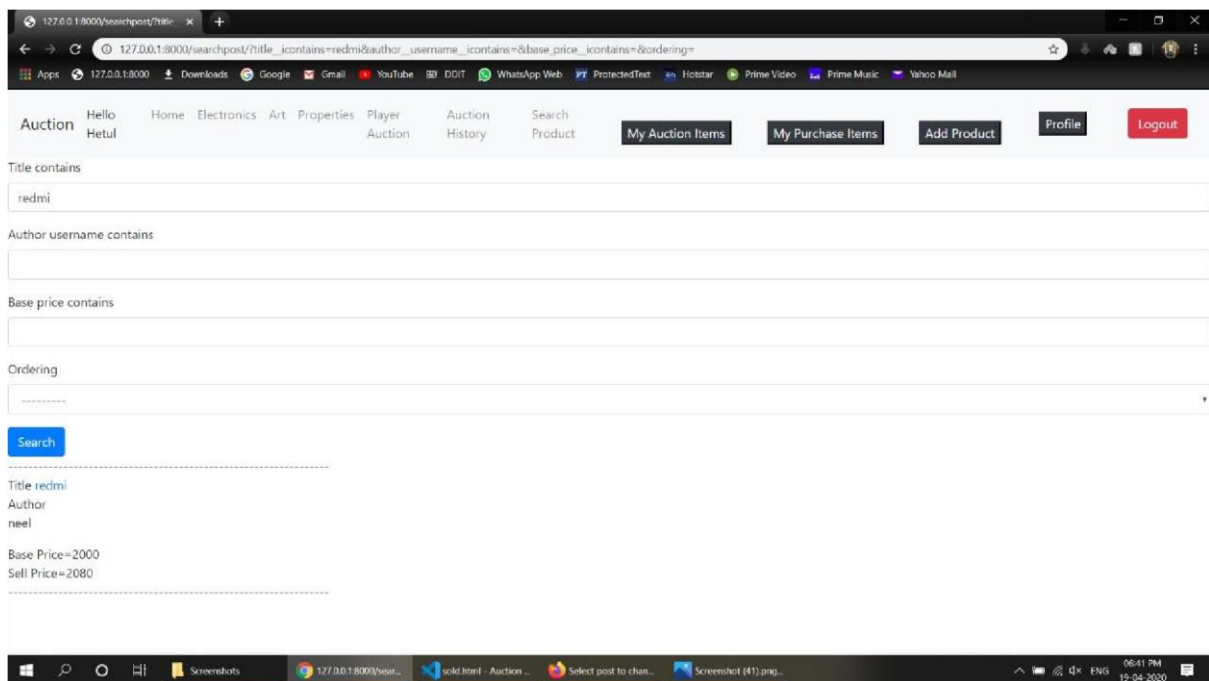
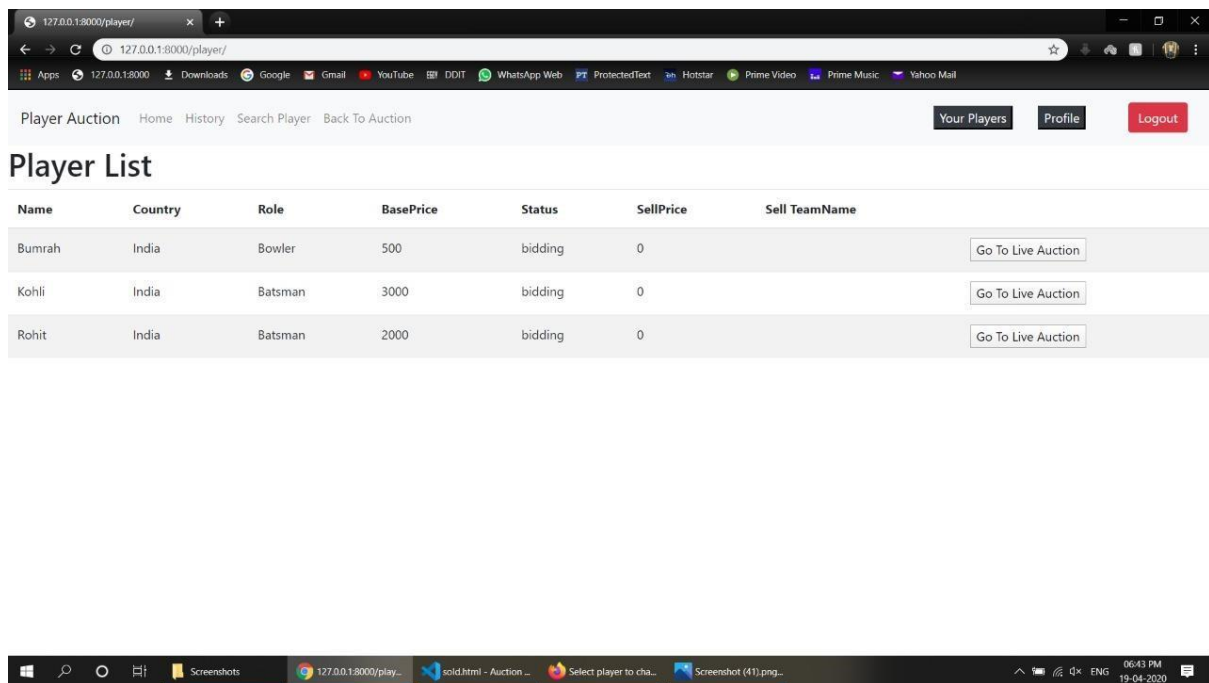
Neel (E) Auction neel\_document - W... redmi note 9 pro - ... views.py - Auction ... Add player | Djang...

04:57 PM 19-04-2020










127.0.0.1:8000/player/auction/num1=Kohli&inc=yes

Player Auction Home History Search Player Back To Auction

Your Players Profile Logout

## Player Name :- Kohli



Base Price 3000  
Raising Price 200  
Selling Team Name :-  
Hetul  
Selling Price 3200

Time Reamaning  
10d 5h 15m 38s

Raise Price

Windows taskbar: Screenshots, 127.0.0.1:8000/play..., sold.html - Auction..., Site administration..., Screenshot (41).png...

127.0.0.1:8000/player/ S3 Management Console

s3.console.aws.amazon.com/s3/buckets/auctionneel131/region=us-west-2

aws Services Resource Groups

Amazon S3 > auctionneel131

### auctionneel131

Overview Properties Permissions Management Access points

Q Type a prefix and press Enter to search. Press ESC to clear.

Upload Create folder Download Actions

US West (Oregon)

Viewing 1 to 4

Name	Last modified	Size	Storage class
player_pics	--	--	--
product_pics	--	--	--
profile_pics	--	--	--
default.jpg	Apr 5, 2020 1:16:48 AM GMT+0530	10.7 KB	Standard

Viewing 1 to 4

Feedback English (US) © 2008 - 2020 Amazon Internet Services Private Ltd. or its affiliates. All rights reserved. Privacy Policy Terms of Use

Windows taskbar: Screenshots, S3 Management Co..., sold.html - Auction..., Select player to che..., Screenshot (41).png...

## 7. Conclusion

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We have successfully implemented login, signup, change forgotten password, add new products, auction of the products and players, update products, update profile. We are able to store image on AWS S3 Buckets online. Admin can have access to all users, all the auction, can give special authority to users.

## 8. Limitations and Future Extension

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### 8.1 Limitation

If more than one user hits the raise price of the same product at the same time then our system fails. We have don't use any test cases that are mentation in Software Engineering. If the large amount of data that need to processed then also our system slows down. Our system doesn't have real world payment system for payments of real money through banks or online wallets.

## 8.2 Future Extension

- We want to host our website online on Heroku so that any one with internet access can use it.
- We want to implement payment gateway through banking so that our system work with real money.
- We will also want to provide better database system so that loading of the website will be much faster.
- We will provide some online cart type of mechanism.

## 9. Reference / Bibliography

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Following links and websites were referred during the development of this project.

- <https://docs.djangoproject.com/en/3.0/>
- <https://www.w3schools.com/w3css/>
- <https://www.w3schools.com/bootstrap4/default.asp>
- <https://getbootstrap.com/docs/4.0/components/navbar/>
- <https://www.youtube.com/watch?v=UmljXZlypDc&list=PLosiE80TeTtoQCKZ03TU5fNfx2UY6U4p>
- [https://www.youtube.com/watch?v=SlyxjRJ8VNY&list=PLsyebzWxl7r2ukVgTqlQcl1T0C2mza\\_u](https://www.youtube.com/watch?v=SlyxjRJ8VNY&list=PLsyebzWxl7r2ukVgTqlQcl1T0C2mza_u)
- [https://github.com/CoreyMSchafer/code\\_snippets/tree/master/Django\\_Blog](https://github.com/CoreyMSchafer/code_snippets/tree/master/Django_Blog)
- <https://stackoverflow.com/questions/tagged/django>