Dharmsinh 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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Dharamsinh Desai University, Nadiad

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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2)	**Kachhia Neel**	**CE052**	**17CEUOS121**
3)	**Khunt Deep**	**CE061**	**17CEUOG096**

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

Guide	HOD
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1. Abstract

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

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

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

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

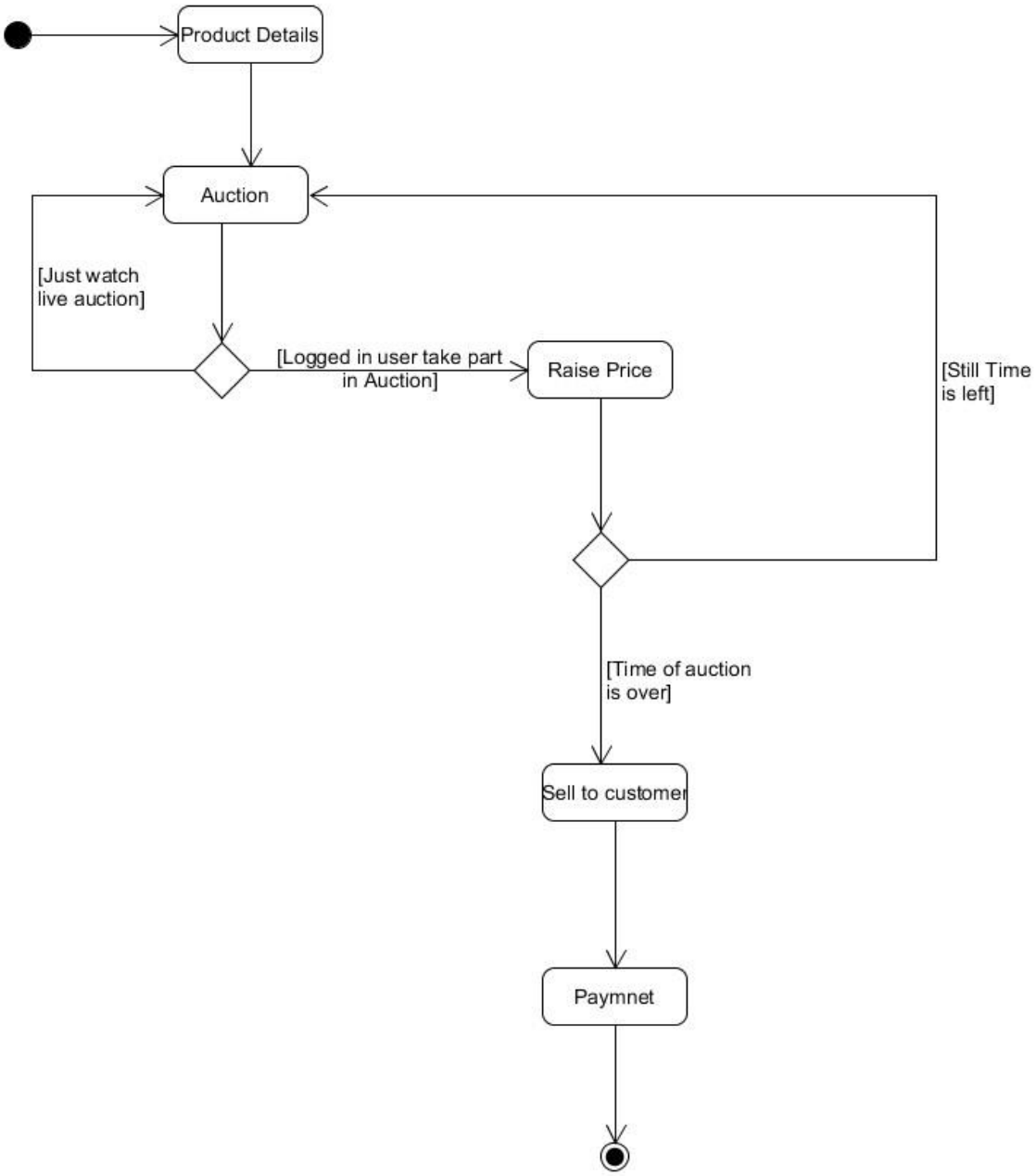
IP: make that user to authorize.

OP: mark that user authorize in data base.

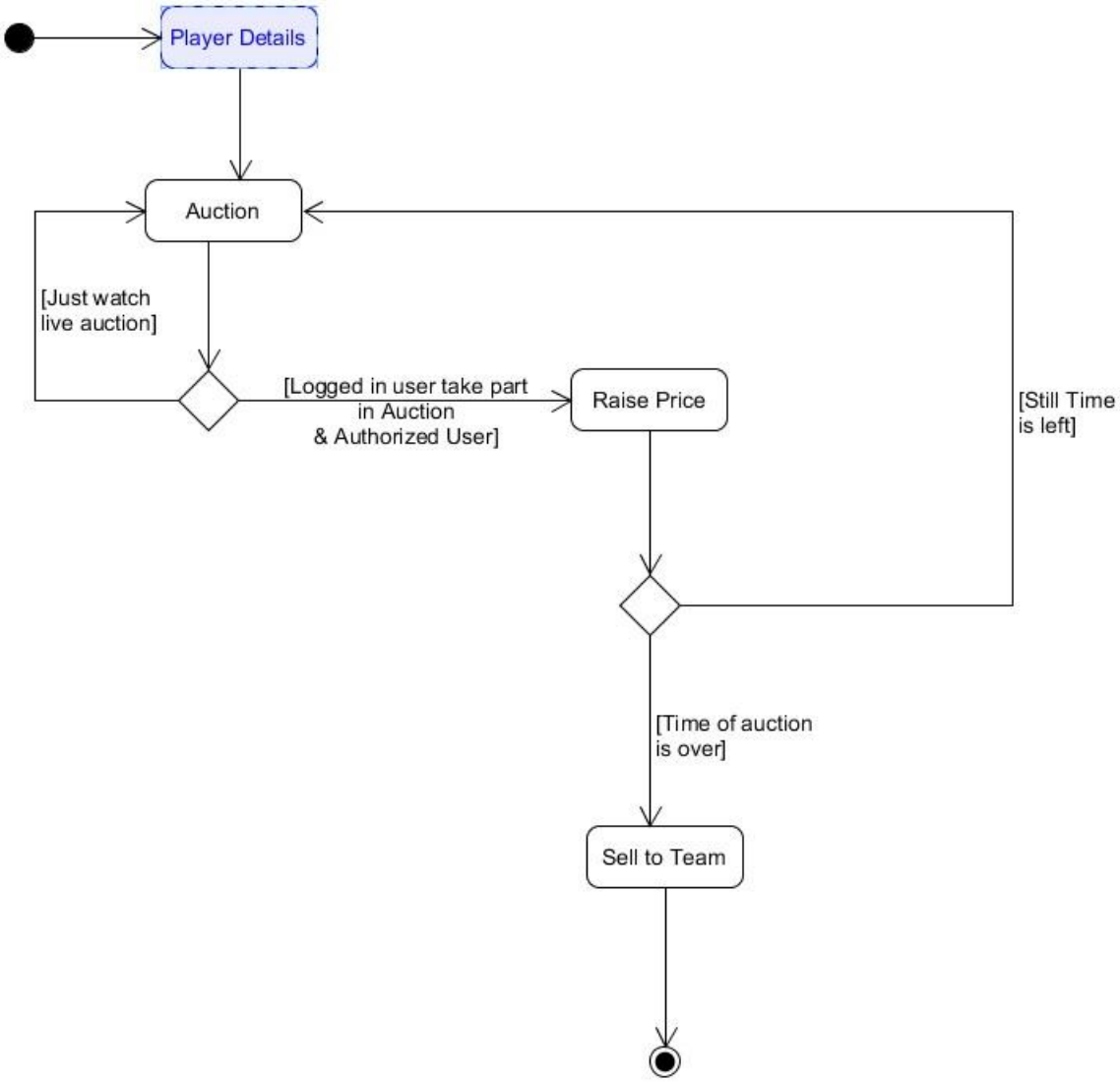
4. Design

Activity Diagrams

1) Product Auction

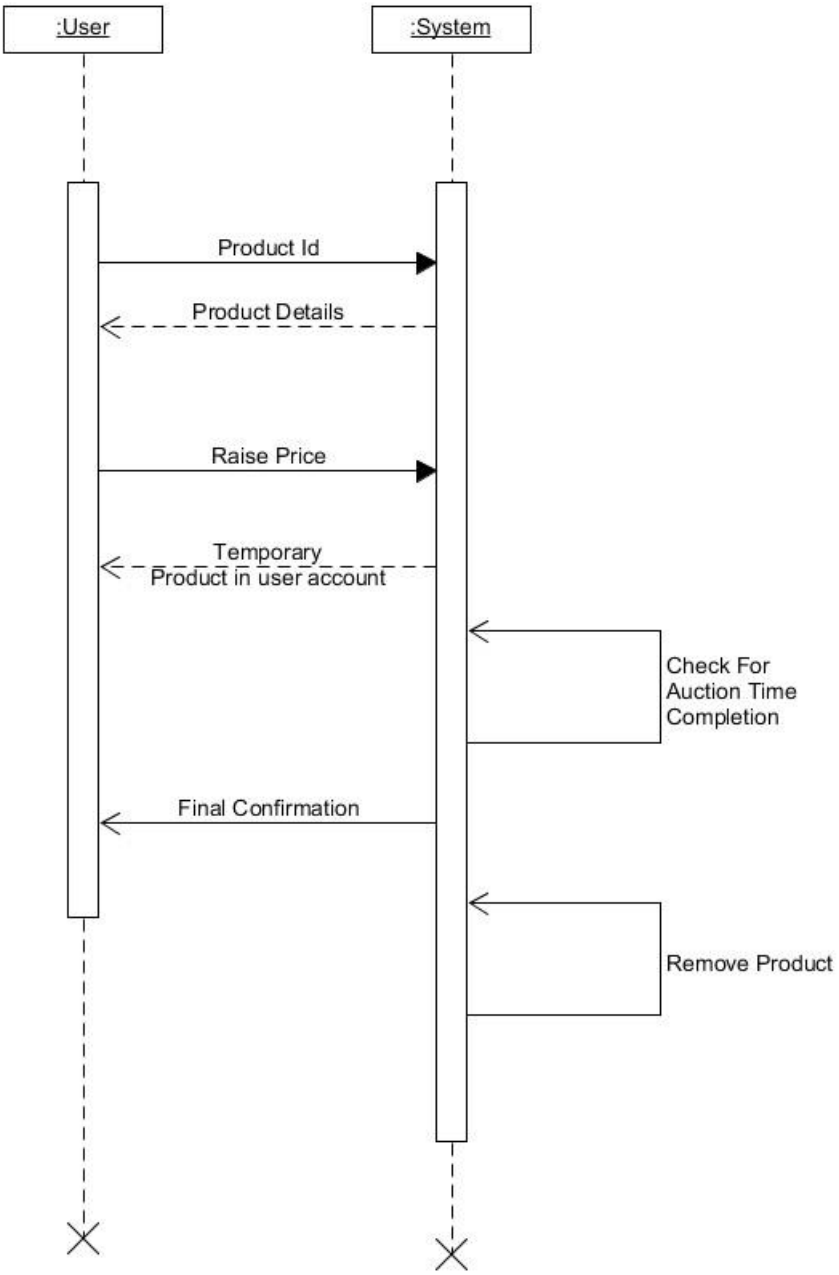


2) Player Auction

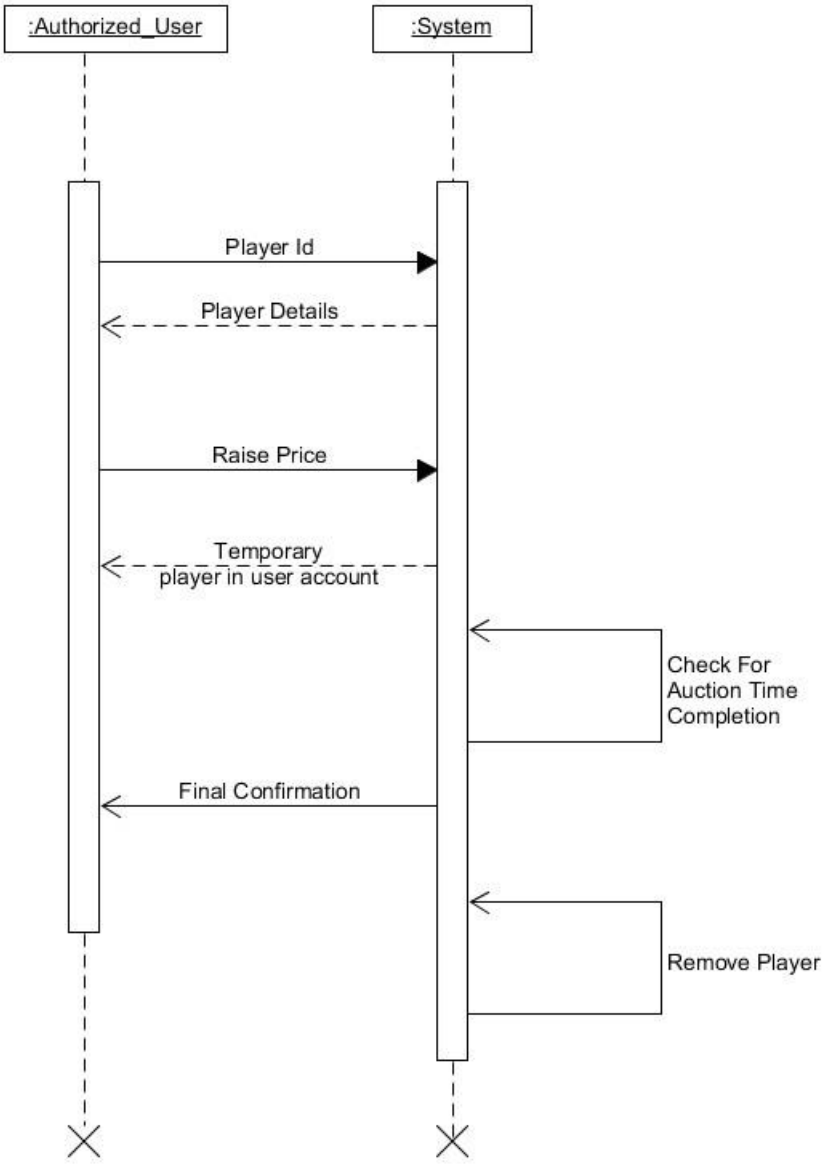


Sequence Diagrams

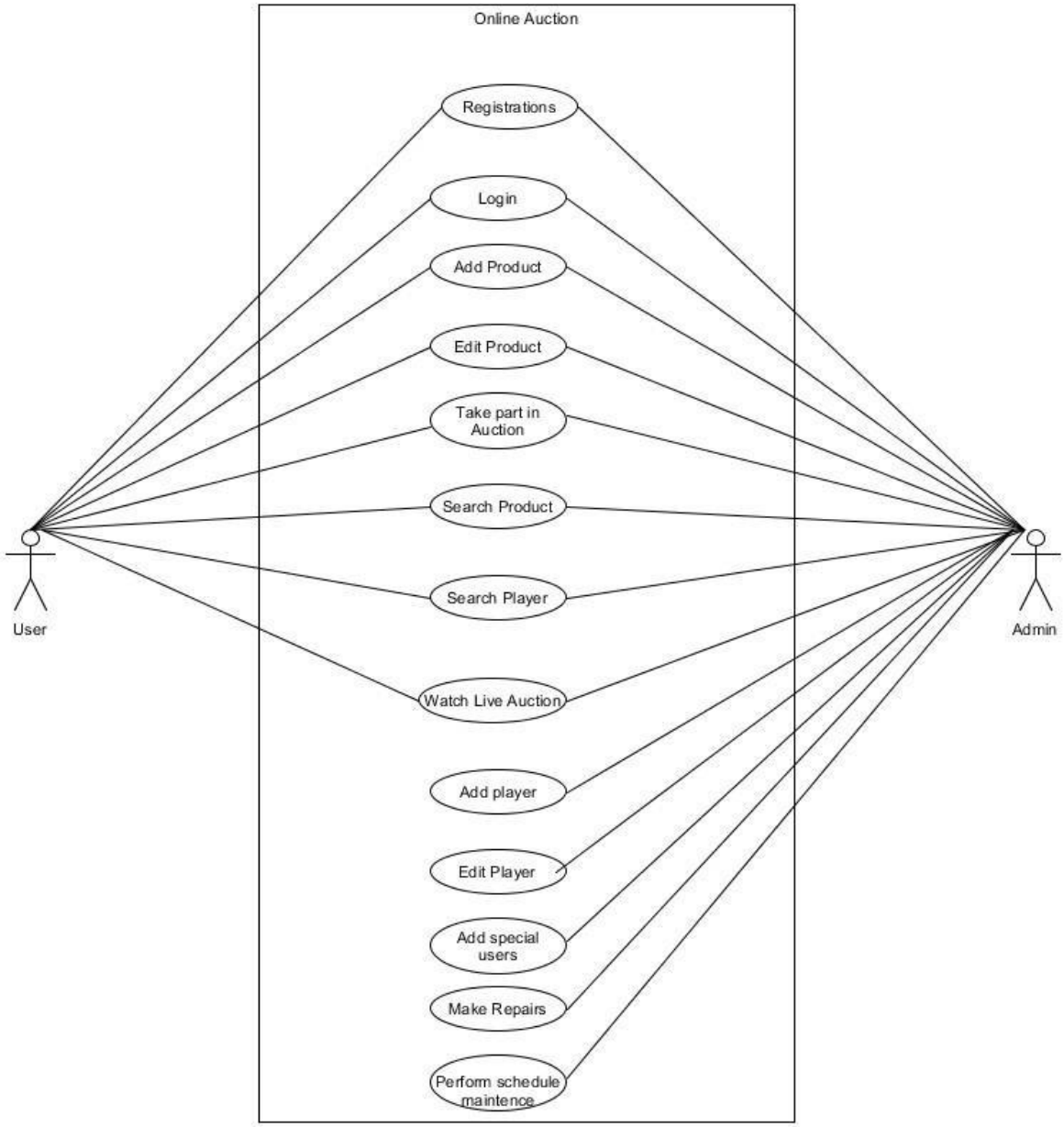
1)Product Auction



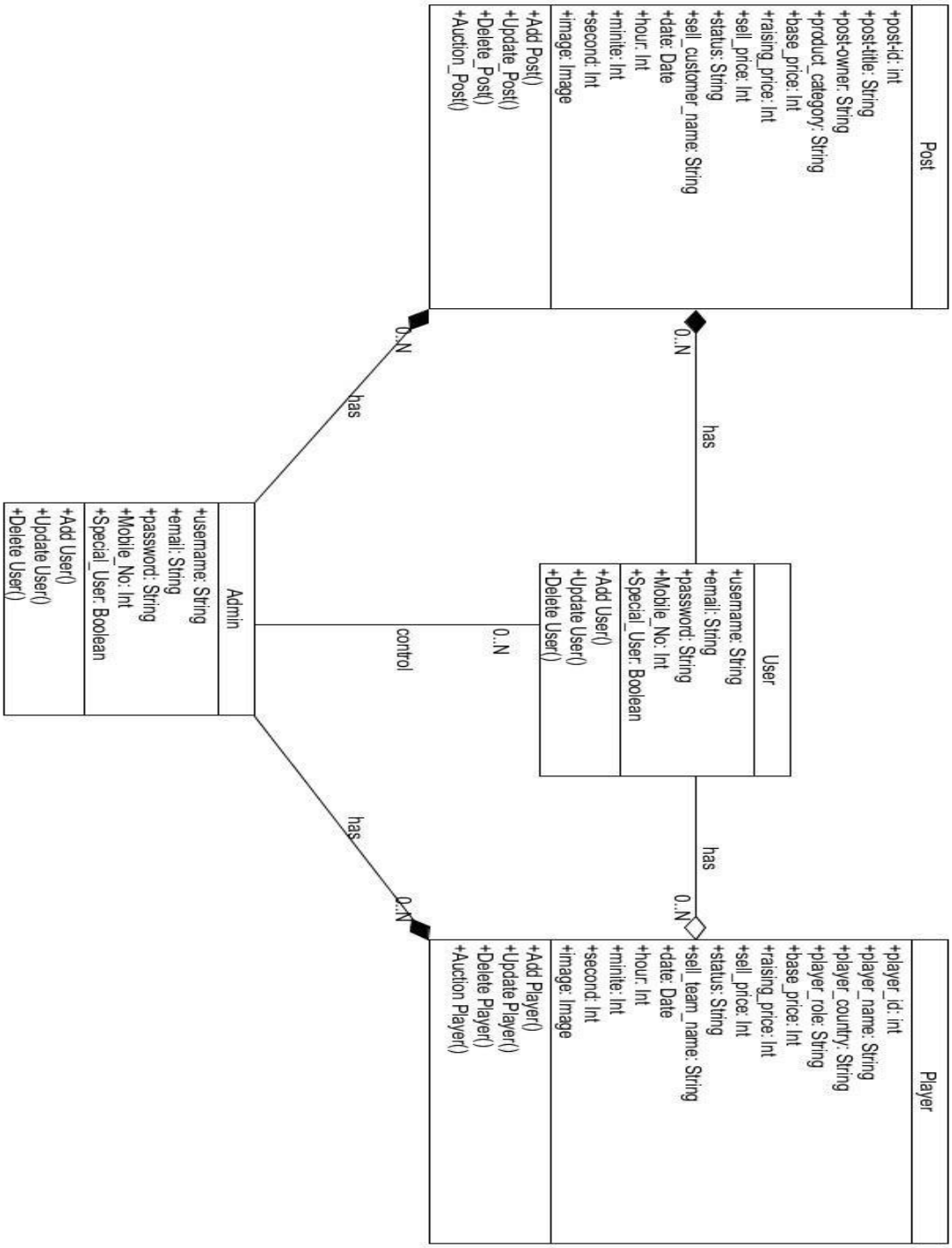
2)Player Auction


:Authorized_User
:System
Player Id
Player Details
Raise Price
Temporary
player in user account
Check For
Auction Time
Completion
Final Confirmation
Remove Player

Use-Case Diagram

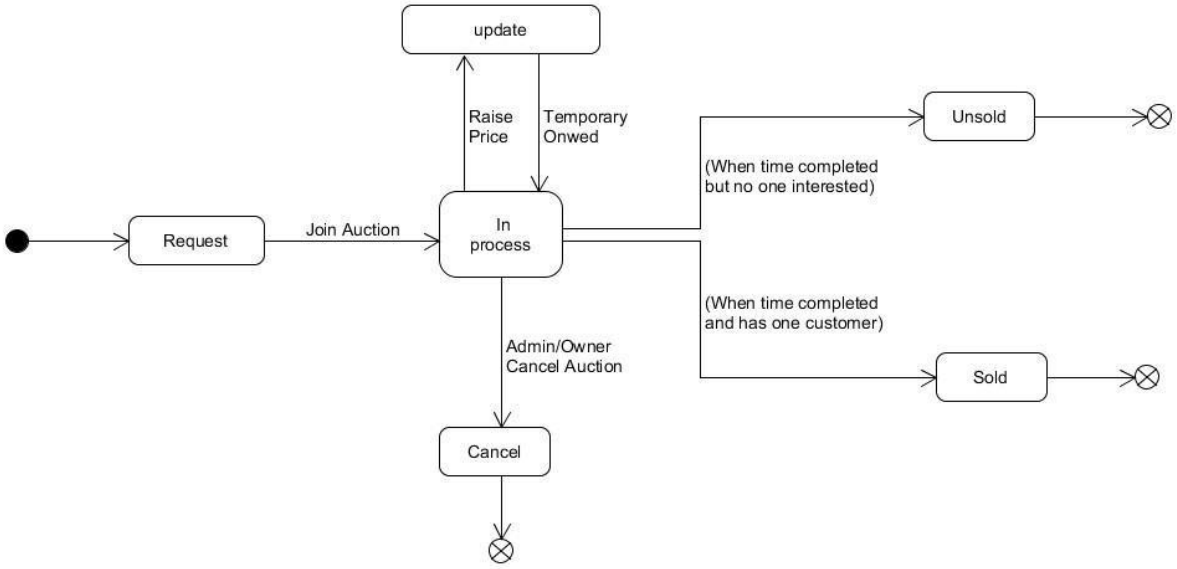


Class Diagram

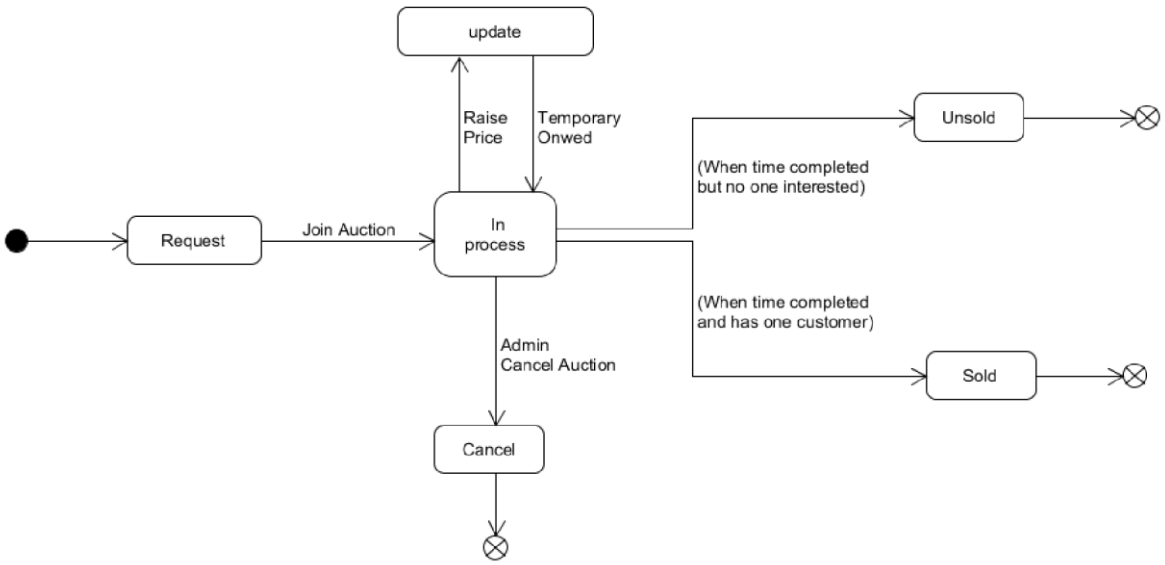


State Diagram

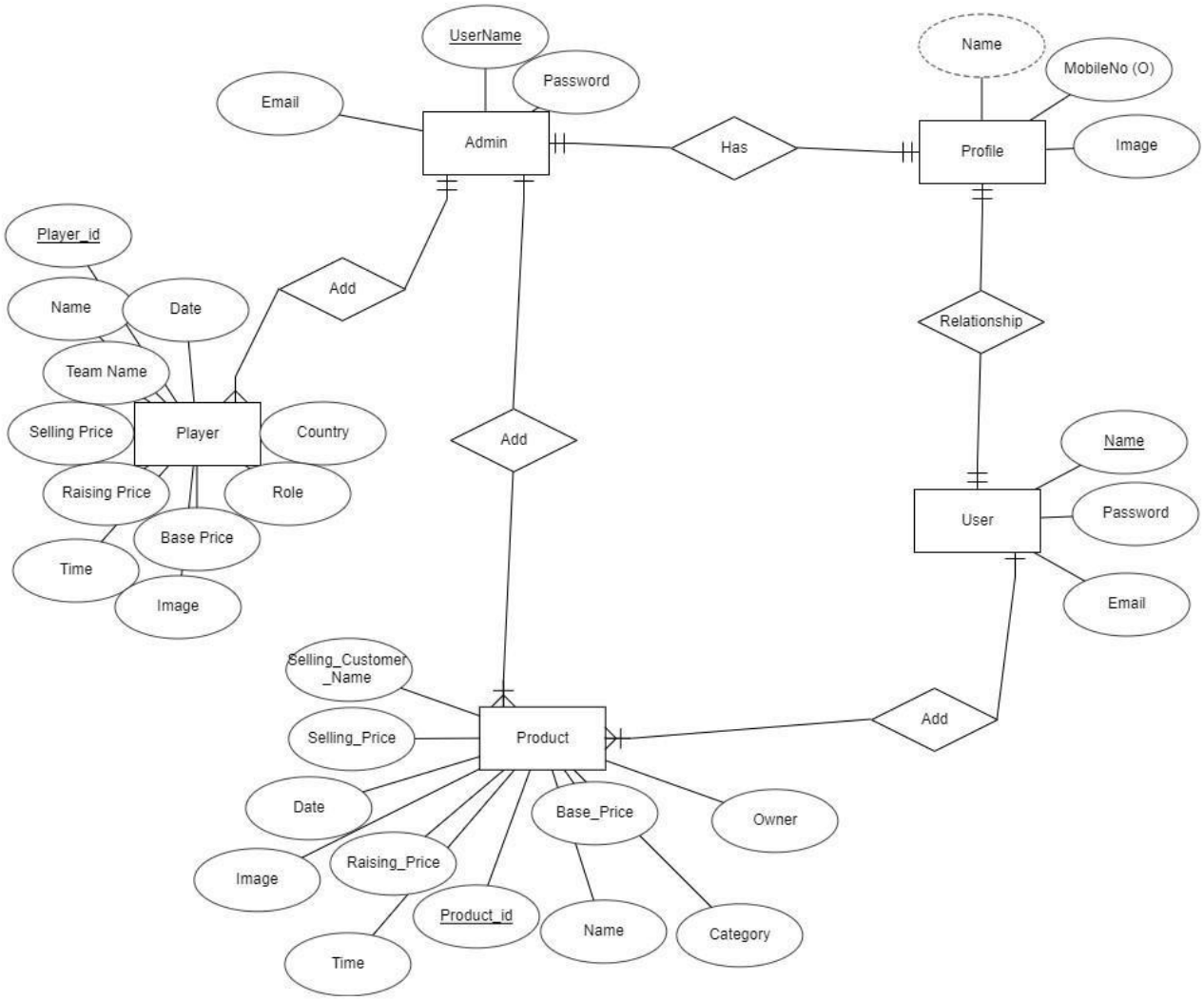
1) Products State Diagram



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	
6	raising_price	int	12	Yes	No	No	
7	sell_price	int	12	Yes	No	No	
8	sell_customerName	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	

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

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.

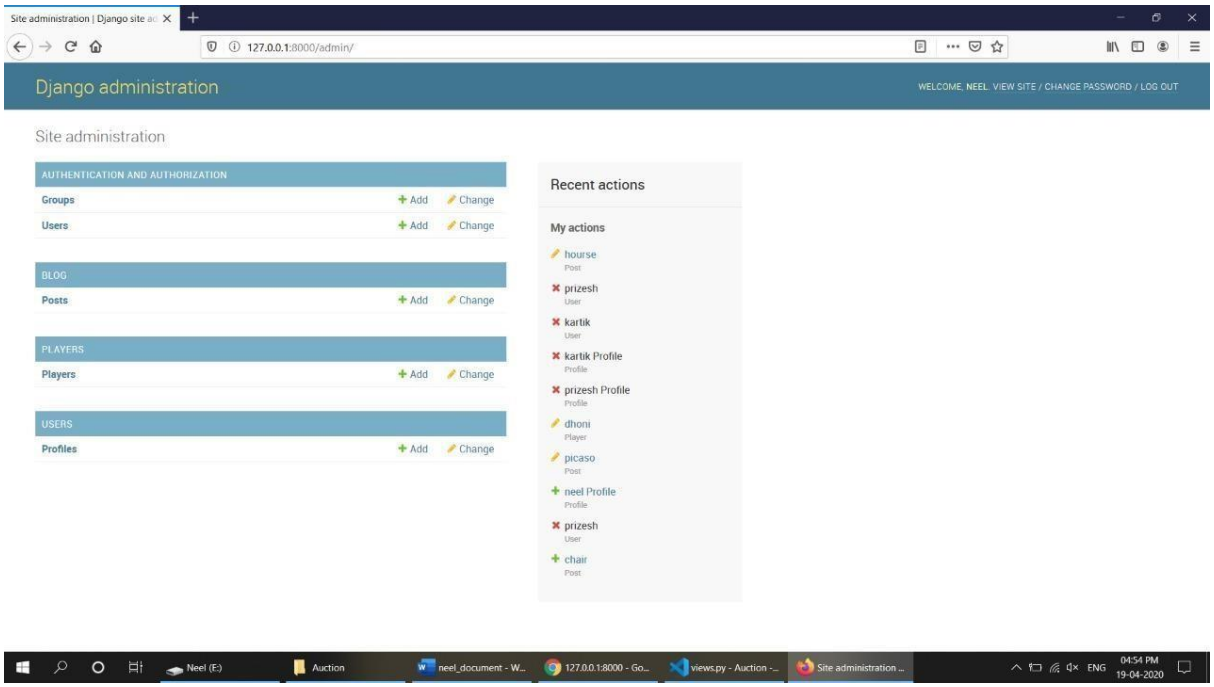
9)Your Players

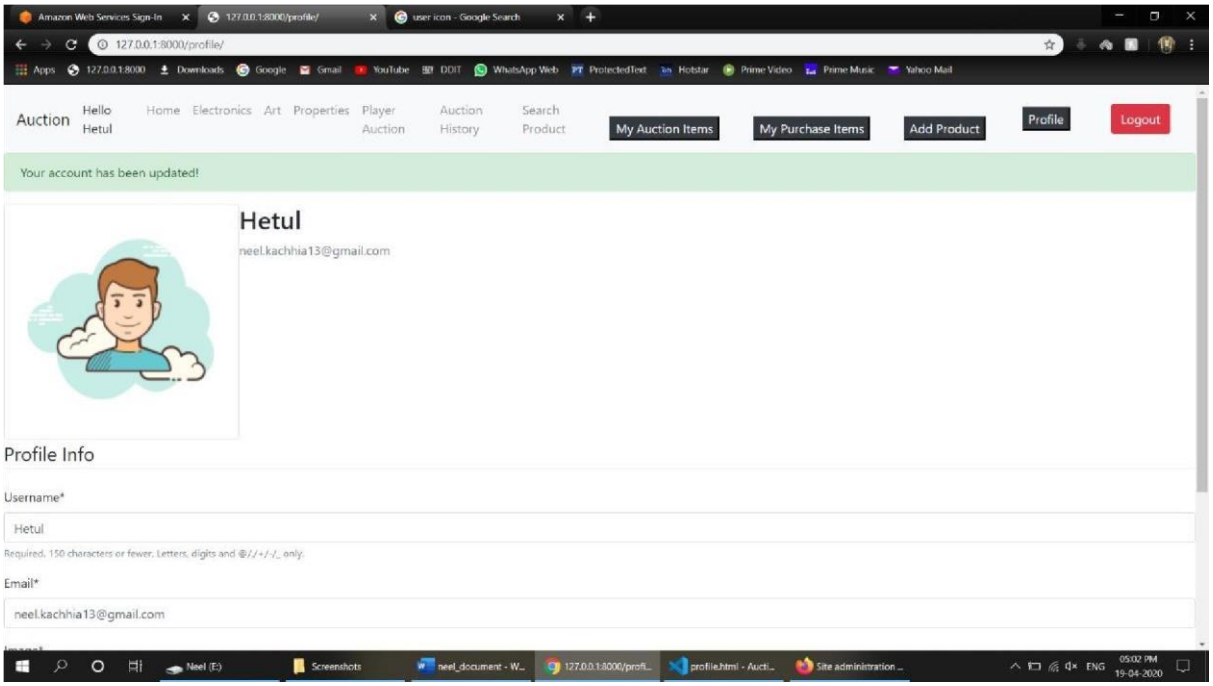
It will display the batsman, bowlers, allrounders of the user that they have bought during the auction.

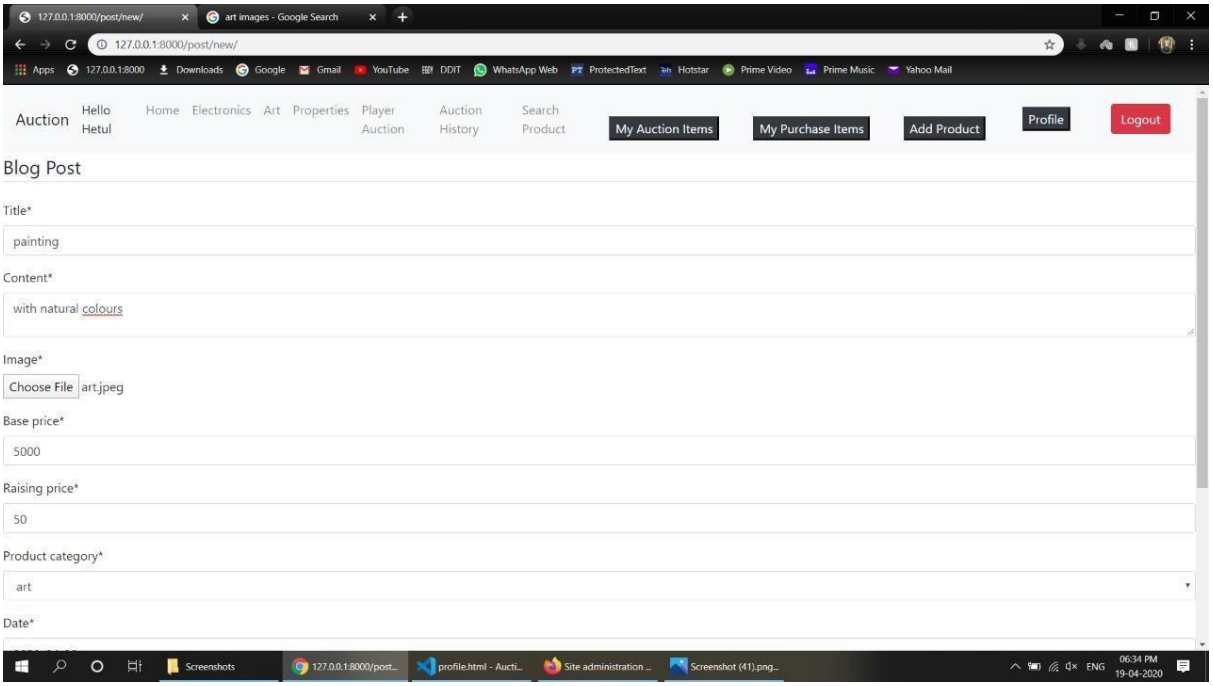
10) Add Product

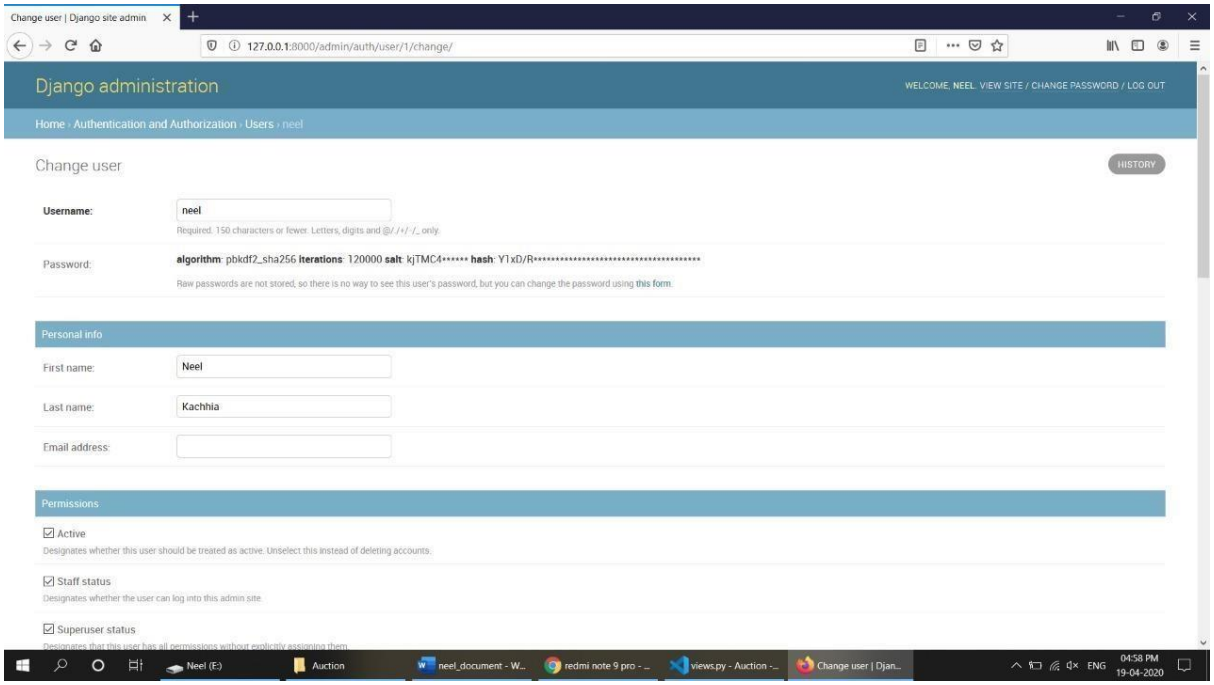
This function will provide functionality to user to add products in the online auction. User need to provide all the details of the product.

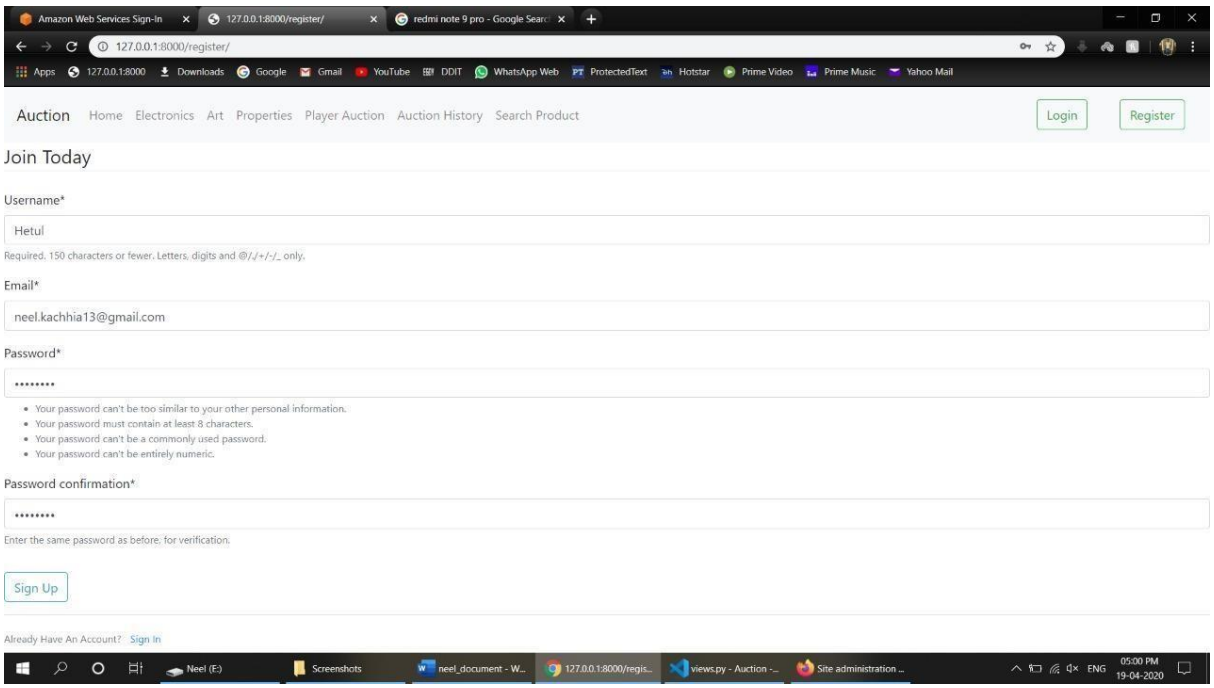
6. Screenshots

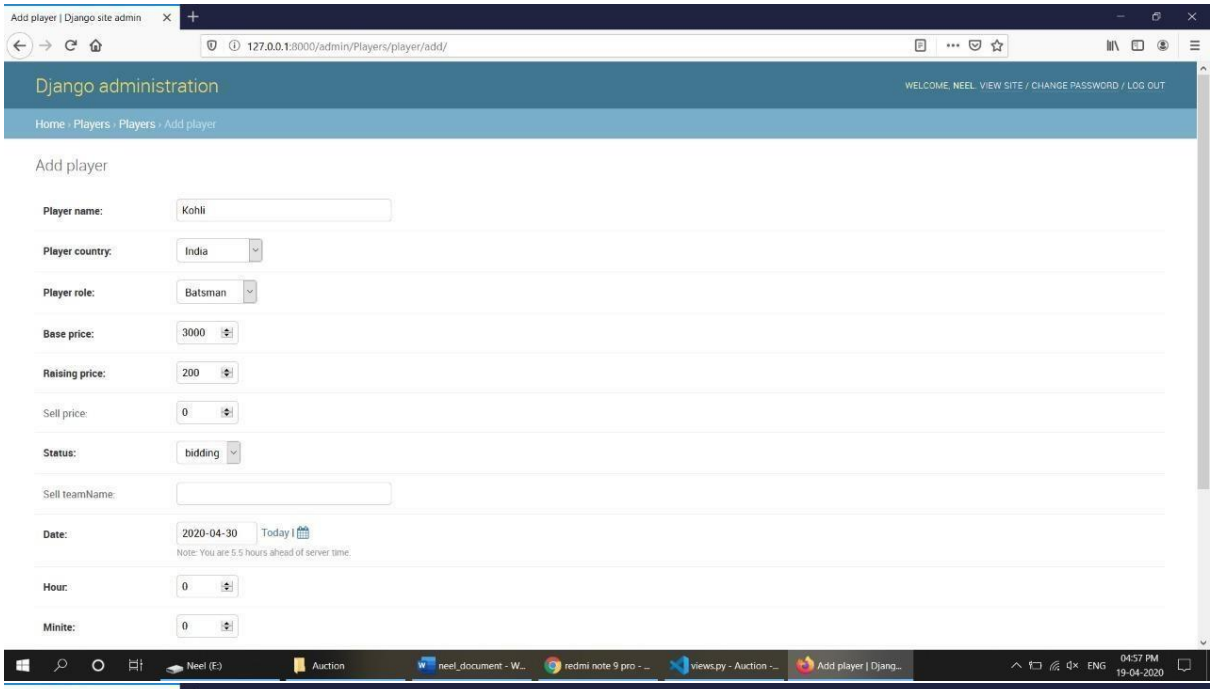


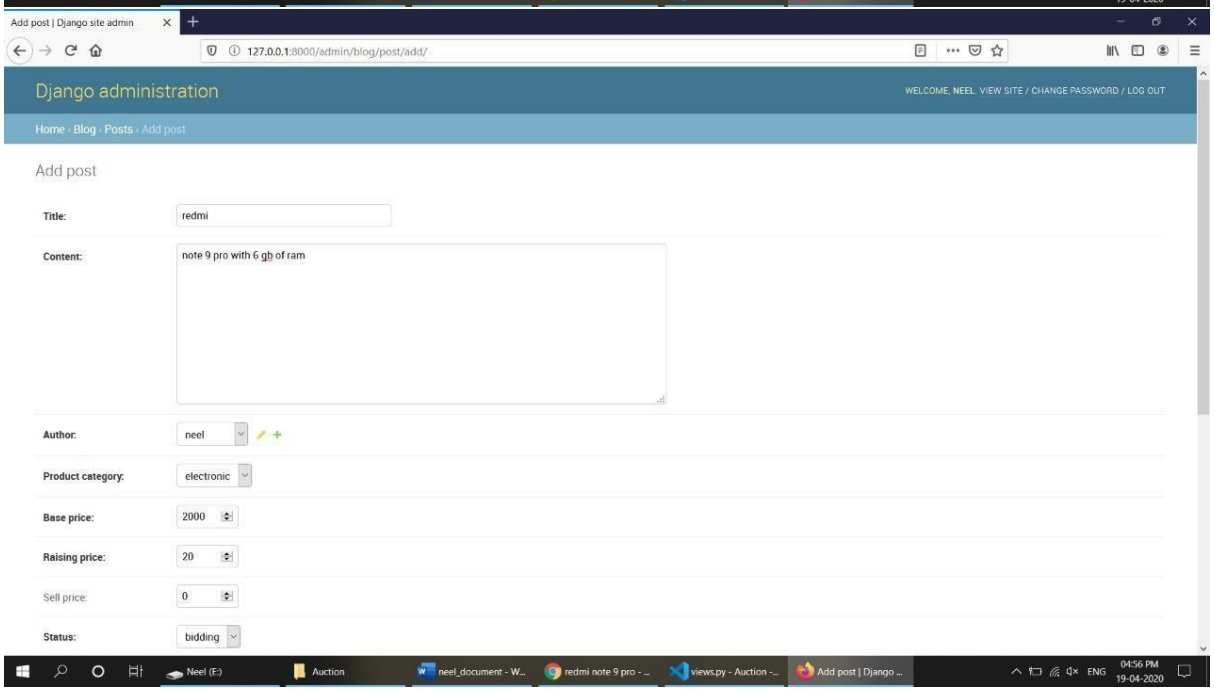

Auction
Hello Hetul
Home
Electronics
Art
Properties
Player Auction
Auction History
Search Product
My Auction Items
My Purchase Items
Add Product
Profile
Logout
Your account has been updated!
Hetul
neel.kachhia13@gmail.com
Profile Info
Username*
Hetul
Email*
neel.kachhia13@gmail.com

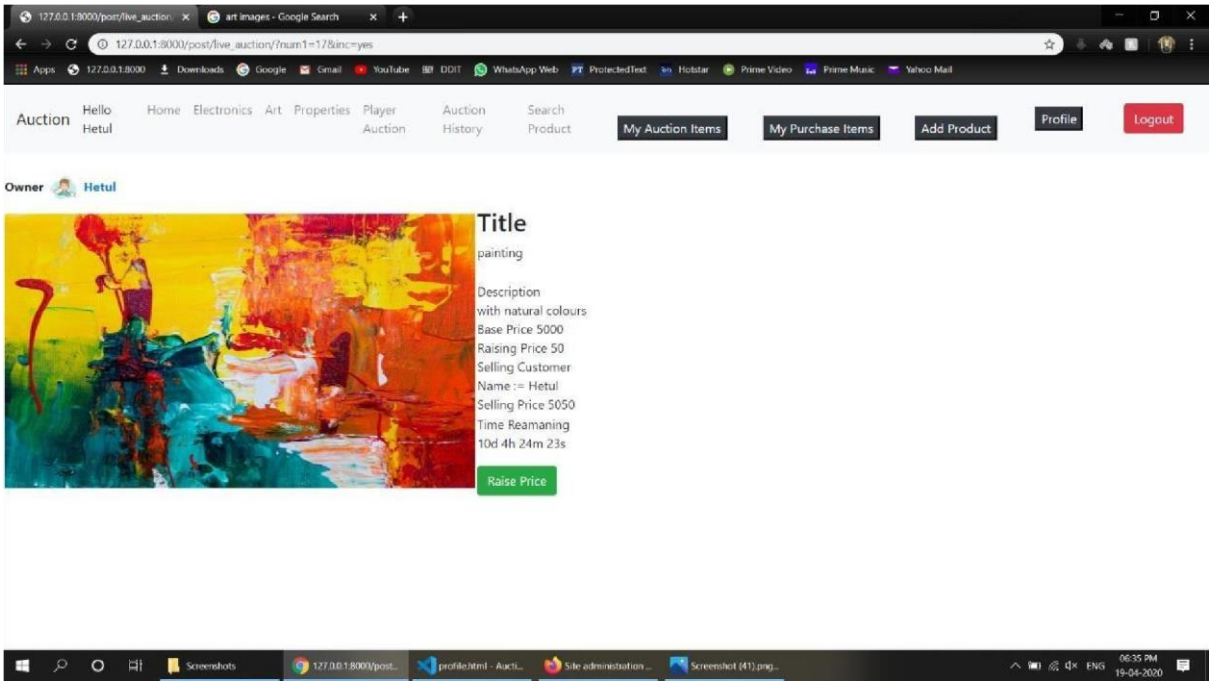

Auction
Hello Hetul
Home
Electronics
Art
Properties
Player Auction
Auction History
Search Product
My Auction Items
My Purchase Items
Add Product
Profile
Logout
Blog Post
Title*
painting
Content*
with natural colours
Image*
Choose File
art.jpeg
Base price*
5000
Raising price*
50
Product category*
art
Date*

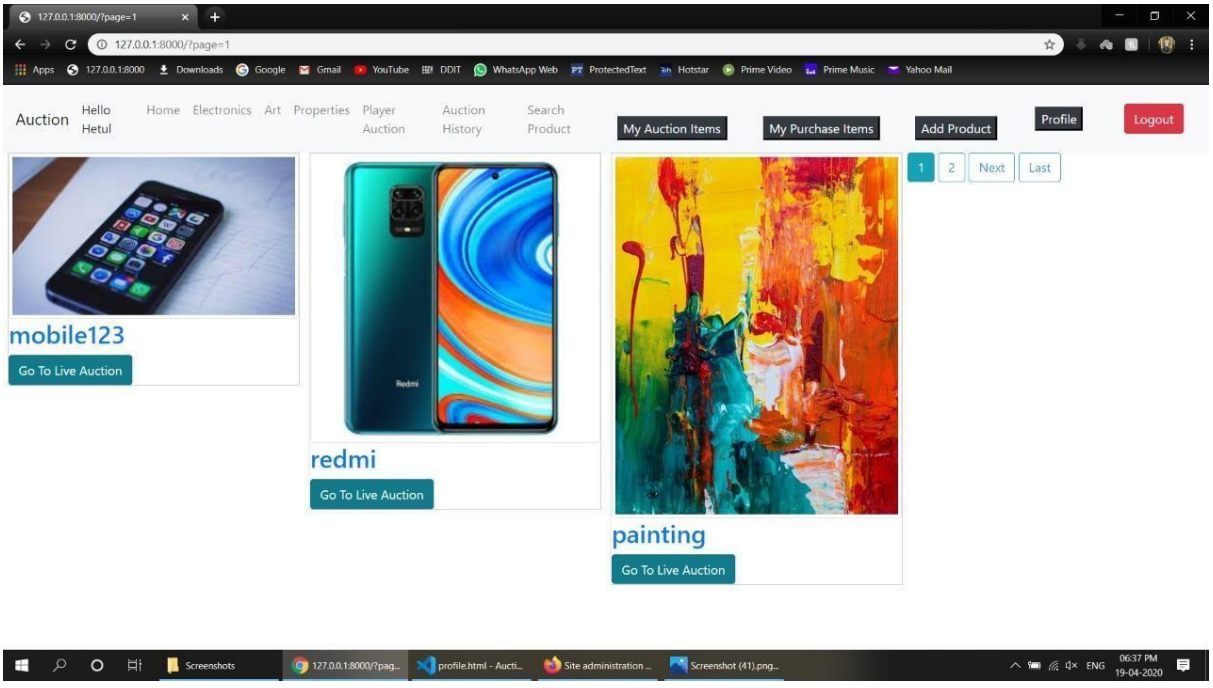

Change user | Django site admin
127.0.0.1:8000/admin/auth/user/1/change/
Django administration
WELCOME, NEEL. VIEW SITE / CHANGE PASSWORD / LOG OUT
Home › Authentication and Authorization › Users › neel
Change user
HISTORY
Username:
neel
Password:
Raw passwords are not stored, so there is no way to see this user's password, but you can change the password using this form.
Personal info
First name:
Neel
Last name:
Kachhia
Email address:
Permissions
Active
Designates whether this user should be treated as active. Unselect this instead of deleting accounts.
Staff status
Designates whether the user can log into this admin site.
Superuser status

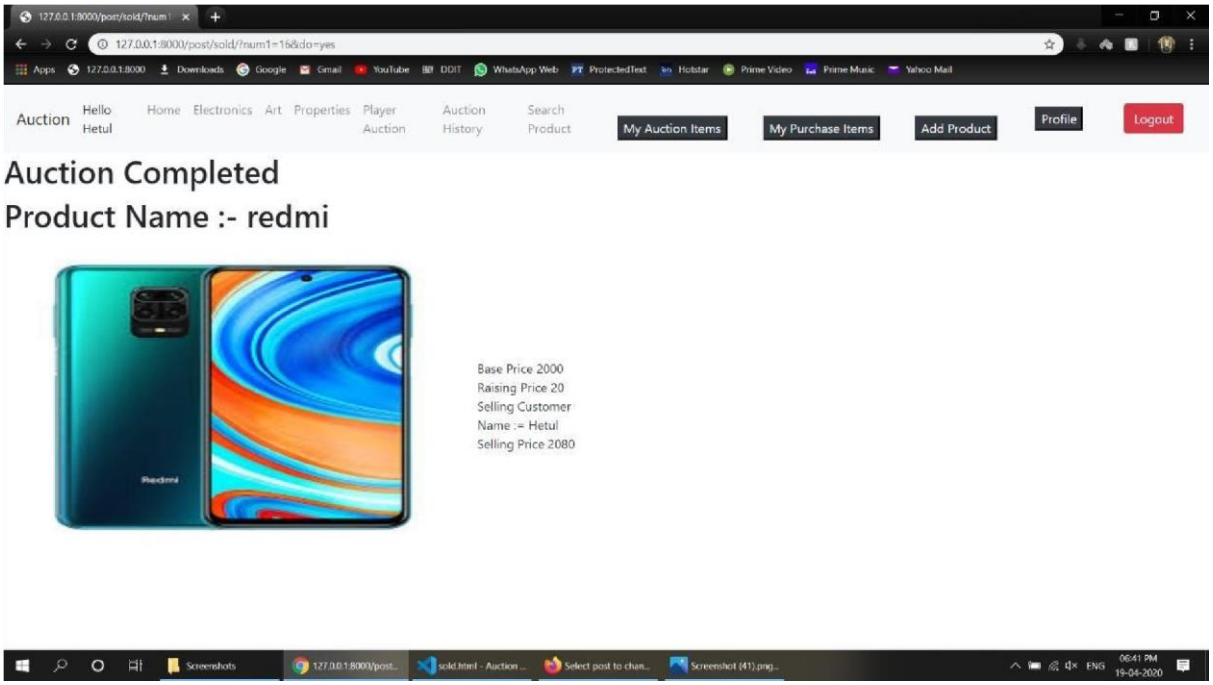

Amazon Web Services Sign-In
127.0.0.1:8000/register/
redmi note 9 pro - Google Search
Auction
Home
Electronics
Art
Properties
Player Auction
Auction History
Search Product
Login
Register
Join Today
Username*
Hetul
Required. 150 characters or fewer. Letters, digits and @/./+/-/_ only.
Email*
neel.kachhia13@gmail.com
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

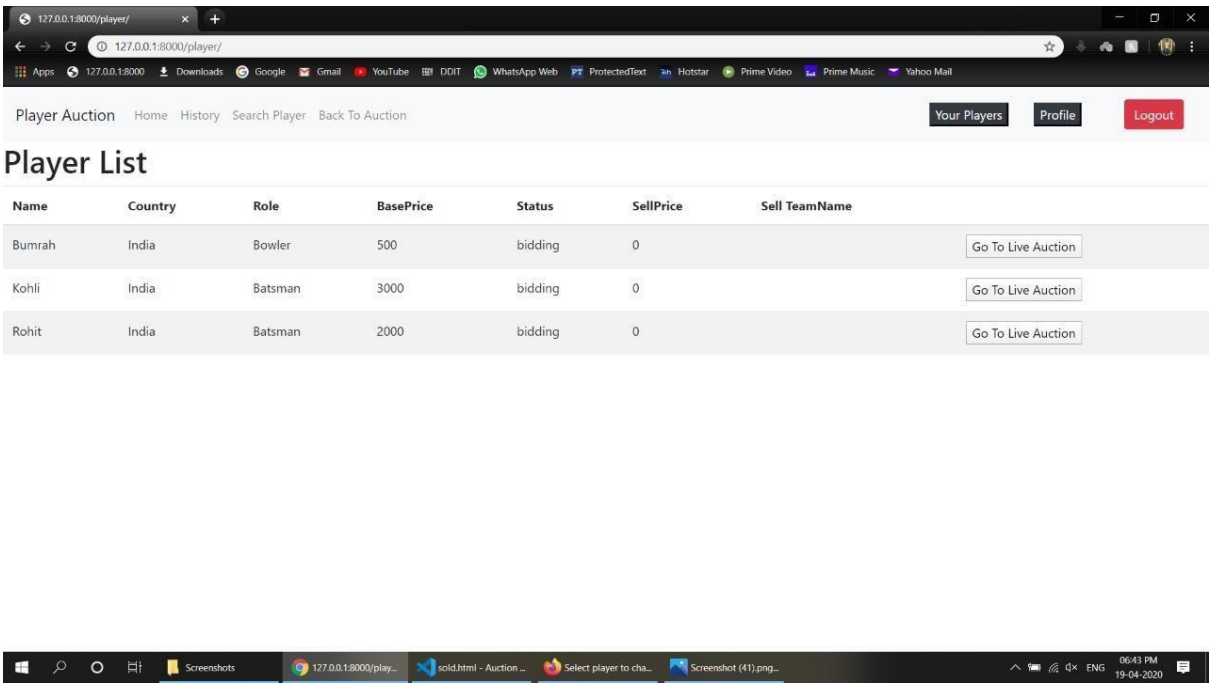

Add player | Django site admin
127.0.0.1:8000/admin/Players/player/add/
Django administration
WELCOME, NEEL. VIEW SITE / CHANGE PASSWORD / LOG OUT
Home › Players › Players › Add player
Add player
Player name: Kohli
Player country: India
Player role: Batsman
Base price: 3000
Raising price: 200
Sell price: 0
Status: bidding
Sell teamName:
Date: 2020-04-30 Today |
Note: You are 5.5 hours ahead of server time.
Hour: 0
Minite: 0

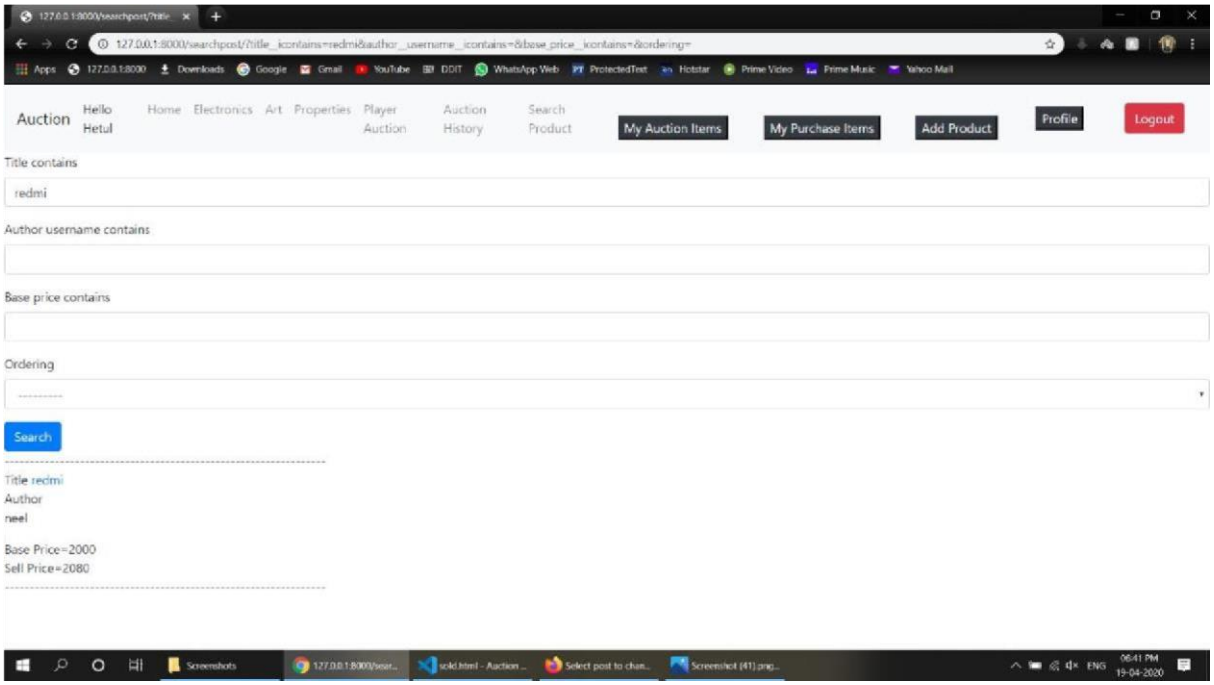

Add post | Django site admin
127.0.0.1:8000/admin/blog/post/add/
Django administration
WELCOME, NEEL. VIEW SITE / CHANGE PASSWORD / LOG OUT
Home › Blog › Posts › Add post
Add post
Title: redmi
Content: note 9 pro with 6 gb of ram
Author: neel
Product category: electronic
Base price: 2000
Raising price: 20
Sell price: 0
Status: bidding

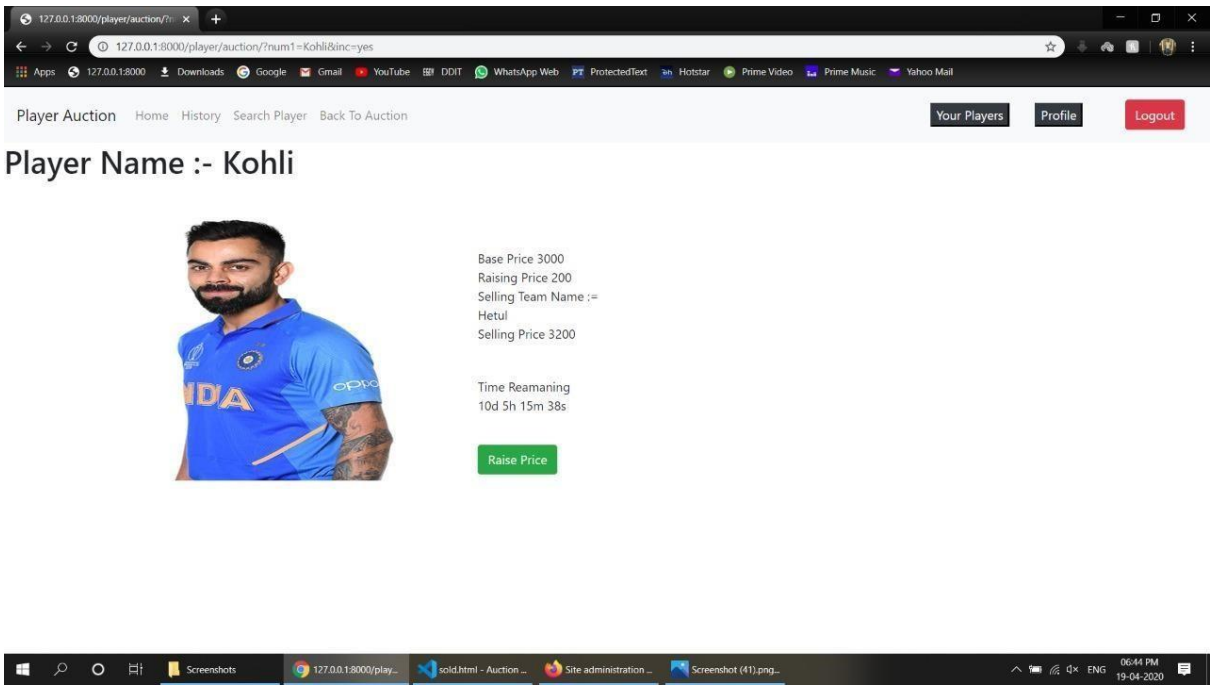

Auction
Hello Hetul
Home
Electronics
Art
Properties
Player Auction
Auction History
Search Product
My Auction Items
My Purchase Items
Add Product
Profile
Logout
Owner
Hetul
Title
painting
Description
with natural colours
Base Price 5000
Raising Price 50
Selling Customer Name := Hetul
Selling Price 5050
Time Reamaning
10d 4h 24m 23s
Raise Price

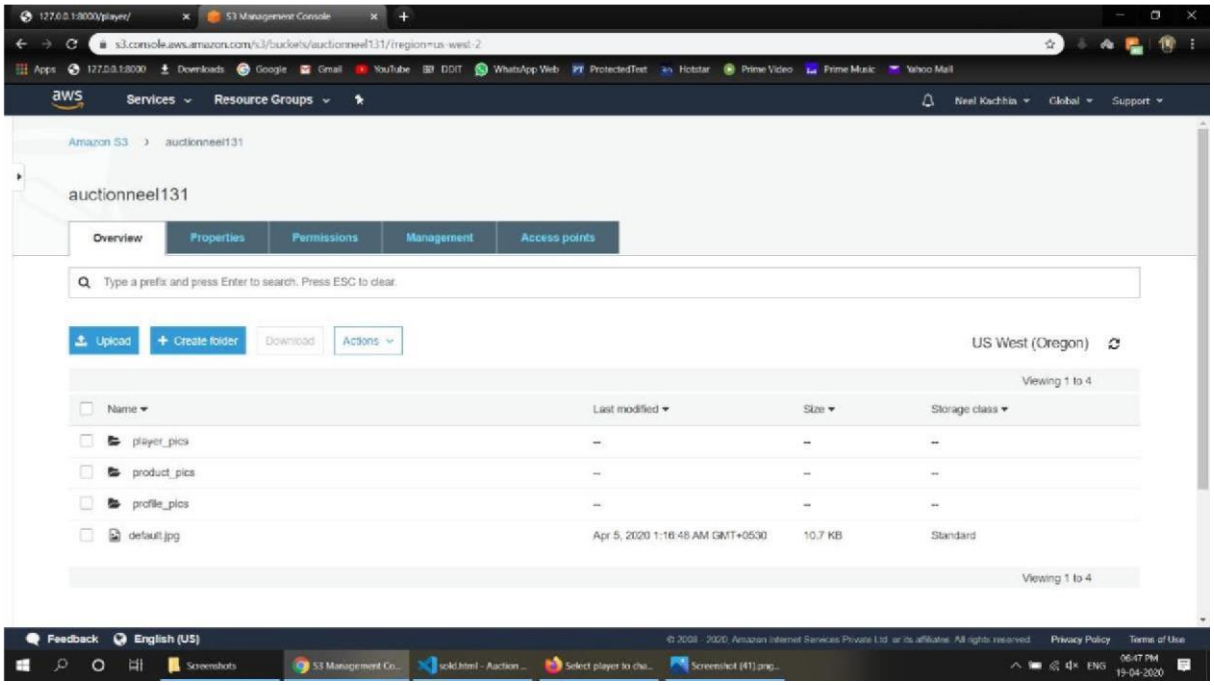

Auction
Hello Hetul
Home
Electronics
Art
Properties
Player Auction
Auction History
Search Product
My Auction Items
My Purchase Items
Add Product
Profile
Logout
mobile123
Go To Live Auction
redmi
Go To Live Auction
painting
Go To Live Auction
1
2
Next
Last


127.0.0.1:8000/post/sold/?num1=16&do=yes
Auction
Hello Hetul
Home
Electronics
Art
Properties
Player Auction
Auction History
Search Product
My Auction Items
My Purchase Items
Add Product
Profile
Logout
Auction Completed
Product Name :- redmi
Base Price 2000
Raising Price 20
Selling Customer Name :- Hetul
Selling Price 2080


127.0.0.1:8000/player/
Player Auction
Home
History
Search Player
Back To Auction
Your Players
Profile
Logout
Player List
Name
Country
Role
BasePrice
Status
SellPrice
Sell TeamName
Bumrah
India
Bowler
500
bidding
0
Kohli
India
Batsman
3000
bidding
0
Rohit
India
Batsman
2000
bidding
0
Go To Live Auction


Auction
Hello Hetul
Home
Electronics
Art
Properties
Player Auction
Auction History
Search Product
My Auction Items
My Purchase Items
Add Product
Profile
Logout
Title contains
redmi
Author username contains
Base price contains
Ordering
Search
Title redmi
Author
neel
Base Price=2000
Sell Price=2080


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



7. Conclusion

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

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

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=UmljXZIypDc&list=PLosiE80TeTtoQCKZ03TU5fNfx2UY6U4p
- https://www.youtube.com/watch?v=SIyxjRJ8VNY&list=PLsyeobzWxl7r2ukVgTqlQcl1T0C2mzau
- https://github.com/CoreyMSchafer/code_snippets/tree/master/Django_Blog
- https://stackoverflow.com/questions/tagged/django