

Acknowledgement

No Art is ever complete without the Master artist’s touches. And to the Master of Masters **BHAGAWAN SRI SATHYA SAI BABA**, I offer my deep sense of gratitude. The wonderful faculty in the school that are handpicked by HIM have been or pillars of support throughout this journey.

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# Aim

To create a basic Auction Software using socket programming from Python.

# Introduction

An auction that can be held across different computers in a same network is something that can never be dreamt of because no one would have got that idea. This software is designed and coded for that purpose of bidding in an auction right in your homes in your computer. With just a click you can bid for anything , you can be someone who is auctioning something or you can be taking part in some auction started by someone. You can add a new item you want to auction along with the description to it .Everything has an end so is the item which is getting auctioned if its not auctioned in a particular time then you will lose the opportunity of acquiring it.

# WHY is it necessary?

It provides the necessary tools for sellers to list items, buyers to bid on them, and administrators to monitor them. The software **helps automate the bidding process**, allowing buyers to bid from any location at a given time without having to be physically present at the auction

# How does it work?

Firstly if you want to auction a product you need to add that item to the products using an ADD ITEM feature available in the software, Next you need to go to the auction page in the software search up the item you would like to auction and click on the start auction button in that page and the starts the server and waits for clients to join after the waiting is done once the minimum number of clients is reached then the auction starts and then you can happily enjoy bidding.

# Scope of the project

This software is designed to reduce the pressure of people taking part in an auction to go to a particular place then bid for the item they can do it at ease sitting in their own houses. Our software enables you to have an auction amongst any number of people at once. It is efficient enough to give everyone a smooth experience you can save a lot of time and money using this software.

# Softwares & Libraries

* **PyCharm Community Edition 2023.3.3**

PyCharm is an integrated development surroundings (IDE) used for programming in Python. It is advanced by means of the Czech organization JetBrains and is to be had for Windows, mac OS, and Linux. PyCharm is to be had in two variations: Community Edition and Professional Edition. The Community Edition is loose and open supply, while the Professional Edition is a paid subscription carrier.

* **Python 3.12**

Python is a set of instructions that we give in the form of a Program to our computer to perform any specific task. It is a Programming language having properties like it is interpreted, object-oriented and it is high-level too. Due to its beginner-friendly syntax, it became a clear choice for beginners to start their programming journey. The major focus behind creating it is **making it easier for developers to read and understand, also reducing the lines of code.**

* **PyQt5**

PyQt5 is a set of Python bindings for the Qt application framework, allowing Python to be used for cross-platform desktop and mobile application development. It provides tools to create user interfaces that can run on various operating systems, including Windows, mac OS, Linux, iOS, and Android.

* **Sys**

The **sys module**in [Python](https://www.geeksforgeeks.org/python-programming-language/) provides various functions and variables that are used to manipulate different parts of the Python runtime environment. It allows operating on the interpreter as it provides access to the variables and functions that interact strongly with the interpreter.

* **QtDesigner**

[**Qt Designer** is a **tool for designing and building graphical user interfaces (GUIs) with Qt Widgets**](https://www.bing.com/ck/a?!&&p=30f7f961d728b012JmltdHM9MTcyODY5MTIwMCZpZ3VpZD0wZjcwMTZkNi0xZTU2LTZmMDMtM2FmMC0wMjgzMWYzZjZlZDkmaW5zaWQ9NTc5Nw&ptn=3&ver=2&hsh=3&fclid=0f7016d6-1e56-6f03-3af0-02831f3f6ed9&psq=what%27s+qt+Designer&u=a1aHR0cHM6Ly9kb2MucXQuaW8vcXQtNi9xdGRlc2lnbmVyLW1hbnVhbC5odG1s&ntb=1). [It provides a **what-you-see-is-what-you-get (WYSIWYG) interface** to create GUIs for PyQt applications by dragging and dropping QWidget objects on an empty form](https://www.bing.com/ck/a?!&&p=284df4516d4aa2dfJmltdHM9MTcyODY5MTIwMCZpZ3VpZD0wZjcwMTZkNi0xZTU2LTZmMDMtM2FmMC0wMjgzMWYzZjZlZDkmaW5zaWQ9NTgwMA&ptn=3&ver=2&hsh=3&fclid=0f7016d6-1e56-6f03-3af0-02831f3f6ed9&psq=what%27s+qt+Designer&u=a1aHR0cHM6Ly9yZWFscHl0aG9uLmNvbS9xdC1kZXNpZ25lci1weXRob24v&ntb=1).

* **MySQL**

**MySQL**is a popular open-source **Relational Database Management System** (RDBMS) that uses **SQL**(Structured Query Language) for database operations. While MySQL is a specific database system accessible for free and supports various programming languages.

* **Sockets**

Socket programming is a way of connecting two nodes on a network to communicate with each other. One socket (node) listens on a particular port at an IP, while the other socket reaches out to the other to form a connection. The server forms the listener socket while the client reaches out to the server. They are the real backbones behind web browsing. In simpler terms, there is a server and a client.

* **Threading**

A **thread**is an entity within a process that can be scheduled for execution. Also, it is the smallest unit of processing that can be performed in an OS (Operating System). In simple words, a thread is a sequence of such instructions within a program that can be executed independently of other code.

* **Traceback**

**Traceback** is a python module that provides a standard interface to extract, format and print stack traces of a python program. When it prints the stack trace it exactly mimics the behaviour of a python interpreter. Useful when you want to print the stack trace at any step. They are usually seen when an exception occurs.

* **Subprocess**

The subprocess module present in Python is used to run new applications or programs through Python code by creating new processes. It also helps to obtain the input/output/error pipes as well as the exit codes of various commands.

# Program design

* **Login Page**

The Login Page is the entry point for users, where they enter their credentials—username and password. The system checks these against stored data in a secure database. Successful authentication grants access to the software, ensuring that only authorized individuals can enter and use the platform.

* **Auction Page**

The Auction Page allows users to start and manage auctions. Here, users can initiate an auction event and engage with all registered clients. This page typically features options to set the auction parameters, such as starting time, duration, and rules, facilitating seamless interaction and participation.

* **Products Page**

The Products Page showcases all items available for auction. It provides users with detailed information, including descriptions, images, and starting bid prices. This comprehensive view helps users make informed decisions when placing bids, as they can easily compare products and assess their value.

* **Add Item Page**

The Add Item Page enables users to submit new items for auction. Users can fill out necessary details, such as the item’s name, description, starting bid, and images. This feature encourages participation by allowing users to contribute items, thereby diversifying the auction inventory and enhancing the auction experience for everyone.

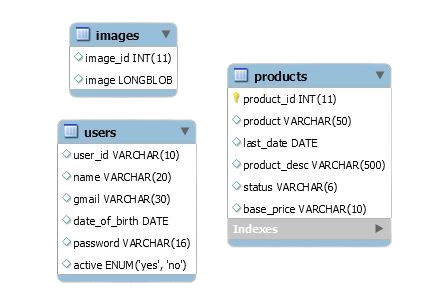
* **Bids Page**

The Bids Page displays all items that users have successfully purchased in previous auctions. It includes information about each transaction, such as item names, final prices, and auction dates. This functionality helps users keep track of their purchases and manage their auction activities efficiently.

* **Profile Page**

The Profile Page allows users to manage their personal information and preferences. Users can edit their profiles, update contact details, and adjust settings related to their auction activities. Additionally, this page enables other users to view profile information, fostering a sense of community and trust within the auction environment.

# Database Structure



# Database

* **Users**

+---------------+------------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+---------------+------------------+------+-----+---------+-------+

| user\_id | varchar(10) | YES | | NULL | |

| name | varchar(20) | YES | | NULL | |

| gmail | varchar(30) | YES | | NULL | |

| date\_of\_birth | date | YES | | NULL | |

| password | varchar(16) | YES | | NULL | |

| active | enum('yes','no') | YES | | no | |

+---------------+------------------+------+-----+---------+-------+

* **Products**

+--------------+--------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+--------------+--------------+------+-----+---------+-------+

| product\_id | int(11) | NO | PRI | NULL | |

| product | varchar(50) | YES | | NULL | |

| last\_date | date | YES | | NULL | |

| product\_desc | varchar(500) | YES | | NULL | |

| status | varchar(6) | YES | | unsold | |

| base\_price | varchar(10) | YES | | NULL | |

+--------------+--------------+------+-----+---------+-------+

* **Images**

+----------+----------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+----------+----------+------+-----+---------+-------+

| image\_id | int(11) | YES | | NULL | |

| image | longblob | YES | | NULL | |

+----------+----------+------+-----+---------+-------+

# Program Code

# IMPORTING MODULES FOR THE PROJECT

import time

import traceback

from PyQt5 import QtWidgets, QtGui, QtCore

from PyQt5.QtWidgets import (QLabel, QPushButton, QLineEdit, QFileDialog, QWidget, QScrollBar, QDialog, QMainWindow,

QMessageBox, QScrollArea, QApplication, QCalendarWidget, QTextEdit,QVBoxLayout,QHBoxLayout,QCheckBox,QDateEdit)

from PyQt5.QtGui import QPixmap, QFont,QIcon,QImage,QPalette,QColor

from PyQt5.QtCore import QRect, Qt , QSize, QDate

import sys

import mysql.connector as sql

import socket

import threading

import pickle

import time

import os

import select

# CREATING DATABASE

try:

connection = sql.connect(host="192.168.102.206", user="root", password="sairam")

main\_cursor = connection.cursor()

db\_creating\_query = "CREATE DATABASE IF NOT EXISTS aucsof\_ip"

main\_cursor.execute(db\_creating\_query)

selecting\_db = "USE aucsof\_ip"

main\_cursor.execute(selecting\_db)

creating\_tbl\_for\_users = ('''

CREATE TABLE IF NOT EXISTS users (

id INT AUTO\_INCREMENT PRIMARY KEY,

full\_name VARCHAR(255),

email VARCHAR(255),

phone VARCHAR(20),

address VARCHAR(255),

dob DATE,

bio TEXT,

linkedin VARCHAR(255),

password VARCHAR(255),

active ENUM('yes','no') DEFAULT 'no'

)

''')

main\_cursor.execute(creating\_tbl\_for\_users)

creating\_tbl\_for\_products = ("CREATE TABLE IF NOT EXISTS products("

"product\_id VARCHAR(6) ,"

"product VARCHAR(50),"

"last\_date DATE,"

"product\_desc VARCHAR(500),"

"status VARCHAR(6) DEFAULT 'unsold',"

"base\_price VARCHAR(10))")

main\_cursor.execute(creating\_tbl\_for\_products)

main\_cursor.execute("alter table products modify column bid\_increement varchar(10) default '1000'")

creating\_tbl\_for\_prodimg = """

CREATE TABLE IF NOT EXISTS IMAGES (

image\_id int,

image LONGBLOB

);

"""

main\_cursor.execute(creating\_tbl\_for\_prodimg)

connection.commit()

except sql.Error as e:

print(f"Error: {e}")

#CREATING LOGIN UI

class login(QDialog):

def \_\_init\_\_(self):

super(login, self).\_\_init\_\_()

self.setWindowTitle("Login") #LOGIN UI TITLE

#self.setStyleSheet("background-color:rgb(234,241,255)")

self.setGeometry(470,200,400,300)

self.tabsbg\_LBL = QLabel(self)

self.tabsbg\_LBL.setStyleSheet("background-color:rgba(0,12,95,205)")

self.tabsbg\_LBL.setGeometry(0, 0, 400, 70)

self.pointsize\_headingLBL=18 #SETTING FONT SIZE FOR HEADINGS

self.pointsize\_LBL=14 #SETTING FONT SIZE FOR LABELS

# CREATING FONTS FOR HEADING LABELS

self.heading\_LBLfont = QFont()

self.heading\_LBLfont.setFamily(u"Palatino Linotype")

self.heading\_LBLfont.setPointSize(22)

self.heading\_LBLfont.setBold(True)

self.heading\_LBLfont.setItalic(True)

self.heading\_LBLfont.setWeight(75)

# CREATING FONTS FOR NORMAL LABELS

self.LBL\_font = QFont()

self.LBL\_font.setFamily(u"Palatino Linotype")

self.LBL\_font.setPointSize(14)

self.LBL\_font.setBold(True)

self.LBL\_font.setItalic(True)

self.LBL\_font.setWeight(75)

# CREATING FONTS FOR LINE EDITS

self.LEfont=QtGui.QFont()

self.LEfont.setPointSize(12)

self.LEfont.setFamily("Platino Linotype")

self.Login\_LBL=QLabel(self)

self.Login\_LBL.setText("LOGIN")

self.Login\_LBL.setFont(self.heading\_LBLfont)

self.Login\_LBL.setGeometry(155,20,101,31)

self.Login\_LBL.setStyleSheet("background-color: rgba(255, 255, 255, 10);color : white")

self.username\_LBL=QLabel(self)

self.username\_LBL.setText("Username")

self.username\_LBL.setFont(self.LBL\_font)

self.username\_LBL.setGeometry(50,110,90,23)

self.pointsize\_LBL-=6

self.LBL\_font.setItalic(False)

self.username\_LE=QtWidgets.QLineEdit(self)

self.username\_LE.setPlaceholderText("Enter your username")

self.username\_LE.setGeometry(150,110,120,25)

self.username\_LE.setFont(self.LEfont)

self.password\_LBL=QLabel(self)

self.password\_LBL.setText("Password")

self.pointsize\_LBL+=6

self.LBL\_font.setItalic(True)

self.password\_LBL.setGeometry(50,180,90,15)

self.password\_LBL.setFont(self.LBL\_font)

self.password\_LE=QtWidgets.QLineEdit(self)

self.password\_LE.setPlaceholderText("Enter your password")

self.LBL\_font.setItalic(False)

self.password\_LE.setFont(self.LEfont)

self.password\_LE.setGeometry(150,175,120,25)

self.password\_LE.setEchoMode(QtWidgets.QLineEdit.Password)

self.login\_BTN = QPushButton(self)

self.login\_BTN.setText("Login")

self.LBL\_font.setItalic(True)

self.login\_BTN.setFont(self.LBL\_font)

self.login\_BTN.setGeometry(130, 220, 80, 35)

self.login\_BTN.clicked.connect(self.mainpg)

self.login\_BTN.setStyleSheet("background-color: rgba(255, 255, 255, 10);padding 10px")

self.sign\_up\_LBL=QLabel(self)

self.sign\_up\_LBL.setText("Don't have an account Signup!")

self.LBL\_font.setItalic(True)

self.sign\_up\_LBL.setFont(self.LBL\_font)

self.sign\_up\_LBL.setGeometry(30,270,280,30)

self.pointsize\_LBL-=5

self.showpasswordcheckbox=QCheckBox(self)

self.showpasswordcheckbox.setFont(self.LBL\_font)

self.showpasswordcheckbox.setText("Show")

self.showpasswordcheckbox.setGeometry(275,175,150,25)

self.showpasswordcheckbox.stateChanged.connect(self.showpwd)

self.sign\_up\_BTN=QPushButton(self)

self.sign\_up\_BTN.setText("Sign up")

self.sign\_up\_BTN.setFont(self.LBL\_font)

self.sign\_up\_BTN.setGeometry(310, 265, 80, 35)

self.sign\_up\_BTN.clicked.connect(self.signup\_pg)

self.sign\_up\_BTN.setStyleSheet("padding 30px")

def signup\_pg(self):

try:

self.destroy()

self.open\_signup\_pg=signup\_ui()

self.open\_signup\_pg.show()

except Exception as e:

traceback.print\_exc()

def showpwd(self):

try:

if self.showpasswordcheckbox.isChecked():

self.password\_LE.setEchoMode(False)

else:

self.password\_LE.setEchoMode(QtWidgets.QLineEdit.Password)

except Exception as e:

traceback.print\_exc()

#CHECKING CREDENTIALS

def mainpg(self):

try:

query=f"select id, password from users where id=%s and password=%s"

main\_cursor.execute(query,(self.username\_LE.text(),self.password\_LE.text()))

res=main\_cursor.fetchone()

if res:

self.destroy()

self.open\_mainpg = main\_ui()

self.open\_mainpg.show()

#else:

#QtWidgets.QMessageBox.warning(

#self, 'Unsuccessful', 'Enter correct credentials!!')

except Exception as e:

traceback.print\_exc()

def userstodb(self):

try:

userinfo = self.username\_LE.text()

userpass = self.password\_LE.text()

update\_tbl=f"update users set active='yes' where user\_id='{userinfo}'"

#main\_cursor.execute(update\_tbl)

#connection.commit()

except Exception as e:

traceback.print\_exc()

#CREATING SIGN UP

class signup\_ui(QDialog):

def \_\_init\_\_(self):

super(signup\_ui, self).\_\_init\_\_()

self.setWindowTitle("Sign up!") # Sign up UI TITLE

#self.setGeometry(470, 200, 500, 550) # Increased height to accommodate additional fields

# Font size for headings, labels, and line edits

self.pointsize\_headingLBL = 18

self.pointsize\_LBL = 14

self.pointsize\_LE = 12

self.tabsbg\_LBL = QLabel(self)

self.tabsbg\_LBL.setStyleSheet("background-color:rgba(0,12,95,205)")

self.tabsbg\_LBL.setGeometry(0, 0, 700, 70)

# Setting up fonts

self.heading\_labels\_font = QtGui.QFont()

self.heading\_labels\_font.setPointSize(self.pointsize\_headingLBL)

self.heading\_labels\_font.setFamily("Platino Linotype")

self.heading\_labels\_font.setBold(True)

self.heading\_labels\_font.setItalic(True)

self.LBL\_font = QtGui.QFont()

self.LBL\_font.setPointSize(self.pointsize\_LBL)

self.LBL\_font.setFamily("Platino Linotype")

self.LBL\_font.setItalic(True)

self.LEfont = QtGui.QFont()

self.LEfont.setPointSize(self.pointsize\_LE)

self.LEfont.setFamily("Platino Linotype")

self.Signup\_LBL = QLabel(self)

self.Signup\_LBL.setText("SIGN UP")

self.Signup\_LBL.setFont(self.heading\_labels\_font)

self.Signup\_LBL.setGeometry(200, 30, 120, 25)

self.Signup\_LBL.setStyleSheet("background-color: rgba(255, 255, 255, 10); color : white")

# User ID, Name, and Email Fields

self.userid\_LBL = QLabel(self)

self.userid\_LBL.setText("Create user id")

self.userid\_LBL.setFont(self.LBL\_font)

self.userid\_LBL.setGeometry(50, 120, 130, 15)

self.userid\_LE = QtWidgets.QLineEdit(self)

self.userid\_LE.setFont(self.LEfont)

self.userid\_LE.setPlaceholderText("Username")

self.userid\_LE.setGeometry(200, 118, 150, 25)

self.name\_LBL = QLabel(self)

self.name\_LBL.setText("Name")

self.name\_LBL.setFont(self.LBL\_font)

self.name\_LBL.setGeometry(50, 165, 148, 15)

self.name\_LE = QtWidgets.QLineEdit(self)

self.name\_LE.setFont(self.LEfont)

self.name\_LE.setGeometry(200, 160, 150, 25)

self.name\_LE.setPlaceholderText("First Name")

self.phone\_LBL = QLabel(self)

self.phone\_LBL.setText("Phone Number")

self.phone\_LBL.setFont(self.LBL\_font)

self.phone\_LBL.setGeometry(50, 250, 148, 15)

self.phone\_LE = QtWidgets.QLineEdit(self)

self.phone\_LE.setFont(self.LEfont)

self.phone\_LE.setGeometry(200, 245, 200, 25)

self.phone\_LE.setPlaceholderText("Phone Number")

self.address\_LBL = QLabel(self)

self.address\_LBL.setText("Address")

self.address\_LBL.setFont(self.LBL\_font)

self.address\_LBL.setGeometry(50, 290, 148, 15)

self.address\_LE = QtWidgets.QLineEdit(self)

self.address\_LE.setFont(self.LEfont)

self.address\_LE.setGeometry(200, 285, 200, 25)

self.address\_LE.setPlaceholderText("Address")

# Gmail, DOB, Password Fields

self.gmail\_LBL = QLabel(self)

self.gmail\_LBL.setText("Gmail")

self.gmail\_LBL.setFont(self.LBL\_font)

self.gmail\_LBL.setGeometry(50, 410, 148, 15)

self.gmail\_LE = QtWidgets.QLineEdit(self)

self.gmail\_LE.setFont(self.LEfont)

self.gmail\_LE.setGeometry(200, 405, 200, 25)

self.gmail\_LE.setPlaceholderText("Your Gmail")

self.dob\_LBL = QLabel(self)

self.dob\_LBL.setText("DOB")

self.dob\_LBL.setFont(self.LBL\_font)

self.dob\_LBL.setGeometry(50, 450, 148, 15)

self.duedate\_LE = QDateEdit(QDate.currentDate(), self)

self.duedate\_LE.setCalendarPopup(True)

self.duedate\_LE.setDisplayFormat("yyyy-MM-dd")

self.duedate\_LE.setFont(self.LEfont)

self.duedate\_LE.setGeometry(200, 444, 200, 25)

self.password\_LBL = QLabel(self)

self.password\_LBL.setText("Password")

self.password\_LBL.setFont(self.LBL\_font)

self.password\_LBL.setGeometry(50, 490, 148, 15)

self.password\_LE = QtWidgets.QLineEdit(self)

self.password\_LE.setFont(self.LEfont)

self.password\_LE.setGeometry(200, 485, 200, 25)

self.password\_LE.setPlaceholderText("Set password")

self.password\_LE.setEchoMode(QtWidgets.QLineEdit.Password)

self.confirmpassword\_LBL = QLabel(self)

self.confirmpassword\_LBL.setText("Confirm Password")

self.confirmpassword\_LBL.setFont(self.LBL\_font)

self.confirmpassword\_LBL.setGeometry(40, 532, 153, 15)

self.confirmpassword\_LE = QtWidgets.QLineEdit(self)

self.confirmpassword\_LE.setFont(self.LEfont)

self.confirmpassword\_LE.setGeometry(200, 528, 200, 25)

self.confirmpassword\_LE.setPlaceholderText("Confirm password")

self.confirmpassword\_LE.setEchoMode(QtWidgets.QLineEdit.Password)

self.signup\_BTN = QPushButton(self)

self.signup\_BTN.setText("Sign up")

self.signup\_BTN.setFont(self.LBL\_font)

self.signup\_BTN.clicked.connect(self.confirmation)

self.signup\_BTN.setGeometry(210, 580, 80, 40)

self.signup\_BTN.setStyleSheet("background-color: rgba(255, 255, 255, 10); padding 10px")

self.back\_BTN = QPushButton(self)

self.back\_BTN.setText("Back")

self.back\_BTN.setFont(self.LBL\_font)

self.back\_BTN.setGeometry(700, 0, 100, 50)

self.back\_BTN.clicked.connect(self.going\_back)

self.back\_BTN.setStyleSheet("background-color: rgba(255, 255, 255, 10); color: white")

def going\_back(self):

try:

self.close()

self.loginobj = login()

self.loginobj.show()

except Exception as e:

traceback.print\_exc()

def confirmation(self):

try:

if self.confirmpassword\_LE.text() == "" or self.password\_LE.text() == "":

QtWidgets.QMessageBox.information(self, 'Unsuccessful', 'Enter a password!')

return

if self.password\_LE.text() == self.confirmpassword\_LE.text():

self.add\_user()

QtWidgets.QMessageBox.information(self, 'Successful', 'Signed up Successfully!')

except Exception as e:

traceback.print\_exc()

def add\_user(self):

try:

username = self.userid\_LE.text()

first\_name = self.name\_LE.text()

phone = self.phone\_LE.text()

address = self.address\_LE.text()

gmail = self.gmail\_LE.text()

dob = self.duedate\_LE.text()

password = self.password\_LE.text()

query = f"""

INSERT INTO users (id, full\_name, email , phone, address, dob , password)

VALUES ('{username}', '{first\_name}','{gmail}', '{phone}', '{address}', '{dob}', '{password}')

"""

main\_cursor.execute(query)

connection.commit()

except Exception as e:

QtWidgets.QMessageBox.warning(self, 'Error', 'Something went wrong!')

print(f"Error: {e}")

#CREATING HOME PAGE UI

class main\_ui(QMainWindow):

def \_\_init\_\_(self):

super(main\_ui,self).\_\_init\_\_()

self.setWindowTitle("Auction Software")

self.setGeometry(275,140,800,500)

self.setStyleSheet("background-color:rgb(234,241,255)")

self.tabsbg\_LBL = QLabel(self)

self.tabsbg\_LBL.setStyleSheet("background-color:rgba(0,12,95,205)")

self.tabsbg\_LBL.setGeometry(0, 0, 791, 90)

self.pointsize\_LBL = 40 # SETTING FONT SIZE FOR LABELS

self.LBL\_font = QtGui.QFont()

self.LBL\_font.setPointSize(self.pointsize\_LBL)

self.LBL\_font.setFamily("Platino Linotype")

self.LBL\_font.setItalic(True)

self.LBL\_font.setBold(True)

self.LBL\_font.setWeight(65)

self.label\_font = QtGui.QFont()

self.label\_font.setPointSize(14)

self.label\_font.setFamily("Lucida Handwrting")

self.home\_btn=QPushButton(self)

self.home\_btn.setText("Home")

self.home\_btn.setStyleSheet("background-color: rgba(255, 255, 255, 10);color : white")

self.home\_btn.setGeometry(5,25,120,41)

self.home\_btn.setFont(self.label\_font)

#self.home\_btn.setAttribute(Qt.WA\_TranslucentBackground)

self.auction\_BTN = QPushButton(self)

self.auction\_BTN.setStyleSheet("background-color: rgba(255, 255, 255, 10);color : white")

self.auction\_BTN.setText("Auction")

self.auction\_BTN.setGeometry(129, 25, 120, 41)

self.auction\_BTN.setFont(self.label\_font)

self.auction\_BTN.clicked.connect(self.connecto\_auction)

self.products\_BTN = QPushButton(self)

self.products\_BTN.setStyleSheet("background-color: rgba(255, 255, 255, 10);color : white")

self.products\_BTN.setText("Products")

self.products\_BTN.setFont(self.label\_font)

self.products\_BTN.setGeometry(253, 25, 120, 41)

self.products\_BTN.clicked.connect(self.connectto\_products)

self.add\_item\_BTN = QPushButton(self)

self.add\_item\_BTN.setStyleSheet("background-color: rgba(255, 255, 255, 10);color : white")

self.add\_item\_BTN.setText("Add Item")

self.add\_item\_BTN.setFont(self.label\_font)

self.add\_item\_BTN.setGeometry(375, 25, 120, 41)

self.add\_item\_BTN.clicked.connect(self.connec\_to\_additem)

self.wallet\_BTN = QPushButton(self)

self.wallet\_BTN.setStyleSheet("background-color: rgba(255, 255, 255, 10);color : white")

self.wallet\_BTN.setText("Wallet")

self.wallet\_BTN.setFont(self.label\_font)

self.wallet\_BTN.setGeometry(500,25,120,41)

self.wallet\_BTN.clicked.connect(self.connecto\_wallet)

self.profile\_BTN = QPushButton(self)

self.profile\_BTN.setStyleSheet("background-color: rgba(255, 255, 255, 10);color : white")

self.profile\_BTN.setText("Profile")

self.profile\_BTN.setFont(self.label\_font)

self.profile\_BTN.setGeometry(625, 25, 120, 41)

self.profile\_BTN.clicked.connect(self.connecto\_profile)

self.exit\_btn=QPushButton(self)

self.exit\_btn.setIcon(QIcon("C:/Users/XII Info/Desktop/Project!/Pictures/exitpg2.png"))

self.exit\_btn.setStyleSheet("background-color: rgba(255, 255, 255, 10);color : white")

self.exit\_btn.setGeometry(750,25,40,40)

self.exit\_btn.clicked.connect(self.backtologin)

self.auction\_software\_LBL=QLabel(self)

self.auction\_software\_LBL.setFont(self.LBL\_font)

self.auction\_software\_LBL.setText("Auction Software")

self.auction\_software\_LBL.setGeometry(50,200,500,100)

self.hslogo\_LBL=QLabel(self)

self.hslogo\_pic=QPixmap("finallogo\_using.png")

self.hslogo\_LBL.setPixmap(self.hslogo\_pic)

self.hslogo\_LBL.setGeometry(550,175,195,180)

def connec\_to\_additem(self):

try:

self.destroy()

self.openadditm\_ui= add\_item\_ui()

self.openadditm\_ui.show()

except Exception as e:

traceback.print\_exc()

def connecto\_auction(self):

try:

self.destroy()

self.openproduct\_ui=auction\_ui()

self.openproduct\_ui.show()

except Exception as e:

traceback.print\_exc()

def connecto\_wallet(self):

try:

self.destroy()

self.openproduct\_ui=wallet\_ui()

self.openproduct\_ui.show()

except Exception as e:

traceback.print\_exc()

def connectto\_products(self):

try:

self.destroy()

self.openprofile=products\_()

self.openprofile.show()

except Exception as e:

traceback.print\_exc()

def connecto\_profile(self):

try:

self.destroy()

self.opensettings=profile\_ui()

self.opensettings.show()

except Exception as e:

traceback.print\_exc()

def backtologin(self):

try:

reply=QMessageBox.question(self, 'Logout Confirmation',

'Are you sure you want to log out?',

QMessageBox.Yes | QMessageBox.No, QMessageBox.No)

if reply==QMessageBox.Yes:

self.destroy()

self.oplogin=login()

self.oplogin.show()

except Exception as e:

traceback.print\_exc()

class auction\_ui(QDialog):

def \_\_init\_\_(self):

super(auction\_ui,self).\_\_init\_\_()

self.setWindowTitle("Auction")

self.setGeometry(275,140,800,500)

self.tabsbg\_LBL = QLabel(self)

self.tabsbg\_LBL.setStyleSheet("background-color:rgba(0,12,95,205)")

self.tabsbg\_LBL.setGeometry(0, 0, 791, 80)

self.LBL\_font = QFont()

self.LBL\_font.setFamily(u"Palatino Linotype")

self.LBL\_font.setPointSize(14)

self.LBL\_font.setBold(True)

self.LBL\_font.setItalic(True)

self.LBL\_font.setWeight(75)

self.LEfont = QtGui.QFont()

self.LEfont.setPointSize(12)

# self.LEfont.setBold(True)

self.LEfont.setItalic(True)

self.LEfont.setFamily(u"Platino Linotype")

self.heading\_LBLfont = QFont()

self.heading\_LBLfont.setFamily(u"Palatino Linotype")

self.heading\_LBLfont.setPointSize(22)

self.heading\_LBLfont.setBold(True)

self.heading\_LBLfont.setItalic(True)

self.heading\_LBLfont.setWeight(75)

'''self.scrollArea = QScrollArea(self)

self.scrollArea.setObjectName(u"scrollArea")

self.scrollArea.setGeometry(QRect(5, 100, 783, 380))

self.scrollArea.setWidgetResizable(True)

self.scrollAreaWidgetContents = QWidget()

self.scrollAreaWidgetContents.setObjectName(u"scrollAreaWidgetContents")

self.scrollAreaWidgetContents.setGeometry(QRect(0, 0, 759, 359))

self.verticalScrollBar = QScrollBar(self.scrollAreaWidgetContents)

self.verticalScrollBar.setObjectName(u"verticalScrollBar")

self.verticalScrollBar.setGeometry(QRect(760, 0, 16, 362))

self.verticalScrollBar.setOrientation(Qt.Vertical)

self.scrollArea.setWidget(self.scrollAreaWidgetContents)'''

self.auctionheading\_LBL = QLabel(self)

self.auctionheading\_LBL.setText("Auction")

self.auctionheading\_LBL.setGeometry(350, 20, 100, 31)

self.auctionheading\_LBL.setFont(self.heading\_LBLfont)

self.auctionheading\_LBL.setStyleSheet("background-color: rgba(255, 255, 255, 10);color : white")

self.prod\_img = QLabel(self)

self.prod\_img.setGeometry(5, 110, 100, 100)

self.prod\_img.setStyleSheet("border: 1px solid black;")

self.prod\_idLBL = QLabel(self)

self.prod\_idLBL.setText("Product Id:")

self.prod\_idLBL.setFont(self.LBL\_font)

self.prod\_idLBL.setGeometry(225, 120, 100, 30)

self.prod\_idLE = QLineEdit(self)

self.prod\_idLE.setPlaceholderText("ID")

self.prod\_idLE.setFont(self.LEfont)

self.prod\_idLE.setGeometry(330, 125, 150, 25)

self.prod\_idLE.editingFinished.connect(self.gettingprodinfo)

self.product\_name = QLabel(self)

self.product\_name.setText("Product Name:-")

self.product\_name.setFont(self.LBL\_font)

self.product\_name.setGeometry(195, 170, 130, 30)

self.productname\_LE = QLineEdit(self)

self.productname\_LE.setPlaceholderText("Product Name")

self.productname\_LE.setFont(self.LEfont)

self.productname\_LE.setGeometry(330, 175, 400, 25)

self.due\_date = QLabel(self)

self.due\_date.setText("Due date:")

self.due\_date.setFont(self.LBL\_font)

self.due\_date.setGeometry(195, 225, 90, 30)

self.duedate\_LE = QLineEdit(self)

self.duedate\_LE.setFont(self.LEfont)

self.duedate\_LE.setPlaceholderText("Due date")

self.duedate\_LE.setGeometry(300, 225, 220, 25)

# self.duedate\_LE.editingFinished().connect()

self.prod\_descLBL = QLabel(self)

self.prod\_descLBL.setText("Product Description")

self.prod\_descLBL.setWordWrap(True)

self.prod\_descLBL.setFont(self.LBL\_font)

self.prod\_descLBL.setGeometry(195, 270, 150, 50)

self.prod\_descLE = QTextEdit(self)

self.prod\_descLE.setPlaceholderText("Description")

self.prod\_descLE.setFont(self.LEfont)

self.prod\_descLE.setGeometry(300, 275, 400, 50)

self.prod\_descLE.installEventFilter(self)

self.baseprice\_LBL = QLabel(self)

self.baseprice\_LBL.setFont(self.LBL\_font)

self.baseprice\_LBL.setText("Base Price")

self.baseprice\_LBL.setGeometry(195, 340, 90, 30)

self.baseprice\_LE = QLineEdit(self)

self.baseprice\_LE.setPlaceholderText("Base Price")

self.baseprice\_LE.setFont(self.LEfont)

self.baseprice\_LE.setGeometry(300, 345, 100, 25)

self.startauc\_BTN = QPushButton("Start Auction", self)

self.startauc\_BTN.setGeometry(240, 390, 150, 30)

self.startauc\_BTN.setFont(self.LBL\_font)

self.startauc\_BTN.clicked.connect(self.mainauctionfn)

self.back\_BTN=QPushButton(self)

self.back\_BTN.setText("Back")

self.back\_BTN.setFont(self.LBL\_font)

self.back\_BTN.setGeometry(700,0,100,50)

self.back\_BTN.clicked.connect(self.going\_back)

self.back\_BTN.setStyleSheet("background-color: rgba(255, 255, 255, 10);color : white")

def gettingprodinfo(self):

self.currentauc\_details={}

prod\_id=self.prod\_idLE.text()

try:

if prod\_id:

connection = sql.connect(host="192.168.102.206", user="root", password="sairam", database="aucsof\_ip")

main\_cursor = connection.cursor()

query=f"select product,last\_date,product\_desc,base\_price,bid\_increement,product\_id from products where product\_id={prod\_id}"

query1=f"select image from images where img\_id={prod\_id}"

main\_cursor.execute(query)

self.result = main\_cursor.fetchall()

main\_cursor.execute(query1)

data=main\_cursor.fetchone()

if data is not None:

image\_data = data[0]

self.temp = QPixmap()

self.temp.loadFromData(image\_data)

# print(self.temp)

self.resized = self.temp.scaled(100, 100, QtCore.Qt.KeepAspectRatio)

self.prod\_img.setPixmap(self.resized)

self.productname\_LE.setText(self.result[0][0])

self.currentauc\_details["Product Name"]=str(self.result[0][0])

self.productname\_LE.setEnabled(False)

self.duedate\_LE.setText(str(self.result[0][1]))

self.currentauc\_details["Due Date"]=str(self.result[0][1])

self.duedate\_LE.setEnabled(False)

self.prod\_descLE.setText(self.result[0][2])

self.currentauc\_details["Product Description"]=str(self.result[0][2])

self.prod\_descLE.setEnabled(False)

self.baseprice\_LE.setText(self.result[0][3])

self.currentauc\_details["Base Price"] = str(self.result[0][3])

self.baseprice\_LE.setEnabled(False)

self.currentauc\_details["Bid Increement"]=str(self.result[0][4])

self.currentauc\_details["Product Id"]=str(self.result[0][5])

#self.currentauc\_details["Imagebindata"]=image\_data

else:

pass

except Exception as e:

traceback.print\_exc()

def mainauctionfn(self):

try:

reply = QMessageBox.question(self, 'Auction Confirmation',

'Are you sure you want to enter the auction?',

QMessageBox.Yes | QMessageBox.No, QMessageBox.No)

if self.prod\_idLE.text()=="":

QtWidgets.QMessageBox.warning(self,"Error","Please Fill in the details")

elif reply==QMessageBox.Yes:

print("Starting auction server...")

self.close()

self.server\_window = AuctionServer(self.currentauc\_details)

self.server\_window.show()

else:

pass

except Exception as ex:

traceback.print\_exc()

def going\_back(self):

try:

self.destroy()

self.main\_uiobj=main\_ui()

self.main\_uiobj.show()

except Exception as e:

traceback.print\_exc()

def eventFilter(self, source, event):

try:

if event.type() == event.Enter and source == self.prod\_descLE:

if self.prod\_descLE.toPlainText()=="":

pass

else:

size = self.prod\_descLE.document().size()

self.prod\_descLE.setFixedSize(QSize(int(size.width()) + 20, int(size.height() + 20)))

self.prod\_descLE.raise\_()

elif event.type() == event.Leave and source == self.prod\_descLE:

self.prod\_descLE.setFixedSize( 400, 50)

return super(auction\_ui, self).eventFilter(source, event)

except Exception as e:

traceback.print\_exc()

class AuctionServer(QDialog):

def \_\_init\_\_(self, currentauc\_details):

super().\_\_init\_\_()

self.setWindowTitle("Auction Server")

self.showMaximized()

self.setStyleSheet("""

background-color: #f4f6f9;

font-family: 'Arial';

color: #333;

""")

# Initialize live auction details

self.liveaucdetails = currentauc\_details

self.starttime = time.time()

if self.liveaucdetails:

self.liveaucdetails["Minimum Next Bid"] = int(self.liveaucdetails['Base Price']) + int(

self.liveaucdetails['Bid Increement'])

self.HOST = '192.168.102.206'

self.PORT = 55444

self.clients = []

# Chat box and UI elements

self.chat\_box = QTextEdit(self)

self.chat\_box.setReadOnly(True)

self.chat\_box.setFont(QFont("Arial", 12))

self.chat\_box.setStyleSheet("""

background-color: #ffffff;

color: #333;

border: 1px solid #ccc;

border-radius: 5px;

padding: 10px;

""")

self.message\_bar = QLineEdit(self)

self.message\_bar.setFont(QFont("Arial", 12))

self.message\_bar.setPlaceholderText("Type your message here...")

self.message\_bar.setStyleSheet("""

border: 1px solid #ccc;

border-radius: 5px;

padding: 10px;

""")

self.message\_bar.returnPressed.connect(self.send\_message)

self.start\_button = QPushButton("Start Auction", self)

self.start\_button.setStyleSheet("""

background-color: #007bff;

color: white;

padding: 10px 20px;

border: none;

border-radius: 5px;

font-size: 16px;

font-weight: bold;

""")

self.start\_button.setCursor(Qt.PointingHandCursor)

self.start\_button.clicked.connect(self.start\_auction)

self.product\_name\_label = QLabel(f"Product Name: {self.liveaucdetails['Product Name']}", self)

self.product\_name\_label.setFont(QFont("Arial", 18, QFont.Bold))

self.product\_desc\_label = QLabel(f"Description: {self.liveaucdetails['Product Description']}", self)

self.product\_desc\_label.setWordWrap(True)

self.product\_desc\_label.setFont(QFont("Arial", 16,QFont.Bold))

self.base\_price\_label = QLabel(f"Base Price: ${self.liveaucdetails['Base Price']}", self)

self.base\_price\_label.setFont(QFont("Arial", 16,QFont.Bold))

self.min\_next\_bid\_label = QLabel(f"Minimum Next Bid: ${self.liveaucdetails['Minimum Next Bid']}", self)

self.min\_next\_bid\_label.setFont(QFont("Arial", 16,QFont.Bold))

self.auction\_status\_label = QLabel("Auction Status: Not Started", self)

self.auction\_status\_label.setFont(QFont("Arial", 14, QFont.Bold))

self.auction\_status\_label.setStyleSheet("color: #555;")

# Layout

layout = QVBoxLayout()

layout.setSpacing(20)

layout.addWidget(QLabel("<h1 style='color:#007bff;'>Auction Server Running</h1>", self),

alignment=Qt.AlignCenter)

layout.addWidget(self.product\_name\_label)

layout.addWidget(self.product\_desc\_label)

layout.addWidget(self.base\_price\_label)

layout.addWidget(self.min\_next\_bid\_label)

layout.addWidget(self.auction\_status\_label)

layout.addWidget(self.chat\_box, stretch=2)

layout.addWidget(self.message\_bar)

layout.addWidget(self.start\_button, alignment=Qt.AlignRight)

self.setLayout(layout)

# Start server in a separate thread

server\_thread = threading.Thread(target=self.start\_server)

server\_thread.daemon = True

server\_thread.start()

def start\_server(self):

self.serversock = socket.socket(socket.AF\_INET, socket.SOCK\_STREAM)

self.serversock.bind((self.HOST, self.PORT))

self.serversock.listen(3)

self.update\_chat\_display(f"[LISTENING] Server is listening on {self.HOST}:{self.PORT}")

while True:

self.clientsock, self.address = self.serversock.accept()

self.clients.append(self.clientsock)

self.update\_chat\_display(f"[NEW CONNECTION] {self.address} connected.")

client\_thread = threading.Thread(target=self.handle\_client, args=(self.clientsock,))

client\_thread.daemon = True

client\_thread.start()

def handle\_client(self, clientsock):

try:

clientsock.send(

"Welcome to the Auction! Type 'details' for auction info. Type 'exit' to leave.".encode('utf-8')

)

while True:

self.receive\_messages(clientsock)

except Exception as e:

print(f"Error in client handler: {e}")

finally:

self.remove\_client(clientsock)

def remove\_client(self, clientsock):

"""Remove the client and close the socket."""

if clientsock in self.clients:

self.clients.remove(clientsock)

clientsock.close()

self.update\_chat\_display("A client has disconnected.")

def receive\_messages(self, clientsock):

try:

message = clientsock.recv(1024).decode('utf-8')

print(message)

if not message:

# Empty message indicates client disconnected

self.update\_chat\_display(f"[DISCONNECT] {clientsock.getpeername()} disconnected.")

self.remove\_client(clientsock)

return

# Process the message

if message.strip().lower() == "exit":

self.update\_chat\_display(f"[CLIENT EXIT] {clientsock.getpeername()} exited the auction.")

clientsock.send("DISCONNECT".encode('utf-8'))

self.remove\_client(clientsock)

elif message.strip().lower() == "details":

if self.liveaucdetails:

sending\_data = pickle.dumps(self.liveaucdetails)

clientsock.send(b"PICKLE" + sending\_data)

self.update\_chat\_display(f"Auction details sent to {clientsock.getpeername()}.")

else:

self.update\_chat\_display(f"[CLIENT MESSAGE] {clientsock.getpeername()} says: {message}")

self.broadcast\_message(f"Client {clientsock.getpeername()} says: {message}", clientsock)

except Exception as e:

print(f"Error receiving message: {e}")

self.remove\_client(clientsock)

def update\_chat\_display(self, message):

self.chat\_box.append(message)

def send\_message(self):

message = self.message\_bar.text().strip()

if message:

self.update\_chat\_display(f"[SERVER] {message}")

self.broadcast\_message(message)

self.message\_bar.clear()

def broadcast\_message(self, message, sender\_socket=None):

for client in self.clients:

if client != sender\_socket:

try:

client.send(message.encode('utf-8'))

except Exception as e:

print("Failed to send message to a client", e)

def start\_auction(self):

# Start the auction and notify clients

if self.liveaucdetails:

self.liveaucdetails["Auction Started"] = True

self.auction\_status\_label.setText("Auction Status: Active")

self.broadcast\_message(f"Auction for {self.liveaucdetails['Product Name']} has started!")

self.update\_chat\_display(f"Auction for {self.liveaucdetails['Product Name']} has started!")

class products\_(QDialog):

def \_\_init\_\_(self):

super(products\_, self).\_\_init\_\_()

self.setWindowTitle("Products")

self.setGeometry(275,140,800,500)

self.desc=[]

self.readm=[]

self.tabsbg\_LBL = QLabel(self)

self.tabsbg\_LBL.setStyleSheet("background-color:rgba(0,12,95,205)")

self.tabsbg\_LBL.setGeometry(0, 0, 791, 80)

self.LBL\_font = QFont()

self.LBL\_font.setFamily("Palatino Linotype")

self.LBL\_font.setPointSize(14)

self.LBL\_font.setBold(True)

self.LBL\_font.setItalic(True)

self.LBL\_font.setWeight(75)

self.txt\_font = QFont()

self.txt\_font.setFamily("Palatino Linotype")

self.txt\_font.setPointSize(12)

self.txt\_font.setBold(True)

self.txt\_font.setItalic(True)

self.txt\_font.setWeight(75)

self.heading\_LBLfont = QFont()

self.heading\_LBLfont.setFamily("Palatino Linotype")

self.heading\_LBLfont.setPointSize(22)

self.heading\_LBLfont.setBold(True)

self.heading\_LBLfont.setItalic(True)

self.heading\_LBLfont.setWeight(75)

# Setting up the scroll area

self.scrollArea = QScrollArea(self)

self.scrollArea.setGeometry(QRect(20, 120, 761, 361))

self.scrollArea.setWidgetResizable(True)

# Creating a widget to hold the scroll area's contents

self.scrollAreaWidgetContents = QWidget()

self.scrollArea.setWidget(self.scrollAreaWidgetContents)

try:

connection = sql.connect(host="192.168.102.206", user="root", password="sairam", database="aucsof\_ip")

main\_cursor = connection.cursor()

self.desc\_query = "SELECT product, product\_desc FROM products order by product\_id;"

main\_cursor.execute(self.desc\_query)

self.desc = main\_cursor.fetchall()

b, j = 10, 130

max\_height = 0

for i in range(1, len(self.desc) + 1):

prodname = self.desc[i - 1][0]

proddesc = self.desc[i - 1][1]

totalinf = f"{prodname}\n{proddesc}"

self.prod\_img = QLabel(self.scrollAreaWidgetContents)

self.prod\_img.setGeometry(5, b, 100, 100)

self.prod\_img.setStyleSheet("border: 1px solid black;")

query1 = """select image from images where img\_id =""" + str(i)

#print(query1)

try:

main\_cursor.execute(query1)

data = main\_cursor.fetchone()

if data is not None:

image\_data = data[0]

self.temp=QPixmap()

self.temp.loadFromData(image\_data)

#print(self.temp)

self.resized = self.temp.scaled(100, 100, QtCore.Qt.KeepAspectRatio)

self.prod\_img.setPixmap(self.resized)

else:

self.prod\_img.setText("Image not found.")

except Exception as e:

#print(f"Error fetching image for product {prodname}: {img\_err}")

traceback.print\_exc()

#self.prod\_img.setPixmap(pixmap)

self.product\_desc = QLabel(self.scrollAreaWidgetContents)

self.product\_desc.setFont(self.txt\_font)

self.product\_desc.setText(totalinf)

self.product\_desc.setWordWrap(True)

self.product\_desc.setGeometry(120, b + 10, 500, 80)

self.desc.append(self.product\_desc)

self.readmore\_BTN = QPushButton(self.scrollAreaWidgetContents)

self.readmore\_BTN.setFont(self.txt\_font)

self.readmore\_BTN.setText("Read More")

self.readmore\_BTN.setGeometry(650, b + 60, 90, 25)

self.readmore\_BTN.clicked.connect(self.openingreadmore)

self.readm.append(self.readmore\_BTN)

b += 130

j += 135

max\_height = j + 20

self.scrollAreaWidgetContents.setMinimumHeight(max\_height)

except Exception as err:

print(f"Database Error: {err}")

traceback.print\_exc()

finally:

if connection:

connection.close()

self.productsheading\_LBL = QLabel(self)

self.productsheading\_LBL.setText("Products")

self.productsheading\_LBL.setGeometry(350, 20, 120, 31)

self.productsheading\_LBL.setFont(self.heading\_LBLfont)

self.productsheading\_LBL.setStyleSheet("background-color: rgba(255, 255, 255, 10); color: white")

self.back\_BTN = QPushButton(self)

self.back\_BTN.setText("Back")

self.back\_BTN.setFont(self.LBL\_font)

self.back\_BTN.setGeometry(700, 0, 100, 50)

self.back\_BTN.clicked.connect(self.going\_back)

self.back\_BTN.setStyleSheet("background-color: rgba(255, 255, 255, 10); color: white")

def openingreadmore(self):

try:

self.descreadm=self.sender()

retrivindesc=self.readm.index(self.descreadm)+1

print(self.descreadm)

print(retrivindesc)

self.destroy()

self.op=ReadMore(retrivindesc)

self.op.show()

except Exception as e:

traceback.print\_exc()

def going\_back(self):

try:

self.close()

self.main\_uiobj = main\_ui()

self.main\_uiobj.show()

except Exception as e:

traceback.print\_exc()

class ReadMore(QWidget):

def \_\_init\_\_(self, retrieving\_desc):

super(ReadMore, self).\_\_init\_\_()

self.setWindowTitle("Read More About the Product")

self.setGeometry(275, 140, 800, 500)

# Fonts

self.LBL\_font = QFont("Palatino Linotype", 14, QFont.Bold, italic=True)

self.txt\_font = QFont("Palatino Linotype", 12, QFont.Bold, italic=True)

self.heading\_LBLfont = QFont("Palatino Linotype", 22, QFont.Bold, italic=True)

# Background for header

self.tabsbg\_LBL = QLabel(self)

self.tabsbg\_LBL.setStyleSheet("background-color:rgba(0,12,95,205)")

self.tabsbg\_LBL.setGeometry(0, 0, 791, 80)

# Back button

self.back\_BTN = QPushButton(self)

self.back\_BTN.setText("Back")

self.back\_BTN.setFont(self.LBL\_font)

self.back\_BTN.setGeometry(700, 0, 100, 50)

self.back\_BTN.clicked.connect(self.going\_back)

self.back\_BTN.setStyleSheet("background-color: rgba(255, 255, 255, 10); color: white")

try:

# Database connection and query execution

connection = sql.connect(

host="192.168.102.206", user="root", password="sairam", database="aucsof\_ip"

)

main\_cursor = connection.cursor()

query = f"SELECT product, product\_desc, base\_price, last\_date,bid\_increement FROM products WHERE product\_id={retrieving\_desc} ORDER BY product\_id"

main\_cursor.execute(query)

self.testresult=main\_cursor.fetchall()

self.result={}

if self.testresult:

self.prodhead = QLabel(self)

self.prodhead.setFont(self.heading\_LBLfont)

self.prodhead.setText(self.testresult[0][0])

self.result["Product Name"]=str(self.testresult[0][0])

self.prodhead.setGeometry(10, 10, 700, 50)

self.prodhead.setStyleSheet("color: white;")

# Product description

self.desc\_label = QLabel(self)

self.desc\_label.setFont(self.txt\_font)

self.desc\_label.setWordWrap(True)

self.desc\_label.setText(f"Description: {self.testresult[0][1]}")

self.result["Product Description"]=str(self.testresult[0][1])

self.desc\_label.setGeometry(10, 100, 450, 150)

self.desc\_label.setStyleSheet("color: black;")

# Base price

self.price\_label = QLabel(self)

self.price\_label.setFont(self.txt\_font)

self.price\_label.setText(f"Base Price: ${self.testresult[0][2]}")

self.result["Base Price"]=str(self.testresult[0][2])

self.price\_label.setGeometry(10, 250, 300, 40)

self.price\_label.setStyleSheet("color: black;")

self.minnextbid=QLabel(f"Minimum Next Bid: {int(self.testresult[0][2])+1000}" ,self)

self.minnextbid.setFont(self.LBL\_font)

self.minnextbid.setGeometry(10,360,300,40)

# Due date

self.due\_date\_label = QLabel(self)

self.due\_date\_label.setFont(self.txt\_font)

self.due\_date\_label.setText(f"Due Date: {self.testresult[0][3]}")

self.result["Due Date"]=str(self.testresult[0][3])

self.due\_date\_label.setGeometry(10, 300, 300, 40)

self.due\_date\_label.setStyleSheet("color: black;")

self.result["Bid Increement"] = str(self.testresult[0][4])

self.result["Product Id"]=retrieving\_desc

# Product Image

self.product\_image=QLabel(self)

q1=f"select image from images where img\_id ={retrieving\_desc}"

main\_cursor.execute(q1)

result=main\_cursor.fetchall()

if result is not None:

self.image\_data = result[0][0]

self.temp = QPixmap()

self.temp.loadFromData(self.image\_data)

# print(self.temp)

self.resized = self.temp.scaled(250, 250, QtCore.Qt.KeepAspectRatio)

self.product\_image.setPixmap(self.resized)

self.product\_image.setGeometry(500,150,250,250)

else:

self.product\_image.setText("Image Not Available")

self.product\_image.setStyleSheet("color: red;")

self.product\_image.setGeometry(500, 100, 250, 250)

# Start Auction button

self.start\_auction\_btn = QPushButton("Start Auction", self)

self.start\_auction\_btn.setFont(self.LBL\_font)

self.start\_auction\_btn.setGeometry(300, 400, 200, 50)

self.start\_auction\_btn.setStyleSheet("background-color: green; color: white;")

self.start\_auction\_btn.clicked.connect(self.start\_auction)

except sql.Error as err:

print(f"Database Error: {err}")

def going\_back(self):

try:

self.close()

self.products\_uiobj = products\_()

self.products\_uiobj.show()

except Exception as e:

traceback.print\_exc()

def start\_auction(self):

# Logic to start auction

try:

reply = QMessageBox.question(self, 'Auction Confirmation',

'Are you sure you want to enter the auction?',

QMessageBox.Yes | QMessageBox.No, QMessageBox.No)

if reply==QMessageBox.Yes:

print("Auction is Starting for the product!")

print("Starting auction server...")

self.close()

#self.result["Imagebindata"]=self.image\_data

self.server\_window2 = AuctionServer(self.result)

self.server\_window2.show()

except Exception as e:

traceback.print\_exc()

class add\_item\_ui(QDialog):

def \_\_init\_\_(self):

super(add\_item\_ui,self).\_\_init\_\_()

self.setWindowTitle("Add Items")

self.setGeometry(275,140,800,500)

self.tabsbg\_LBL = QLabel(self)

self.tabsbg\_LBL.setStyleSheet("background-color:rgba(0,12,95,205)")

self.tabsbg\_LBL.setGeometry(0, 0, 791, 80)

self.LBL\_font = QFont()

self.LBL\_font.setFamily(u"Palatino Linotype")

self.LBL\_font.setPointSize(14)

self.LBL\_font.setBold(True)

self.LBL\_font.setItalic(True)

self.LBL\_font.setWeight(75)

self.LEfont = QtGui.QFont()

self.LEfont.setPointSize(12)

# self.LEfont.setBold(True)

self.LEfont.setItalic(True)

self.LEfont.setFamily(u"Platino Linotype")

self.heading\_LBLfont = QFont()

self.heading\_LBLfont.setFamily(u"Palatino Linotype")

self.heading\_LBLfont.setPointSize(22)

self.heading\_LBLfont.setBold(True)

self.heading\_LBLfont.setItalic(True)

self.heading\_LBLfont.setWeight(75)

self.addtitm\_uiheading\_LBL = QLabel(self)

self.addtitm\_uiheading\_LBL.setText("Add Items")

self.addtitm\_uiheading\_LBL.setGeometry(340, 20, 133, 31)

self.addtitm\_uiheading\_LBL.setFont(self.heading\_LBLfont)

self.addtitm\_uiheading\_LBL.setStyleSheet("background-color: rgba(255, 255, 255, 10);color : white")

self.prod\_img = QLabel(self)

self.prod\_img.setGeometry(5, 110, 110, 110)

self.prod\_img.setStyleSheet("border: 1px solid black;")

self.addimg\_BTN=QPushButton(self)

self.addimg\_BTN.setText("Add Image")

self.addimg\_BTN.clicked.connect(self.openingfiledialogue)

self.addimg\_BTN.setGeometry(15,225,75,25)

self.prod\_idLBL=QLabel(self)

self.prod\_idLBL.setText("Product Id:")

self.prod\_idLBL.setFont(self.LBL\_font)

self.prod\_idLBL.setGeometry(225,120,100,30)

self.prod\_idLE = QLineEdit(self)

self.prod\_idLE.setPlaceholderText("New ID")

self.prod\_idLE.setFont(self.LEfont)

self.prod\_idLE.setGeometry(330, 125, 150, 25)

try:

connection = sql.connect(host="192.168.102.206", user="root", password="sairam", database="aucsof\_ip")

main\_cursor = connection.cursor()

q1="select max(product\_id) from products;"

main\_cursor.execute(q1)

temp=main\_cursor.fetchall()

print(temp[0][0])

self.prod\_idLE.setText(str(temp[0][0]+1))

self.prod\_idLE.setEnabled(False)

except Exception as e:

traceback.print\_exc()

self.product\_name=QLabel(self)

self.product\_name.setText("Product Name:-")

self.product\_name.setFont(self.LBL\_font)

self.product\_name.setGeometry(195,170,130,30)

self.productname\_LE = QLineEdit(self)

self.productname\_LE.setPlaceholderText("Product Name")

self.productname\_LE.setFont(self.LEfont)

self.productname\_LE.setGeometry(330, 175, 150, 25)

self.due\_date=QLabel(self)

self.due\_date.setText("Due date:")

self.due\_date.setFont(self.LBL\_font)

self.due\_date.setGeometry(195,225,90,30)

#self.duewid\_LE=QLineEdit(self)

#self.duewid\_LE.setFont(self.LEfont)

#self.duewid\_LE.setGeometry(520,225,220,150)

self.duedate\_LE=QDateEdit(QDate.currentDate(),self)

self.duedate\_LE.setCalendarPopup(True)

self.duedate\_LE.setDisplayFormat("yyyy-MM-dd")

self.duedate\_LE.setFont(self.LEfont)

self.duedate\_LE.setGeometry(300,225,220,25)

#self.duedate\_LE.installEventFilter(self)

self.due\_datewid=QCalendarWidget(self)

#self.due\_datewid.resize(self.duedate\_LE.size())

self.due\_datewid.hide()

self.due\_datewid.clicked.connect(self.getdate)

self.prod\_descLBL=QLabel(self)

self.prod\_descLBL.setText("Product Description")

self.prod\_descLBL.setWordWrap(True)

self.prod\_descLBL.setFont(self.LBL\_font)

self.prod\_descLBL.setGeometry(195,270,150,50)

self.prod\_descLE = QTextEdit(self)

self.prod\_descLE.setPlaceholderText("Enter your description here.... Min 30 words")

self.prod\_descLE.setFont(self.LEfont)

self.prod\_descLE.setGeometry(300, 275, 220, 50)

self.baseprice\_LBL=QLabel(self)

self.baseprice\_LBL.setFont(self.LBL\_font)

self.baseprice\_LBL.setText("Base Price")

self.baseprice\_LBL.setGeometry(195,340,90,30)

self.baseprice\_LE = QLineEdit(self)

self.baseprice\_LE.setPlaceholderText("Base Price")

self.baseprice\_LE.setFont(self.LEfont)

self.baseprice\_LE.setGeometry(300, 345, 100, 25)

self.additm\_BTN=QPushButton(self)

self.additm\_BTN.setFont(self.LBL\_font)

self.additm\_BTN.setText("Add item")

self.additm\_BTN.setGeometry(240,390,100,30)

self.additm\_BTN.clicked.connect(self.addproduct)

self.back\_BTN = QPushButton(self)

self.back\_BTN.setText("Back")

self.back\_BTN.setFont(self.LBL\_font)

self.back\_BTN.setGeometry(700, 0, 100, 50)

self.back\_BTN.clicked.connect(self.going\_back)

self.back\_BTN.setStyleSheet("background-color: rgba(255, 255, 255, 10);color : white")

self.remove\_itm\_BTN = QPushButton(self)

self.remove\_itm\_BTN.setText("Delete Items")

self.remove\_itm\_BTN.setFont(self.LBL\_font)

self.remove\_itm\_BTN.setGeometry(590, 80, 200, 35)

self.remove\_itm\_BTN.clicked.connect(self.rem\_ui)

'''def eventFilter(self, source, event):

try:

if event.type() == event.Enter and source == self.duedate\_LE:

print("in")

self.due\_datewid.setGeometry(300,250,310,180)

self.due\_datewid.show()

self.due\_datewid.raise\_()

#self.due\_datewid.setGeometry(530,225,)

elif event.type() == event.Leave and source == self.duedate\_LE:

print("Not in")

self.due\_datewid.hide()

return super(add\_item\_ui, self).eventFilter(source, event)

except Exception as e:

traceback.print\_exc()'''

def getdate(self):

self.getdatefrmwid = self.due\_datewid.selectedDate().toPyDate()

try:

self.duedate\_LE.setText(str(self.getdatefrmwid))

print(self.getdatefrmwid)

except Exception as e:

traceback.print\_exc()

def openingfiledialogue(self):

options = QFileDialog.Options()

fileName,\_ = QFileDialog.getOpenFileName(self, "Open Image File", "",

"Images (\*.png \*.xpm \*.jpg);;All Files (\*)", options=options)

if fileName:

try:

self.image\_path = fileName

print(self.image\_path)

self.pixmapimg\_prod = QPixmap(fileName)

self.prod\_img.setPixmap(self.pixmapimg\_prod.scaled(self.prod\_img.size(), aspectRatioMode=True))

except Exception as e:

traceback.print\_exc()

def addproduct(self):

try:

product\_id = int(self.prod\_idLE.text())

productname = self.productname\_LE.text()

lastdate = self.duedate\_LE.text()

product\_desc = self.prod\_descLE.toPlainText()

baseprice = self.baseprice\_LE.text()

'''if not all([product\_id, productname, lastdate, product\_desc, baseprice, self.image\_path]):

QtWidgets.QMessageBox.warning(self, 'Error', 'All fields must be filled, including the image.')

return'''

connection = sql.connect(host="192.168.102.206", user="root", password="sairam", database="aucsof\_ip")

main\_cursor = connection.cursor()

# Insert image into the images table and get the image\_id

with open(self.image\_path, 'rb') as file:

img\_data = file.read()

addprod\_query = """

INSERT INTO products (product\_id, product, last\_date, product\_desc, status, base\_price)

VALUES (%s, %s, %s, %s, %s, %s)

"""

print(addprod\_query)

main\_cursor.execute(addprod\_query, (product\_id, productname, lastdate, product\_desc, "unsold", baseprice))

insert\_image\_query = "INSERT INTO images (img\_id,image) VALUES (%s,%s)"

print(self.image\_path)

main\_cursor.execute(insert\_image\_query, (product\_id,img\_data))

image\_id = main\_cursor.lastrowid # Get the last inserted image\_id

connection.commit()

QtWidgets.QMessageBox.information(self, 'Success', 'Item added successfully.')

self.productname\_LE.clear()

self.duedate\_LE.clear()

self.prod\_img.clear()

self.prod\_descLE.clear()

self.baseprice\_LE.clear()

except Exception as e:

traceback.print\_exc()

QtWidgets.QMessageBox.information(self, 'Error 404', 'Item could not be added!.')

finally:

connection.close()

def rem\_ui(self):

try:

self.close()

self.removeitmobj = removeitem()

self.removeitmobj.exec\_()

except Exception as e:

traceback.print\_exc()

def going\_back(self):

try:

self.close()

self.main\_uiobj = main\_ui()

self.main\_uiobj.show()

except Exception as e:

traceback.print\_exc()

class removeitem(QDialog):

def \_\_init\_\_(self):

super(removeitem, self).\_\_init\_\_()

self.setWindowTitle("Remove Item")

self.setGeometry(275, 140, 800, 500)

# UI Components Setup

self.tabsbg\_LBL = QLabel(self)

self.tabsbg\_LBL.setStyleSheet("background-color:rgba(0,12,95,205)")

self.tabsbg\_LBL.setGeometry(0, 0, 791, 80)

self.LBL\_font = QFont()

self.LBL\_font.setFamily(u"Palatino Linotype")

self.LBL\_font.setPointSize(14)

self.LBL\_font.setBold(True)

self.LBL\_font.setItalic(True)

self.LBL\_font.setWeight(75)

self.heading\_LBLfont = QFont()

self.heading\_LBLfont.setFamily(u"Palatino Linotype")

self.heading\_LBLfont.setPointSize(22)

self.heading\_LBLfont.setBold(True)

self.heading\_LBLfont.setItalic(True)

self.heading\_LBLfont.setWeight(75)

self.LEfont = QFont()

self.LEfont.setPointSize(12)

self.LEfont.setItalic(True)

self.LEfont.setFamily(u"Platino Linotype")

# UI Elements

self.prod\_img = QLabel(self)

self.prod\_img.setGeometry(5, 110, 100, 100)

self.prod\_img.setStyleSheet("border: 1px solid black;")

self.prod\_idLBL = QLabel(self)

self.prod\_idLBL.setText("Product Id:")

self.prod\_idLBL.setFont(self.LBL\_font)

self.prod\_idLBL.setGeometry(225, 120, 100, 30)

self.prod\_idLE = QLineEdit(self)

self.prod\_idLE.setPlaceholderText("ID")

self.prod\_idLE.setFont(self.LEfont)

self.prod\_idLE.setGeometry(330, 125, 150, 25)

self.prod\_idLE.editingFinished.connect(self.gettingprodinfo)

self.product\_name = QLabel(self)

self.product\_name.setText("Product Name:")

self.product\_name.setFont(self.LBL\_font)

self.product\_name.setGeometry(195, 170, 130, 30)

self.productname\_LE = QLineEdit(self)

self.productname\_LE.setPlaceholderText("Product Name")

self.productname\_LE.setFont(self.LEfont)

self.productname\_LE.setGeometry(330, 175, 400, 25)

self.due\_date = QLabel(self)

self.due\_date.setText("Due date:")

self.due\_date.setFont(self.LBL\_font)

self.due\_date.setGeometry(195, 225, 90, 30)

self.duedate\_LE = QLineEdit(self)

self.duedate\_LE.setFont(self.LEfont)

self.duedate\_LE.setPlaceholderText("Due date")

self.duedate\_LE.setGeometry(300, 225, 220, 25)

self.prod\_descLBL = QLabel(self)

self.prod\_descLBL.setText("Product Description")

self.prod\_descLBL.setWordWrap(True)

self.prod\_descLBL.setFont(self.LBL\_font)

self.prod\_descLBL.setGeometry(195, 270, 150, 50)

self.prod\_descLE = QTextEdit(self)

self.prod\_descLE.setPlaceholderText("Description")

self.prod\_descLE.setFont(self.LEfont)

self.prod\_descLE.setGeometry(300, 275, 400, 50)

self.baseprice\_LBL = QLabel(self)

self.baseprice\_LBL.setFont(self.LBL\_font)

self.baseprice\_LBL.setText("Base Price")

self.baseprice\_LBL.setGeometry(195, 340, 90, 30)

self.baseprice\_LE = QLineEdit(self)

self.baseprice\_LE.setPlaceholderText("Base Price")

self.baseprice\_LE.setFont(self.LEfont)

self.baseprice\_LE.setGeometry(300, 345, 100, 25)

self.removeitmheading\_LBL = QLabel(self)

self.removeitmheading\_LBL.setText("Delete Items")

self.removeitmheading\_LBL.setGeometry(330, 20, 200, 31)

self.removeitmheading\_LBL.setFont(self.heading\_LBLfont)

self.removeitmheading\_LBL.setStyleSheet("background-color: rgba(255, 255, 255, 10);color : white")

self.delete\_BTN = QPushButton(self)

self.delete\_BTN.setText("Delete Item")

self.delete\_BTN.setFont(self.LBL\_font)

self.delete\_BTN.setGeometry(300, 400, 150, 50)

self.delete\_BTN.clicked.connect(self.delete\_item)

self.delete\_BTN.setStyleSheet("background-color: red; color: white")

self.back\_BTN = QPushButton(self)

self.back\_BTN.setText("Back")

self.back\_BTN.setFont(self.LBL\_font)

self.back\_BTN.setGeometry(700, 0, 100, 50)

self.back\_BTN.clicked.connect(self.going\_back)

self.back\_BTN.setStyleSheet("background-color: rgba(255, 255, 255, 10);color : white")

def gettingprodinfo(self):

prod\_id = self.prod\_idLE.text()

try:

connection = sql.connect(host="192.168.102.206", user="root", password="sairam", database="aucsof\_ip")

main\_cursor = connection.cursor()

query = f"SELECT product, last\_date, product\_desc, base\_price FROM products WHERE product\_id={prod\_id}"

main\_cursor.execute(query)

result = main\_cursor.fetchall()

if result:

self.productname\_LE.setText(result[0][0])

self.duedate\_LE.setText(str(result[0][1]))

self.prod\_descLE.setText(result[0][2])

self.baseprice\_LE.setText(result[0][3])

self.product\_image = QLabel(self)

q1 = f"select image from images where img\_id ={prod\_id}"

main\_cursor.execute(q1)

result2 = main\_cursor.fetchall()

if result2 is not None:

self.image\_data = result2[0][0]

self.temp = QPixmap()

self.temp.loadFromData(self.image\_data)

# print(self.temp)

self.resized = self.temp.scaled(100, 100, QtCore.Qt.KeepAspectRatio)

self.prod\_img.setPixmap(self.resized)

#self.prod\_img.setGeometry(500, 150, 250, 250)

else:

self.prod\_img.setText("Image Not Available")

self.prod\_img.setStyleSheet("color: red;")

self.prod\_img.setGeometry(500, 100, 250, 250)

else:

QtWidgets.QMessageBox.warning(self, 'Error', 'No product found with the given ID.')

except Exception as e:

traceback.print\_exc()

finally:

connection.close()

def delete\_item(self):

prod\_id = self.prod\_idLE.text()

try:

connection = sql.connect(host="192.168.102.206", user="root", password="sairam", database="aucsof\_ip")

main\_cursor = connection.cursor()

delete\_query = f"DELETE FROM products WHERE product\_id={prod\_id}"

main\_cursor.execute(delete\_query)

del\_imgquery = f"delete from images where img\_id={prod\_id}"

main\_cursor.execute(del\_imgquery)

connection.commit()

if main\_cursor.rowcount > 0:

QtWidgets.QMessageBox.information(self, 'Success', f'Product ID {prod\_id} deleted successfully!')

self.clear\_fields()

else:

QtWidgets.QMessageBox.warning(self, 'Error', f'No product found with ID {prod\_id}.')

except Exception as e:

traceback.print\_exc()

finally:

connection.close()

def clear\_fields(self):

self.prod\_idLE.clear()

self.productname\_LE.clear()

self.duedate\_LE.clear()

self.prod\_descLE.clear()

self.baseprice\_LE.clear()

def going\_back(self):

try:

self.close()

self.additmobj = add\_item\_ui()

self.additmobj.exec\_()

except Exception as e:

traceback.print\_exc()

class wallet\_ui(QWidget):

def \_\_init\_\_(self):

super().\_\_init\_\_()

self.init\_ui()

self.wallet\_balance = 0

def init\_ui(self):

self.setWindowTitle("Auction Wallet System")

self.setFixedSize(800, 500)

# Set up fonts and styles

self.setFont(QFont("Arial", 10))

self.back\_btn = QPushButton("Back")

self.back\_btn.setStyleSheet(

"padding: 5px 10px; background-color: #FF5722; color: white; border: none; border-radius: 5px;")

self.back\_btn.clicked.connect(self.go\_back)

# Wallet Setup

self.wallet\_label = QLabel("Create Wallet:")

self.wallet\_label.setFont(QFont("Arial", 12, QFont.Bold))

self.wallet\_input = QLineEdit()

self.wallet\_input.setPlaceholderText("Enter initial balance")

self.wallet\_input.setStyleSheet("padding: 5px; border: 1px solid #ccc;")

self.create\_wallet\_btn = QPushButton("Create Wallet")

self.create\_wallet\_btn.setStyleSheet("padding: 5px 10px; background-color: #4CAF50; color: white; border: none; border-radius: 5px;")

self.create\_wallet\_btn.clicked.connect(self.create\_wallet)

# Wallet Display

self.balance\_label = QLabel("Balance: $0")

self.balance\_label.setFont(QFont("Arial", 14))

self.balance\_label.setStyleSheet("color: #2c3e50;")

# Bid Section

self.item\_label = QLabel("Current Item: Rare Painting")

self.item\_label.setFont(QFont("Arial", 12, QFont.Bold))

self.bid\_input = QLineEdit()

self.bid\_input.setPlaceholderText("Enter your bid amount")

self.bid\_input.setStyleSheet("padding: 5px; border: 1px solid #ccc;")

self.bid\_btn = QPushButton("Place Bid")

self.bid\_btn.setStyleSheet("padding: 5px 10px; background-color: #2196F3; color: white; border: none; border-radius: 5px;")

self.bid\_btn.clicked.connect(self.place\_bid)

header\_layout = QHBoxLayout()

header\_layout.addWidget(self.back\_btn, alignment=Qt.AlignLeft)

header\_layout.addStretch()

# Layout

wallet\_layout = QHBoxLayout()

wallet\_layout.addWidget(self.wallet\_label)

wallet\_layout.addWidget(self.wallet\_input)

wallet\_layout.addWidget(self.create\_wallet\_btn)

bid\_layout = QHBoxLayout()

bid\_layout.addWidget(self.bid\_input)

bid\_layout.addWidget(self.bid\_btn)

layout = QVBoxLayout()

layout.addLayout(header\_layout)

layout.addLayout(wallet\_layout)

layout.addWidget(self.balance\_label, alignment=Qt.AlignCenter)

layout.addWidget(self.item\_label, alignment=Qt.AlignCenter)

layout.addLayout(bid\_layout)

self.setLayout(layout)

def create\_wallet(self):

try:

balance = float(self.wallet\_input.text())

if balance < 0:

raise ValueError("Balance cannot be negative.")

self.wallet\_balance = balance

self.balance\_label.setText(f"Balance: ${self.wallet\_balance:.2f}")

QMessageBox.information(self, "Wallet Created", "Your wallet has been created successfully!")

except ValueError:

QMessageBox.warning(self, "Invalid Input", "Please enter a valid positive number for the balance.")

def place\_bid(self):

try:

bid\_amount = float(self.bid\_input.text())

if bid\_amount <= 0:

raise ValueError("Bid amount must be greater than zero.")

if bid\_amount > self.wallet\_balance:

QMessageBox.warning(self, "Insufficient Balance", "You do not have enough balance to place this bid.")

else:

self.wallet\_balance -= bid\_amount

self.balance\_label.setText(f"Balance: ${self.wallet\_balance:.2f}")

QMessageBox.information(self, "Bid Successful", f"You have placed a bid of ${bid\_amount:.2f}.")

except ValueError:

QMessageBox.warning(self, "Invalid Input", "Please enter a valid bid amount.")

def go\_back(self):

try:

self.destroy()

obj=main\_ui()

obj.show()

except Exception as e:

traceback.print\_exc()

class profile\_ui(QDialog):

def \_\_init\_\_(self):

super(profile\_ui, self).\_\_init\_\_()

self.setWindowTitle("Settings")

self.setGeometry(275, 140, 900, 500) # Increase width but keep the height moderate

# MySQL Database connection

self.conn = sql.connect(

host="localhost", # Replace with your MySQL server details

user="root", # Replace with your MySQL username

password="sairam", # Replace with your MySQL password

database="aucsof\_ip" # Replace with your database name

)

self.cursor = self.conn.cursor()

# Create the table if it doesn't exist (MySQL syntax)

self.cursor.execute('''

CREATE TABLE IF NOT EXISTS users (

id INT AUTO\_INCREMENT PRIMARY KEY,

full\_name VARCHAR(255),

email VARCHAR(255),

phone VARCHAR(20),

address VARCHAR(255),

dob DATE,

bio TEXT,

linkedin VARCHAR(255),

password VARCHAR(255)

)

''')

# Example: Assuming we're editing the user with id 1 (modify this as per your logic)

self.user\_id = 1

# Font settings for UI elements

self.font = QFont("Garamond", 12)

self.heading\_font = QFont("Garamond", 22, QFont.Bold)

# Background color for header

self.tabsbg\_LBL = QLabel(self)

self.tabsbg\_LBL.setStyleSheet("background-color:rgba(0,12,95,205)")

self.tabsbg\_LBL.setGeometry(0, 0, 891, 80)

# Font settings for labels and input fields

self.LBL\_font = QFont("Garamond", 14, QFont.Bold)

# Scroll Area for the form

self.scrollArea = QScrollArea(self)

self.scrollArea.setObjectName(u"scrollArea")

self.scrollArea.setGeometry(QRect(20, 120, 861, 350)) # Increased width of scroll area

self.scrollArea.setWidgetResizable(True)

self.scrollAreaWidgetContents = QWidget()

self.scrollAreaWidgetContents.setObjectName(u"scrollAreaWidgetContents")

self.scrollAreaWidgetContents.setGeometry(QRect(0, 0, 860, 340))

self.scrollArea.setWidget(self.scrollAreaWidgetContents)

# Profile header label

self.profileheading\_LBL = QLabel(self)

self.profileheading\_LBL.setText("Profile Settings")

self.profileheading\_LBL.setGeometry(350, 20, 200, 40)

self.profileheading\_LBL.setFont(self.heading\_font)

self.profileheading\_LBL.setStyleSheet("background-color: rgba(255, 255, 255, 10); color : white")

# Back Button

self.back\_BTN = QPushButton(self)

self.back\_BTN.setText("Back")

self.back\_BTN.setFont(self.LBL\_font)

self.back\_BTN.setGeometry(800, 0, 100, 50)

self.back\_BTN.clicked.connect(self.going\_back)

self.back\_BTN.setStyleSheet("background-color: rgba(255, 255, 255, 10); color : white")

# Create the main layout for the scroll area

self.main\_layout = QVBoxLayout(self.scrollAreaWidgetContents)

self.main\_layout.setSpacing(20)

# Full Name Input

self.fullname\_input = QLineEdit(self)

self.fullname\_input.setFont(self.font)

self.fullname\_input.setPlaceholderText("Enter your full name")

self.main\_layout.addWidget(QLabel("Full Name", self))

self.main\_layout.addWidget(self.fullname\_input)

# Email Input

self.email\_input = QLineEdit(self)

self.email\_input.setFont(self.font)

self.email\_input.setPlaceholderText("Enter your email")

self.main\_layout.addWidget(QLabel("Email Address", self))

self.main\_layout.addWidget(self.email\_input)

# Phone Number Input

self.phone\_input = QLineEdit(self)

self.phone\_input.setFont(self.font)

self.phone\_input.setPlaceholderText("Enter your phone number")

self.main\_layout.addWidget(QLabel("Phone Number", self))

self.main\_layout.addWidget(self.phone\_input)

# Address Input

self.address\_input = QLineEdit(self)

self.address\_input.setFont(self.font)

self.address\_input.setPlaceholderText("Enter your address")

self.main\_layout.addWidget(QLabel("Address", self))

self.main\_layout.addWidget(self.address\_input)

# Date of Birth Input

self.dob\_input = QDateEdit(QDate.currentDate(),self)

self.dob\_input.setFont(self.font)

self.dob\_input.setCalendarPopup(True)

self.dob\_input.setDisplayFormat("yyyy-MM-dd")

self.main\_layout.addWidget(QLabel("Date of Birth", self))

self.main\_layout.addWidget(self.dob\_input)

# Bio Input

self.bio\_input = QLineEdit(self)

self.bio\_input.setFont(self.font)

self.bio\_input.setPlaceholderText("Tell us something about you")

self.main\_layout.addWidget(QLabel("Bio", self))

self.main\_layout.addWidget(self.bio\_input)

# Password Section

self.change\_pass\_label = QLabel("Change Password", self)

self.change\_pass\_label.setFont(self.font)

self.main\_layout.addWidget(self.change\_pass\_label)

self.old\_password\_input = QLineEdit(self)

self.old\_password\_input.setFont(self.font)

self.old\_password\_input.setPlaceholderText("Enter old password")

self.old\_password\_input.setEchoMode(QLineEdit.Password)

self.main\_layout.addWidget(QLabel("Old Password", self))

self.main\_layout.addWidget(self.old\_password\_input)

self.new\_password\_input = QLineEdit(self)

self.new\_password\_input.setFont(self.font)

self.new\_password\_input.setPlaceholderText("Enter new password")

self.new\_password\_input.setEchoMode(QLineEdit.Password)

self.main\_layout.addWidget(QLabel("New Password", self))

self.main\_layout.addWidget(self.new\_password\_input)

self.confirm\_password\_input = QLineEdit(self)

self.confirm\_password\_input.setFont(self.font)

self.confirm\_password\_input.setPlaceholderText("Confirm new password")

self.confirm\_password\_input.setEchoMode(QLineEdit.Password)

self.main\_layout.addWidget(QLabel("Confirm Password", self))

self.main\_layout.addWidget(self.confirm\_password\_input)

# Create a layout for buttons

self.button\_layout = QHBoxLayout()

# Save Changes Button

self.save\_btn = QPushButton("Save Changes", self)

self.save\_btn.setFont(self.LBL\_font)

self.save\_btn.setStyleSheet("background-color: #4CAF50; color: white")

self.save\_btn.clicked.connect(self.save\_changes)

self.button\_layout.addWidget(self.save\_btn)

# Cancel Button

self.cancel\_btn = QPushButton("Cancel", self)

self.cancel\_btn.setFont(self.LBL\_font)

self.cancel\_btn.setStyleSheet("background-color: #f44336; color: white")

self.cancel\_btn.clicked.connect(self.cancel\_changes)

self.button\_layout.addWidget(self.cancel\_btn)

# Add button layout to the main layout

self.main\_layout.addLayout(self.button\_layout)

# Load the current user data

self.load\_user\_data()

def going\_back(self):

# Logic to go back to the previous screen

self.destroy()

self.main\_uiobj = main\_ui()

self.main\_uiobj.show()

def load\_user\_data(self):

# Fetch user data from MySQL database (assuming the user ID is 1 for now)

self.cursor.execute("SELECT \* FROM users WHERE id=%s", (self.user\_id,))

user = self.cursor.fetchone()

if user:

self.fullname\_input.setText(user[1])

self.email\_input.setText(user[2])

self.phone\_input.setText(user[3])

self.address\_input.setText(user[4])

self.dob\_input.setText(user[5])

self.bio\_input.setText(user[6])

def save\_changes(self):

# Logic to save changes to MySQL database

fullname = self.fullname\_input.text()

email = self.email\_input.text()

phone = self.phone\_input.text()

address = self.address\_input.text()

dob = self.dob\_input.text()

bio = self.bio\_input.text()

old\_password = self.old\_password\_input.text()

new\_password = self.new\_password\_input.text()

confirm\_password = self.confirm\_password\_input.text()

# Simple password change check

if new\_password != confirm\_password:

QMessageBox.warning(self, "Error", "Passwords do not match!")

return

# Hash the password or store it securely (add hashing logic here if needed)

if new\_password: # Only update password if it's provided

password = new\_password

else:

password = old\_password # Or fetch the current password if unchanged

self.cursor.execute("""

UPDATE users SET

full\_name=%s,

email=%s,

phone=%s,

address=%s,

dob=%s,

bio=%s,

password=%s

WHERE id=%s

""", (fullname, email, phone, address, dob, bio, password, self.user\_id))

self.conn.commit()

QMessageBox.information(self, "Success", "Profile updated successfully!")

def cancel\_changes(self):

self.load\_user\_data()

if \_\_name\_\_=="\_\_main\_\_":

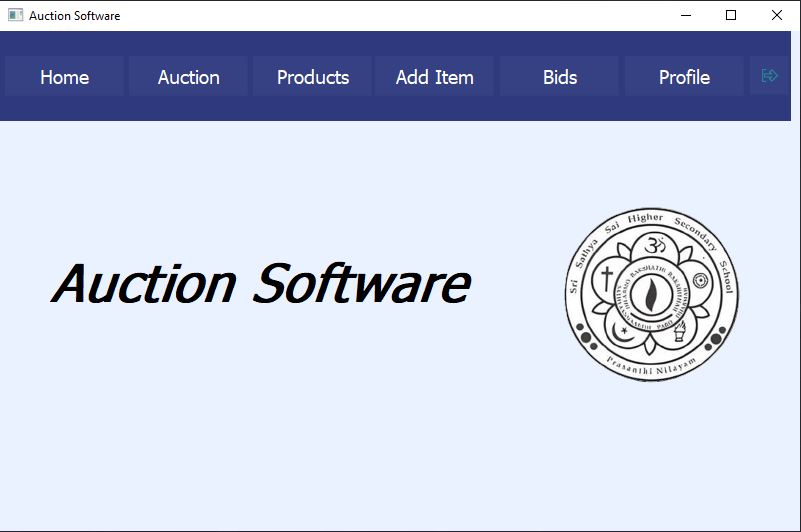
app = QApplication(sys.argv)

l = login()

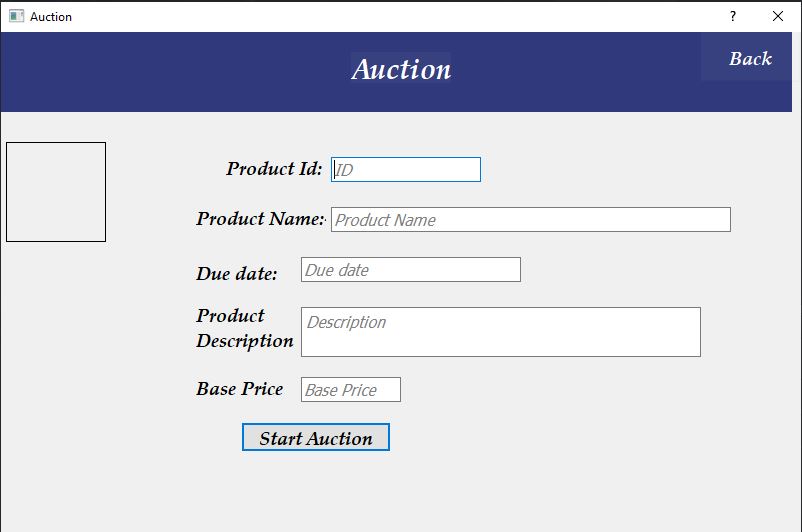
l.show()

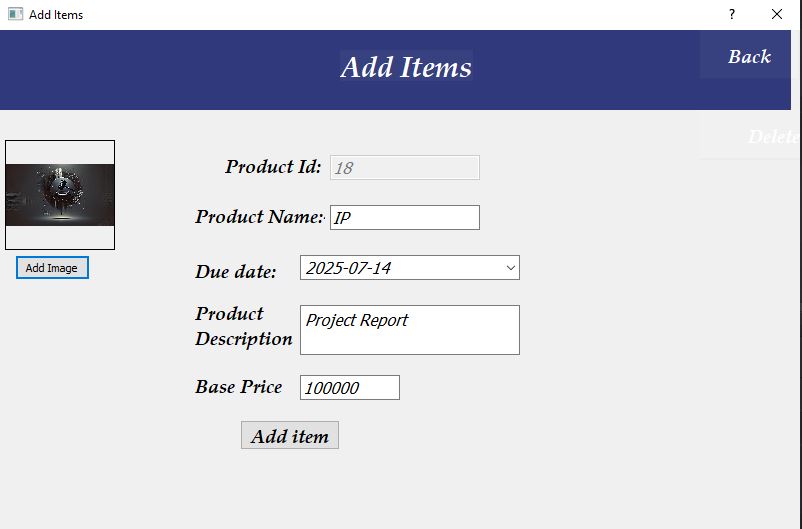
app.exec\_()

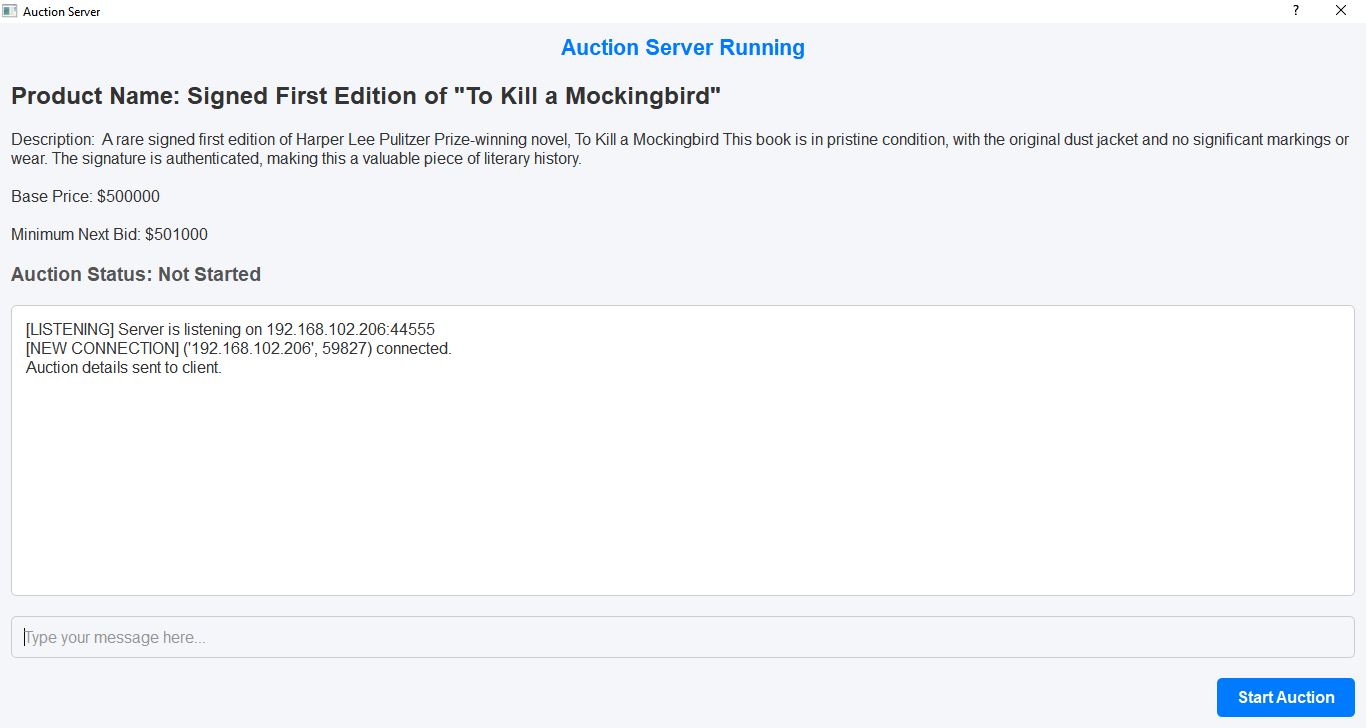
# Screenshots













# Future Enhancements

* Enable the platform to host multiple auctions at the same time, allowing users to participate in various auctions simultaneously.
* Introduce different user roles (e.g., admin, bidder, seller) with specific permissions to manage access and functionalities effectively.
* Support various auction formats such as Dutch, sealed-bid, and reverse auctions, catering to diverse user needs and preferences.
* Implement real-time notifications for bid changes, ensuring users receive instant updates without needing to refresh the page.
* Allow users to set a maximum bid amount that automatically raises their bid if they are outbid, streamlining the bidding process.
* Develop a mobile application to provide users with easy access to auctions and bidding from their smartphones.
* Integrate multiple payment gateways (e.g., credit cards, PayPal) for seamless transactions during and after auctions.
* Provide access to detailed auction histories, including past bids and winners, allowing users to analyze trends and make informed decisions.
* Enable users to rate and review sellers post-auction to build trust and assist future bidders in making informed choices.
* Introduce a verification process for high-value items to confirm authenticity, enhancing buyer confidence.

# System Requirements

For a smooth, fast and user-friendly experience, the following system requirements are recommended for the client user:

* A system with 8 GB RAM.
* An Intel(R) Core(TM) i3-6100 CPU @ 3.70GHz processor.
* A minimum screen size of 1366×768.

***Python 3.11*** which was used in the making of this project functions well with:

* Windows 7,10 or 11
* Mac OS X 10.11 or higher, 64-bit
* Linux: RHEL 6/7, 64-bit (almost all libraries also work in Ubuntu)
* 64-bit x86 CPU (Intel / AMD architecture). [ARM CPUs are not supported.](https://support.enthought.com/hc/en-us/articles/12515287428493)
* 4 GB RAM and 5 GB free disk space.

***MySQL 8.0*** which was used in the making of this project has the following requirements:

Minimum Hardware Requirements

* 2 GB RAM
* 2 CPU Cores
* Disk I/O subsystem applicable to a write-intensive database Recommended Hardware

**REQUIREMENTS**

* 4 CPU Cores or more
* 8 GB RAM or more

# Bibiliography

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* [www.w3schools.com](http://www.w3schools.com)
* www.github.com