Online Auction System using Python Django & Sqlite

PROJECT TITLE: Online Auction System

INTRODUCTION:

The Online Auction System is a web-based application developed using Python Django and SQLite. The system is designed to provide a platform for online auctions that enables bidders and sellers to participate in the auction process with ease. The system is divided into three main modules: Admin, Bidder, and Seller.

The Admin module manages the overall functioning of the auction system. It is responsible for managing sellers, bidders, and products available for bidding. The module allows the administrator to view bidding products and manage the bidding product categories and subcategories. The module also provides features to view participants and bid winners.

The Seller module allows sellers to add new bids, view products available for bidding, and track participant and winner lists. The module enables sellers to view the status of their bids and manage their inventory effectively.

The Bidder module allows bidders to participate in auctions by placing bids on products available for bidding. The module also enables bidders to view products and the list of winners.

This Online Auction System provides an efficient platform for users to participate in auctions and place bids on a wide range of products. With its user-friendly interface and robust functionality, the application is an ideal solution for conducting online auctions. The system is expected to enhance the user experience, increase the number of bids, and provide a seamless bidding experience.

MODULES:

Now let us know about the modules of our project. In our online auction system, We have three main modules.

1. Seller Module
2. Bidder Module
3. Admin Module

I will briefly explain these modules.

Seller Module

- Add Bid: The seller can add bids for their products, including the starting bid amount and bidding end time.
- View Products: The seller can view their products available for bidding, including the current highest bid amount.
- View Participants: The seller can view the participants who have placed bids on their products.
- View Winners: The seller can view the winners of their products' bidding process.
- Edit Profile: The seller can edit their profile information, such as their name, contact details, and address.
- Change Password: The seller can change their password for security purposes. The module requires the seller to enter their current password and then enter the new password twice to confirm the change.
- Logout: The seller can log out of the system to end the current session.

Bidder Module

- Bid: The bidder can bid on products by entering their desired amount. The system will notify the bidder if their bid is outbid.
- View Products: The bidder can view the available products for bidding, including the current highest bid amount and bidding end time.
- View Winners: The bidder can view the winners of the products they have bid on.
- Edit Profile: The bidder can edit their profile information, such as their name, contact details, and address.
- Change Password: The bidder can change their password for security purposes. The module requires the bidder to enter their current password and then enter the new password twice to confirm the change.
- Logout: The bidder can log out of the system to end the current session.

Admin Module

- Manage Seller: The admin can manage and view the seller accounts, including deleting their accounts if necessary.
- Manage Bidder: The admin can manage and view the bidder accounts, including deleting their accounts if necessary.
- View Bidding Products: The admin can view all the products that are currently available for bidding.
- Manage Bidding Product Category and Subcategory: The admin can manage the categories and subcategories of the products available for bidding, including adding, viewing, updating, and deleting them.
- View Participants: The admin can view the details of all the participants involved in the bidding process.
- View Bid Winners: The admin can view the details of the winners of each product that was up for bidding.
- Change Password: The admin can change their password for security purposes. The module requires the admin to enter their current password and then enter the new password twice to confirm the change.
- Logout: The admin can log out of the system to end the current session.

TECHNOLOGY USED:

BackEnd Logical LANGUAGE: Python

FRAMEWORK: DJANGO

Backend DATABASE: SQLite

Frontend LANGUAGE: HTML, CSS, JavaScript and BootStrap

SOFTWARE USED:
- Python Interpreter
- Django Framework
- Pycharm or VSCode editor
- Browser (Any - chrome, firefox etc)

BIBLIOGRAPHY:
- Wikipedia
- https://panjwanitutorials.com/
- https://www.geeksforgeeks.org/python-django/
- https://www.javatpoint.com/django-tutorial
- https://www.python.org/
- https://www.tutorialspoint.com/django/index.htm