System Study

Project Overview:

AntiqueTreasure is an online antique auction platform designed to facilitate the buying and selling of authentic antique items through live auctions. The platform aims to provide a secure and user-friendly environment for antique enthusiasts and collectors.

To What Extent the System is Proposed For:

The proposed system covers the entire antique auction process, from item listing and bidding to product delivery. It includes user management, auction management, verification, and delivery processes.

Specify the Viewers/Public Involved in the System:

The viewers/public involved in the system include administrators, sellers, bidders , and delivery team.

List of Modules Included in the System:

a. User Management
b. Item Listing
c. Bidding and Auction Management
d. Verification and Authentication
e. Delivery and Logistics
f. Premium Membership
g. Machine Learning Integration
h. Customer Support
i. Admin Dashboard

Identify the Users in Your Project:

- Admin: Responsible for overall platform management.
- Seller: Lists antique items for auction.
- Buyer: Participates in live auctions.
- Prime Customer: Accesses exclusive auctions.
- Delivery Team: Ensures safe product delivery.
- Verification Team: Physically authenticates items.
- Service Team: Provides customer support.

System is Related to Which Firm/Industry/Organization:

The system is related to the antique auction industry

Questionnaire to Collect Details About the Project:

1) **What is the main objective of AntiqueTreasure?**

   The main objective of AntiqueTreasure is to create a secure and user-friendly online platform where antique enthusiasts and collectors can buy and sell authentic antique items through live auctions. We aim to provide a trustworthy marketplace for antique lovers to discover unique treasures while ensuring the authenticity of listed items..

2) **How do you plan to ensure the authenticity of listed antique items?**

   To ensure authenticity, we have a dedicated verification team comprising experts in antique authentication. Sellers must submit their items for physical verification before listing them in high-value auctions..

3) **How do you currently manage user authentication and authorization?**

   user authentication and authorization are managed using Django's built-in authentication system, which includes user registration, login, and permissions. We plan to enhance security by implementing two-factor authentication and custom authorization roles for different user types.

4) **How do you monitor the performance of your aution management?**

   As a student managing AntiqueTreasure, I'll monitor auction management performance through key performance indicators (KPIs) like user engagement, auction success rates, and user satisfaction surveys. Regularly analyzing data and seeking feedback from users will guide improvements**.**

5) **What is the expected timeline for implementing the system?**

   The expected timeline for full implementation is approximately 04-06 months.

Feasibility study

Technical Feasibility:

Technical Requirements: Evaluate whether the proposed AntiqueTreasure platform is technically achievable given its unique requirements, including a web-based architecture, real-time data processing, and machine learning integration.

Technology Assessment: Assess the availability and compatibility of technologies like Django, HTML, CSS, and machine learning modules for functionalities like price prediction and user behavior analysis..

Data Integration: Examine how well the system can integrate with existing data sources and databases to ensure a seamless transition.

Operational Feasibility:

Workflow Analysis: Study the current processes of managing antique auctions and identify how the new system will impact existing processes, with a focus on product listing, auction management, and user support.

User Adaptability: Assess whether stakeholders, including administrators, sellers, buyers, and prime members, can easily adapt to the new system's features and functionalities. Consider their ability to navigate auctions and use chat features.

Change Management: Plan strategies for a smooth transition to the new system, including user training, communication plans for stakeholders, and adjustments to auction workflows.

Economic Feasibility:

Cost Estimation: Calculate the total costs associated with the AntiqueTreasure project, including development, server infrastructure, machine learning tools, personnel training, and ongoing operational expenses like server maintenance and customer support.

Benefit Estimation: Estimate potential benefits, including improved efficiency in antique auction management, reduced administrative costs, and enhanced customer satisfaction, leading to increased participation in auctions and potential revenue generation.

Revenue Generation: Identify potential revenue streams, such as premium membership fees for exclusive antique auctions and consultancy services for sellers based on data insights generated by the system.