Vision Document

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1. Introduction

1.1. Purpose statement

This document explains what Gallery Gavel is and why it matters. Gallery Gavel is a website where people can buy and sell art, old things, and special collections through online auctions. We'll talk about;

1. What Gallery Gavel can do
2. Who it's for
3. Why it's good for business

It aims to show how Gallery Gavel works, how it helps people who use it, and why there's a need for it in the market.

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1.2. Document scope

This document applies to **Gallery Gavel**, a platform designed for buying and selling unique art pieces, antiques, and vintage collectibles through online auctions. The technology ensures authenticity and confidence throughout the process by supporting safe bidding, carefully selected listings, and trustworthy transactions between buyers and sellers. It is made to make it simple for professional galleries and independent merchants to market their goods and for collectors to find unique and priceless products.

2. Positioning

2.1. Business Opportunities

The market for rare, genuine, and vintage goods is expanding, but buyers and sellers frequently have trouble locating a reliable online marketplace. Sellers may reach a wide audience of collectors and enthusiasts by offering a safe, carefully managed auction atmosphere on **Gallery Gavel**, where buyers can comfortably bid on one-of-a-kind artwork and collectibles. This platform bridges a need in the online market by offering a dependable, effective means of bringing together buyers and sellers of valuable, unique products.

2.2. Problem statement

The problem of	Lack of a dedicated, reliable marketplace for secure, curated auctions for the purchase and sale of original artwork, antiques, and vintage collections
affects	Sellers of rare, valuable artifacts, art collectors, and vintage collectors looking for a trustworthy marketplace with high-quality products and safe transactions
The impact of which is	Missed opportunities for buyers and sellers to interact in a professional setting, restricted access to genuine, carefully chosen collections, and a lack of trust in the transaction process
A successful solution would be	An online auction site called Gallery Gavel provides carefully selected listings, transparent live auctions, and safe transactions. The platform would include thorough item descriptions, origin details, and professional evaluations to guarantee authenticity. While vendors gain from numerous price options, marketing capabilities, and a worldwide audience, users would appreciate an easy-to-use, simple design with personalized recommendations. For those who enjoy art and antiques, the platform provides a reliable and entertaining auction experience with its embedded notifications, smooth payment procedures, and extensive buyer-seller protections.

2.3. Product Position statement

For	Buyers of art, collectors of antiques, and vendors of unique and vintage items
Who	Need a reliable, carefully designed platform with safe bidding and knowledgeable evaluations for buying and selling artwork, antiques, and vintage collections.
Gallery gavel	Is an online auction platform
that	provides expert evaluations safe transactions, real-time auctions, selected listings of artwork and vintage items, and an easy-to-use interface.

unlike	General online auction sites usually lack a focus in fine art and antiques, don't offer professional reviews, and provide little security for costly transactions.
Our product	offers transparent bidding, complete authenticity information, safe payment methods, and access to a global audience of collectors and enthusiasts, all of which contribute to a smooth and enjoyable experience for both buyers and sellers.

2.4. Target Audience

Art collectors, antique enthusiasts, and vintage lovers who are searching for a reliable marketplace to purchase and sell one-of-a-kind goods are among Gallery Gavel's target customers. Whether they are purchasing great art, uncommon antiques, or vintage collectibles, this audience is interested in the origin, authenticity, and history of the items they purchase. Furthermore, Gallery Gavel serves individual sellers who wish to auction off their own collections in addition to professional sellers like galleries and dealers. The platform's secure bidding and user-friendly interface are intended to draw both buyers and sellers that value reliability, convenience, and high standards in the auction process.

3. Stakeholders and User Descriptions

Non-user Stakeholders

name	description	responsibilities
System analyst	collaborates with other stakeholders to fully understand their requirements and collects the data required to create the system.	interacts with stakeholders to determine the functionalities of the platform, specifies the actions that users will require, and contributes to the overall design of the system.
Requirements specifier	converts the needs gathered by the system analyst into accurate, detailed requirements that the development team can stick to.	Breaks down the features into accurate functional and non-functional requirements,

		ensuring each aspect of the platform's functioning is made clear.
Technical reviewer	ensures that, during development, all of the platform's technical components undergo thorough testing and correspond to the required standards.	provide technical comments, checking features and ensuring that everything has been built in accordance with specifications as well as standards.
Software architect	Leads the technical development of the platform, making important decisions about how everything will work and fit together.	Designs the overall system, ensuring it's maintainable, secure, and scalable. Makes sure the platform's architecture meets both current and future needs.
Project manager	supervises the platform's technological development and makes critical decisions regarding how components will function and integrate together.	monitors the project, allocating work, interacting with stakeholders, and making sure that deadlines are fulfilled. keeps everyone's attention on the main objectives of the project.
Market analyst	ensures that there is a market for the platform's features and services by identifying how it fits into the market.	provides recommendations on what features will be most appealing and competitive in the art and antiques auction market, gathers information on user preferences, and analyzes market trends.

user Stakeholders

Name	Description	Responsibilities	Stakeholder
Art seller	Primary user who lists art, antiques, or vintage items for auction	uploads goods for sale, offers thorough origin and descriptions, establishes reserve prices, maintains offerings, interacts with purchasers, and verifies sales.	self
Art buyer	End user who bids on items and makes purchases	explores the auction catalog, submits bids, monitors the status of auctions, succeeds in auctions, and safely completes payments.	self
Customer Support	End user who assists with platform operations	keeps an eye on platform activity, assists users with problems related to their accounts or transactions, settles conflicts, and makes sure that buyers and sellers are in constant communication.	self
Auctioneer	User responsible for overseeing live auctions	supervises the bidding process, announces item descriptions, conducts live auctions, and ensures all auction rules are followed.	self
Listing moderator	User who manages the quality and authenticity of listings	Reviews and confirms the authenticity and quality of the art and antiques listed, makes sure the platform's regulations are followed and approves listings.	self

4. High Level Features

4.1. Artist Showcase
A portal where artists can display their work with high-quality images, descriptions, and pricing.

4.2. Real-time Bidding
An interactive bidding system with instant updates on bids and auction time.

4.3. Global marketplace
Connects buyers and sellers worldwide, allowing artists to reach a global audience.

4.4. Secure authentication
Strong security measures to protect user accounts and sensitive information.

4.5. Streamlined Payment Processing
A seamless system for secure transactions between buyers and sellers.

4.6. Personalized Notification
Custom alerts for bids, auctions, and account activities to keep users engaged.

4.7. Digital Ownership Transfer
Secure transfer of artwork ownership upon purchase.

4.8. Advanced Search and Filtering
A powerful search engine with filters for category, medium, price, and style.

4.9. Artwork Valuation
Provides estimates for artwork to help buyers make informed decision

4.10. Artist Profile Management
Allows artists to manage their bios, artwork, and sales history.

4.11. Buyer Profile Management
Enables buyers to manage their purchase history, bids, and account settings.

4.12. Auction Calendar
Displays upcoming auctions to help users plan for future events.

4.13. Artwork Shipping and Handling
Facilitates safe and efficient shipping of purchased artwork.

4.14. Customer Support
A dedicated team to assist with any user concerns.

4.15. Rating and Review System

Allows users to rate and review experiences, fostering trust within the community.

5. Product Overview

Here's a detailed Product Overview for the **"Gallery Gavel"** project:

5.1. Product Perspective

With the use of an online platform called **Gallery Gavel**, artists may post their artwork , antiques, and vintage collections where interested buyers can place real-time bids on them, just like in traditional auctions. By making domestic and international markets equal, the platform will provide artists, or antique sellers more visibility and allow buyers from anywhere in the world to participate in auctions without being limited by location. By eliminating locational problems and enabling communication between artists and purchasers in an easy online environment, the marketplace aims to transform art auctions.

5.2. Summary of Capabilities

Capabilities	Description
Artist/Seller Portal:	Artists can sign up and post pictures and information about their works, such as titles, starting prices and ending bid amounts, and descriptions.Sellers with antique or vintage items can do the same with their items.
Bidding System:	The bidding system allows users to bid on artwork, and the platform instantly updates the top bid. The amount of time left in each auction will be shown by a countdown timer.
Global Access:	By enabling buyers from all over the world to view, bid on, and buy artwork from different artists, this platform promotes a worldwide art community.
User Authentication:	Safe user registration with verification processes that maintain platform trust for artists and bidders equally.

Payment Processing:	Integrated payment system ensures that the top bidder may safely finish their purchase while allowing smooth transactions once auctions end.
Notifications:	Bidders receive automatic notifications when they are about to lose an auction or when they have been outbid.
Ownership Transfer:	After payment confirmation, ownership information is digitally transferred to protect the artist's creative works and guarantee the buyer's legitimacy.
Art Categories and Filters:	To make it easier to find new works, users can browse artwork according to categories such as media, price range, style, etc.

5.3.   Assumptions & Dependencies

5.3.1.   Artist and Buyer Trust

The Gallery Gavel platform's ability to manage safe payments and legal ownership transfers must be trusted by both artists and purchasers.

5.3.2.   Reliable Payment Gateways
The Gallery Gavel platform makes the assumption that all payments will be handled safely by third-party payment companies (like PayPal, Easy Paisa, Jazz Cash etc).

5.3.3.   Art Upload Regulations
In order for their work to be posted, artists must accept the Gallery Gavel platform's guidelines, which specify what types of works must be unique and legal with their country's or region's law

5.3.4.   Internet Access
In order to engage in auctions, customers will need a reliable internet connection as the site will be online

5.3.5.   Third-Party Integration
The Gallery Gavel Platform might use third-party applications or servers to handle payments and provide features like email notifications and real-time bidding updates, and payment processing

5.4. Cost & Pricing

5.4.1. Platform Fees:

A small percentage **(5% - 20%)** of each successful auction may be charged as a **Gallery Gavel platform** fee from the seller, while buyers may pay small service fees for processing their payments.

5.4.2. Subscription Services:

Artists may choose to sign up for **Gallery Gavel** premium services that include longer auction times, better placement in the market, and more promotion for their artwork.

5.4.3. Transaction Costs:

If applicable, buyers and sellers additional expenses for overseas shipping or payment processing fees will be paid by them.

Development Costs:

Developers:
can be 4-6
Cost Per Item: Rs.100,000/year

Developers:
Can be 1-2
Cost Per Item: Rs.60,000/year

Testing:
Can be 2-3 testers
Cost Per Item: Rs.40,000/year

Project Manager:
Can be 1
Cost Per Item: Rs.110,000/year

Hardware Costs:

Servers:
can be 2-3
Cost Per Item: Rs.50,000/year

Printers:
Can be multiple
Cost Per Item: Rs.30,000/year

Computers/Other Hardware:

Can be multiple
Cost Per Item: Rs.50,000/year

Third-Party Softwares and Licenses:
Development Softwares:
can be 1-2
Cost Per Item: Rs.20,000/year

Design Softwares:
Can be 1-2
Cost Per Item: Rs.20,000/year

Database/Licenses:
Can be 1-2
Cost Per Item: Rs.45,000/year

Maintenance Cost:
Cost Per Item: Rs.20,000/year

Other Costs:
Office Items:
can be multiple
Cost Per Item: Rs.50,000/year

Tax/Fees:
Cost Per Item: Rs.80,000/year

Total Estimated Cost
The **total cost** is estimated to be around: **Rs.1,500,000/year.**
These estimates provide a broad range based on typical costs for
similar projects. Adjustments should be made based on specific
project requirements, team size, and regional cost variations.

5.5. Licensing & Installation

5.5.1. **Licensing:**The **Gallery Gavel platform** will provide a website from which buyers and artists can use a web browser to access the service without installing any software. Features such as **Gallery Gavel's** expanded gallery space or premium auction slots are available for license by artists.

5.5.2. **Installation**: Users won't need to download or install anything locally because the **Gallery Gavel platform** will be hosted online and accessible from any web browser.

6. Constraints

Here's a list of constraints for the **Gallery Gavel Project**:

6.1. Security:Security is crucial to protect user data and maintain trust:

6.1.1. **Authentication and Authorization:** The system allows all users, including buyers and artists,to create secure accounts with two-factor authentication (2FA) and strong password before they can perform sensitive actions like uploading original artwork or making high-value bids on antique or vintage items.Users should only be able to access features that are related to their responsibilities through using role-based access control (for example, buyers can't modify ads).

6.1.2. **Data Encryption:**All user communications, financial information, and personal data must be encrypted in the system.The system should encrypt sensitive data, such as financial transactions and personal information.

6.1.3. **Fraud Prevention:**The system should use fraud detection algorithms to find fake accounts, suspicious bidding patterns, and possible fraud.The system should verify identity required for high-value transactions to be able to stop fraud.

6.1.4. **Content Security:**Artwork or Vintage Item that has been uploaded and the data with it must be protected from theft or illegal access.The system should use **Gallery Gavel's** copyright mark to stop unlawful theft of high-resolution photos.

6.2. Usability

All users should be able to access and easily use the **Gallery Gavel's platform**:

6.2.1. **Simple Interface:**The user interface should be an easy-to-use interface that allows purchasers to place bids as well as artists to upload their artwork. Important features must be simple to use and come with instructions.

6.2.2. **Mobile Accessibility:**To allow consumers to participate in auctions from any location, the system needs to be responsive and smartphone-friendly.

6.2.3. **Multilingual Support:** The system should be providing customer service and user interface translation in addition to support in several languages to reach a worldwide audience.

6.2.4. **User Training:**The system should make sure new users have simple-to-follow training procedures so they can get started using the platform right away.

6.3. Responsiveness:

The **Gallery Gavel's platform** must provide real-time updates and maintain high performance:

6.3.1. **Real-Time Bidding:** The system should make sure that there are no obvious delays in the real-time updating of bids, particularly in the last phases of an auction.

6.3.2. **Notification System:**The system should have a real-time notification system to notify users when an auction they are in is about to end or if they are being outbid.

6.3.3. **Global Reach:**The system should make sure the platform functions properly on an international scale and offers users a consistent experience even with different internet speeds and networks.

6.3.4. **Quick Load Times:**The system should ensure that the site loads as fast as possible even with large amounts of data and high-quality photos to avoid delays when browsing and bidding.

6.4. Capacity:

The **Gallery Gavel's platform** must scale effectively to handle growth:

6.4.1. **Scalability:** The system should provide a platform that can support thousands of users at once without experiencing any performance delay, especially during periods of high auction activity.

6.4.2. **Storage:**The system should have sufficient storage space available for high-resolution photos and data related to artwork or items for

auction. To handle expansion, make use of online storage options that are scalable.

6.4.3. **Bandwidth:**The system should make sure the user has enough bandwidth to manage heavy traffic during auctions and the continuous upload and download of huge image files.

6.4.4. **Auction Load:**The system should allow many continuous auctions to run without stuttering, guaranteeing smooth and effective bidding operations.

6.4.5. **Backup and Recovery:**The system should have reliable backup and recovery processes to protect against data loss and guarantee platform reliability.

6.5. Legal and Compliance Intellectual Property:

The system should verify each piece of art on the list is legally held or authorized for sale in order to safeguard intellectual property rights and prevent lawsuits.

6.5.1. **Transaction Regulations:** The system should be according to financial transaction laws per country, particularly when dealing with high-value transactions.These constraints address key aspects of security, usability, responsiveness, capacity, and legal compliance, ensuring a secure, user-friendly, and scalable platform.