**Second Product or Crafted Product Selling E-Store**

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# **Abstract: -**

The "Second Product or Crafted Product Selling E-Store" project is an innovative and inclusive online marketplace designed to cater to a diverse range of products, including old vintage items, high-priced commodities, high-end vintage electronics, and modern short-term used products. This platform represents a unique fusion of sustainability, craftsmanship, and technological sophistication.

Our e-store provides a seamless and secure shopping experience for users who can both sell and buy products within a unified environment. Whether users are passionate collectors, artisans, or simply individuals looking to buy or sell unique items, our platform offers tailored solutions to meet their distinct needs.

# **Modules: -**

* **USER: -**
  + Allows individuals to register, create user profiles, and engage as both sellers and buyers.
  + Provides tools for listing products, managing orders, and facilitating secure transactions.
  + Enables communication between users and access to their transaction history, ratings, and reviews.
* **ADMIN: -**
  + Empowers administrators to oversee and manage the overall platform.
  + Includes features for user and seller management, content moderation, and analytics.
  + Provides tools for ensuring platform security and adherence to policies.
* **QUALITY TESTER: -**
  + A specialized module for assessing and verifying product quality.
  + Offers expertise in authenticating and verifying vintage, high-priced, and modern short-term used products.
  + Conducts assessments of product condition, authenticity, and functionality.
  + Generates quality reports, provides certification, and assists in dispute resolution.

# **Functionalities in Main-Project: -**

## **USER MODULE FUNCTIONALITIES: -**

* **User Registration and Authentication: -**
  + Allow users to create accounts with unique usernames and passwords.
  + Enable registration through email, social media, or phone number.
  + Implement multi-factor authentication for security
* **User Profiles: -**
  + Enable users to create and customize their profiles with personal information, profile pictures, and contact details.
  + Display user ratings, reviews, and transaction history.
* **Product Listings: -**
  + Allow users to list products for sale, including detailed descriptions, images, pricing, and shipping information.
  + Provide options for categorizing and tagging products.
* **Shopping and Cart Management: -**
  + Allow users to add items to their shopping cart, edit quantities, and proceed to checkout.
  + Display a summary of the items in the cart and their total cost.
* **Wishlist and Favourites:**
  + Allow users to create Wishlist’s and mark items as favourites for easy access and future reference.
  + Enable users to receive notifications when Wishlist items go on sale or become available.
* **Notification Preferences:**
  + Provide users with the ability to customize their notification preferences for order updates, promotions, and personalized recommendations.
* **Shipping and Delivery Tracking with Notification:**
  + Enable users to track the status of their orders, including shipping and delivery updates.
  + Integrate with shipping carriers' APIs to provide real-time tracking information.
* **Image Recognition and Product Tagging (Seminar):**
  + Utilize image recognition models to automatically tag and categorize product images based on visual features such as colour, shape, and pattern.
  + Enhance search and filtering capabilities by allowing users to find products using visual search queries.
* **3D Image Model For Product Description:**
  + Creating a 3D model for product descriptions can greatly enhance the customer's understanding and visualization of the product. Here's how you can approach it.
* **Product Recommendation**
  + Implementing a robust product recommendation system, you can provide personalized shopping experiences to users, increase customer engagement and retention, and drive revenue growth for your e-commerce business.

## **ADMIN MODULE FUNCTIONALITIES: -**

* **User and Seller Management:**
  + Admins can view, edit, and manage user and seller accounts.
  + Suspend or ban users or sellers violating platform policies.
* **Add or Remove Quality Tester**
  + Admin can Add Quality Tester
  + Admin can Manage, Notify, Rate and Give Salary to Quality Tester
* **Quality Tester Management**:
  + Assign specific products or categories to quality testers for evaluation.
  + Allow testers to submit detailed reports and assessments of product quality, authenticity, and adherence to standards
  + Allow to Manipulate Tester Salary Dispense and Control Over it
* **Performance Analytics and Reporting:**
  + Provide admins with access to performance analytics and reporting tools to track key metrics such as user engagement, sales trends, and product performance.
  + Generate custom reports and insights to inform decision-making and strategic planning.
* **Operational Cost Management**
  + Operational cost management involves optimizing and controlling the expenses associated with running a business or organization.
  + Implementing these operational cost management practices, organizations can achieve greater financial stability, improve profitability, and remain competitive

## **TESTER MODULE FUNCTIONALITIES: -**

* **Product Quality Testing and Rating**
  + Tester will be checking Products Quality on foot introduce tester’s matrix.
  + Tester also verify user Product Values.
* **Checklist Route Mapping**
  + Tester will be routed with Optimized route map.
  + It would be much more economically feasible manner with Short Distance.