

# SwapVista

## Online Auctioning System

### Project Overview

**Project Name:** SwapVista

**Tech Stack:** Spring Boot (Java) with JWT Authentication, React Js & MySQL

### Project Introduction

Swapvista is a groundbreaking platform designed to facilitate the seamless exchange of used products through a sophisticated online auction system. Utilizing state-of-the-art technologies such as Spring Boot for the backend, React Js for the frontend, and MySQL for database management, this project seeks to redefine the online auctioning experience. Its core principles are to provide users with a secure, transparent, and user-friendly environment.

### Features

#### 1. Customer Features:

Search Functionality:

Customers can delve into a vast array of products through a comprehensive search mechanism. The system allows for both category-based exploration, enabling users to browse specific types of items, and name-based searches, providing a precise and efficient way to find desired Products.

Product Details Page:

Each listed product boasts an extensive details page, offering potential buyers a comprehensive overview. From product specifications to seller information, this feature ensures informed decision-making before engaging in the bidding process.

### Bid Operations:

Users can list items for auction across various categories and place bids on available listings anonymously.

With auctions concluding at seller-set expiration times, Swapvista guarantees fairness and efficiency in every transaction.

### Wallet Management:

To streamline financial transactions, buyers and sellers are equipped with dedicated wallets.

The system automates the process of debiting from the buyer's wallet upon successful bidding and crediting the seller's account, ensuring a seamless and transparent financial interaction.

## **2. Admin Features:**

### User Management:

Administrators wield the authority to manage user accounts, including the creation and oversight of other admin accounts. This hierarchical control enhances system security and ensures efficient management of all registered customers.

### Product and Category Management:

Admins contribute to the platform's richness by adding new product categories dynamically. The comprehensive CRUD operations empower administrators to manage products and categories efficiently, adapting to the evolving needs of the marketplace.

### Order Management:

Administrators have an extensive overview of all orders, providing a centralized platform for order tracking and management. This feature facilitates quick and informed decision-making for efficient system administration.

## **User Modules**

### **1) Administrator:**

Administrators play a pivotal role in overseeing the system's overall functioning. Their responsibilities include user authentication, creation of additional admin accounts for controlled access, and supervision of all aspects related to products, orders, and customer management.

### **2) Customer (Buyer and Seller):**

Customers are provided with a feature-rich environment for a personalized and engaging experience. From advanced search capabilities to anonymous bidding, CRUD operations for managing bids, a seamless registration process, and user-friendly wallet management, the customer module ensures a holistic and user-centric approach.

## **Functional Modules**

### **1. User Authentication Module:**

Ensuring robust security measures, the user authentication module guarantees secure access for administrators, customers, and delivery personnel. This is essential for maintaining the integrity of the entire system.

### **2. Customer Module:**

The customer module is a comprehensive environment that offers a plethora of features. From advanced search capabilities, bidding, and wallet operations, it creates an immersive and user-friendly space for customers to engage with the platform.

### **4. Product Module:**

The product module manages the entire lifecycle of products on the platform. From the initial posting to detailed information pages, it ensures that each product is presented in a compelling and informative manner.

## **5. Bidding Module:**

At the heart of the online auction experience, the bidding module facilitates fair and transparent bidding. It ensures that the bidding process is conducted with integrity, providing users with a positive and trustworthy experience.

## **6. Order Module:**

The order module manages the lifecycle of orders, from creation to successful delivery. It encompasses order tracking, status updates, and comprehensive management features, contributing to a seamless and efficient order fulfillment process.

## **7. User Wallet Module:**

The user wallet module manages financial transactions between buyers and sellers. By automating the debiting and crediting process, it ensures secure and transparent dealings, enhancing the overall financial experience on the platform.

## **Conclusion**

In conclusion, Swapvista is poised to set a new standard for online auctions. With its detailed features, user-centric modules, and functional modules, the project promises not just a platform for buying and selling but a comprehensive and engaging experience for users participating in transparent and efficient auctions.