Software Requirement Specification Document

ArtisanHub

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1 Project Scope and Description

1.1 Project Scope

ArtisanHub is an e-commerce platform designed to connect local artisans and customers. It allows artisans to showcase and sell their products, while customers can browse, filter, and purchase these unique, handmade items. The platform will streamline the process of listing products for artisans and simplify the purchasing experience for customers.

1.2 Project Description

The platform will include:

- A product catalog where users can browse and search for items.

- User registration and login systems for customers and admins.

- A secure checkout system that processes payments and generates order confirmations.

- Admin features to manage products, orders, and users.

- Responsive design for a seamless experience across all devices.

2 Functional Requirements

2.1 Product Listings with Descriptions and Prices

- Admin can add, update, and delete product listings.

- Each product will have a name, description, price, and image.

- Users can view all product listings and detailed product information.

2.2 User Registration and Login System

- Users can register by providing their name, email, and password.

- Email verification is required to activate the account.

- Browsing is allowed without registration, but checkout requires an account.

- Users can log in using their email and password.

- Admins have a separate login with additional authentication measures.

- Password recovery options must be available for users who forget their passwords.

2.3 Shopping Cart System

- Users can add products to the shopping cart.

- Users can view and update the quantity of items in the cart.

- The total price is automatically calculated based on selected items.

2.4 Order Summary and Checkout Process

- Users can view a summary of items in the cart before placing an order.

- Users can provide shipping details and payment information at checkout.

- A confirmation message or email is sent after a successful order.

2.5 Product Categorization and Search Filters

- Products can be categorized (e.g., by type, price range).

- Users can filter products by categories, price, or relevance.

- Search functionality allows users to find products by name or keyword.

3 Non-Functional Requirements

3.1 Performance

- The website should load within 2-3 seconds.

- The system should handle up to 50 concurrent users.

3.2 Usability

- The interface should be simple and user-friendly for easy navigation.

- The design must be responsive for desktop and mobile devices.

3.3 Security

- User passwords should be encrypted.

- Only the admin can modify product listings and manage orders.

- All payment-related processes should use HTTPS to ensure secure transactions.

3.4 Scalability

- The system should support future expansion, like adding more products or categories.

3.5   Reliability

- The system should have minimal downtime, ensuring 99% availability.