Software Requirements Specification (SRS)

For

Ecommerce website

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1. Introduction

The E-commerce Website is a platform designed to facilitate online shopping for users. It allows users to browse products, add them to their cart, search for specific items, and complete the checkout process. The website is built using HTML, CSS, and JavaScript for the frontend, and Flask with SQLite for the backend.

2. Functional Requirements

2.1 Product Management

Admin can add new products to the inventory.

2.2 Product Browsing

Users can browse through the list of available products.

Users can view details of a specific product.

Users can search for products by name.

2.3 Shopping Cart

Users can add products to their shopping cart.

Users can view the contents of their shopping cart.

Users can remove products from their shopping cart.

2.4 Checkout Process

Users can proceed to checkout from their shopping cart.

Users can review their order summary before finalizing the purchase.

Users receive a confirmation message upon successful completion of the checkout process.



3. Non-Functional Requirements

3.1 Performance

The website load quickly and respond to user actions promptly.

The system able to handle a large number of concurrent users without significant performance degradation.

3.2 Usability

The user interface is intuitive and easy to navigate.

Error messages are informative and guide users towards resolving issues.

4. System Architecture

The website follows a client-server architecture, with the frontend implemented using HTML, CSS, and JavaScript, and the backend implemented using Flask and SQLite. The system uses RESTful APIs for communication between the client and server.

5. Data Model

The system uses an SQLite database to store user information, product details, and order history.

6. Glossary

Admin: A user with administrative privileges who can manage products and user accounts.

User: user are able to purchase the products.

Shopping Cart: A virtual cart where users can store selected products before proceeding to checkout.