**Sports Apparel and Footwear Recommendation System**

**ABSTRACT**

The Sports Apparel and Footwear Recommendation System is a user-friendly web application designed to enhance the shopping experience for sports enthusiasts. It features a responsive interface for browsing categories like clothing, footwear, bags and sports accessories, along with a secure sign-in page, shopping cart and checkout system. Each section displays images of products, prices, discount rates, product descriptions and customer rating options. An AI-powered recommendation system provides personalized product suggestions and outfit matching based on user preferences and behavior. The frontend will be developed using HTML, CSS and JavaScript, ensuring a responsive and visually appealing design that works across all devices. On the backend, Python with Flask or Django can be used to handle user data, product management and cart functionality, ensuring a robust and scalable structure. For data storage, a database like SQLite or MySQL will be implemented to securely manage user information, product details and order history. To enhance user experience, an AI-powered recommendation engine will be developed using Python libraries like scikit-learn or TensorFlow, providing personalized product suggestions and outfit combinations based on user preferences, purchase history and browsing behavior. By combining these technologies, the project aims to deliver a feature-rich, intelligent and enjoyable shopping platform.

**Users:**

* Customers
  + Sign in, browse products, add to cart, checkout and leave ratings/reviews.
  + Personalized recommendations.
* Admin

• Manage users, products, orders, and view sales analytics.

**Features:**

* **User Registration:**
  + Sign-up/sign-in, profile management.
* **Product Browsing and Filtering:**
  + Categories, product images, descriptions, prices and ratings.
  + Filters for size, color, price and discounts.
* **Shopping Cart:**
  + Add/remove items.
* **Ratings & Reviews:**
  + Customer ratings and reviews for products.
* **AI-Powered Recommendations:**
  + Personalized suggestions and outfit matching based on user behavior.