

# Simple Design Document - SportyShoes.com

## 1. Overview

SportyShoes.com is an e-commerce website dedicated to the sale of sports shoes. The primary objective is to develop a prototype that showcases the essential features of the application. This document outlines the key functionalities and design considerations for the SportyShoes.com project.

## 2. Functional Requirements

### 2.1 Admin Panel

#### 2.1.1 Admin Login

- Objective: Allow administrators to securely log in to the admin panel.
- Details: Implement a login page with authentication mechanisms.

#### 2.1.2 Change Password

- Objective: Enable administrators to change their passwords.
- Details: Include a functionality within the admin panel to change the password securely.

## **2.2 Product Management**

### **2.2.1 Add/Edit/Remove Products**

- Objective: Provide the admin with the ability to manage products.
- Details: Create forms for adding, editing, and removing products from the inventory.

### **2.2.2 Product Categorization**

- Objective: Improve organization by categorizing products.
- Details: Implement a system to assign categories to products for easy navigation.

## **2.3 User Management**

### **2.3.1 View User List**

- Objective: Allow the admin to view a list of users who have signed up.
- Details: Create a user management page displaying user details.

### **2.3.2 Search Users**

- Objective: Enable the admin to search for users.
- Details: Implement a search functionality based on user attributes.

## **2.4 Purchase Reports**

### **2.4.1 Generate Reports**

- Objective: Allow the admin to generate purchase reports.
- Details: Design a reporting system that compiles purchase data.

### **2.4.2 Filter Reports by Date and Category**

- Objective: Provide filtering options for purchase reports.
- Details: Include filters for date and product category to refine report results.

## **3. Non-functional Requirements**

## **3.1 Performance**

- Objective: Ensure the website performs efficiently.
- Details: Optimize code and utilize best practices to enhance speed.

## **3.2 Security**

- Objective: Implement security measures to protect user data.
- Details: Employ secure authentication methods and data encryption.

## **3.3 Usability**

- Objective: Create an intuitive and user-friendly interface.
- Details: Conduct usability testing and gather feedback for improvements.

## **3.4 Reliability**

- Objective: Ensure the system is reliable and available.
- Details: Implement backup and recovery mechanisms.

## **3.5 Scalability**

- Objective: Design the system to handle increased user loads.
- Details: Consider scalability options for future growth.

# **4. Development Workflow**

## **4.1 Planning**

- Objective: Define user stories and development milestones.
- Details: Create a development plan and timeline.

## **4.2 Coding and Testing**

- Objective: Implement features using Java technologies.
- Details: Conduct rigorous testing for functionality and security.

## 4.3 Documentation

- Objective: Create comprehensive documentation for code, APIs, and system architecture.
- Details: Document code and provide deployment instructions.

## 4.4 Presentation

- Objective: Showcase the prototype to stakeholders.
- Details: Emphasize capabilities and user interactions during the presentation.

## 5. Conclusion

The SportyShoes.com project aims to deliver a user-friendly e-commerce platform with essential features for administrators. This simple design document outlines the functionalities and considerations to guide the development process effectively.