**Software Requirements Specification**

1. Introduction

**1.1 Purpose**

The purpose of this document is to define the requirements for the development of a responsive e-commerce website for a sneaker store.

**1.2 Scope**

The website will provide users with a platform to browse and purchase sneakers online. It will include features such as a product slider, product details, a search bar, and a payment checkout process.

1. Overall Description

**2.1 Product Perspective**

The website will be a standalone application that interacts with users through a web browser. It will utilize HTML, CSS, and JavaScript for the frontend, and may require a backend server for processing payments.

**2.2 Product Features**

* Responsive design for optimal viewing on various devices.
* Product slider showcasing different sneaker collections.
* Product details page with descriptions, prices, and purchase options.
* Search functionality to find specific products.
* Payment checkout process with card information input.

1. Specific Requirements

**3.1 User Interface**

* The website shall have a responsive design to ensure usability on desktop, tablet, and mobile devices.
* The navigation bar shall include links to different sneaker collections and a search bar.
* The product slider shall display images, titles, prices, and a "Buy Now" button for each product.
* The product details page shall include a larger image, detailed description, available colors, sizes, and a "Buy Now" button.

**3.2 Functionality**

* The product slider shall automatically transition between slides and allow manual navigation.
* The search bar shall filter products based on user input.
* The payment checkout process shall validate and process card information securely.

**3.3 Performance**

* The website shall load quickly to provide a seamless user experience.
* The product slider transitions shall be smooth and visually appealing.

**3.4 Security**

* The website shall use HTTPS to ensure secure communication between the client and server.
* The payment checkout process shall comply with PCI DSS standards for handling card information securely.

1. External Interface Requirements

**4.1 User Interfaces**

* The website shall be accessible through popular web browsers such as Google Chrome, Mozilla Firefox, and Safari.
* The website shall be compatible with both desktop and mobile devices.

**4.2 Hardware Interfaces**

* The website shall not have specific hardware requirements beyond those needed for standard web browsing.

**4.3 Software Interfaces**

* The website shall utilize HTML, CSS, and JavaScript for the front end.
* The website may require integration with a backend server for processing payments.

1. Other Nonfunctional Requirements

**5.1 Usability**

* The website shall have an intuitive user interface for easy navigation and use.

**5.2 Reliability**

* The website shall be available and functional 24/7, with minimal downtime for maintenance.

**5.3 Performance**

* The website shall load quickly and respond promptly to user interactions.

**5.4 Scalability**

* The website shall be scalable to accommodate a growing number of products and users.

**5.5 Security**

* The website shall implement security best practices to protect user data and transactions.