

## ONLINE SHOPPING SYSTEM

**PROBLEM STATEMENT:-**With the growth of e-commerce, online shopping has become an integral part of modern-day life. However, the current Online Shopping System often faces challenges such as data privacy breaches, identity theft, and fraud, leading to a lack of trust and confidence among consumers. To address these challenges, a modern Online Shopping System is needed that can provide a secure and trustworthy online shopping experience, taking advanced technologies such as blockchain and biometrics to ensure secure transactions and data privacy. The system should also be designed to integrate with existing fraud detection and prevention systems, leveraging data analytics and machine learning techniques to identify and mitigate potential threats. Additionally, the system should prioritize sustainability, providing eco-friendly options for packaging and shipping to reduce the environmental impact of online shopping. Finally, the system should be designed with user experience in mind, providing a personalized and engaging shopping experience that meets the needs and preferences of different consumer segments.

### Software Requirement Specification(SRS)

#### 1 Introduction:

**1.1 Purpose of this Document:-**The purpose of this document is to provide a comprehensive description of the Online Shopping System that is needed to address the challenges faced by the current online shopping systems. It outlines the requirements for the system in terms of security, sustainability, user experience, and integration with existing systems.

**1.2 Scope of this document –** The Online Shopping System is designed to provide a secure and trustworthy online shopping experience for consumers, leveraging advanced technologies such as blockchain and biometrics to ensure secure transactions and data privacy. The system will integrate with existing fraud detection and prevention systems, using data analytics and machine learning techniques to identify and mitigate potential threats. The system will prioritize sustainability by providing eco-friendly options for packaging and shipping. Finally, the system will be designed with user experience in mind, providing a personalized and engaging shopping experience that meets the needs and preferences of different consumer segments.

**1.3 Overview –**The Online Shopping System is an e-commerce platform that provides a seamless and secure online shopping experience for consumers. The system leverages advanced technologies such as blockchain and biometrics to ensure secure transactions and data privacy, and integrates with existing fraud detection and prevention systems to mitigate potential threats. The system also prioritizes sustainability by providing eco-friendly options for packaging and shipping, and is designed with user experience in mind to provide a personalized and engaging shopping experience for different consumer segments..

**The Online Shopping System** - provides an online shopping platform that allows consumers to purchase products and services from various vendors. The system caters to different user characteristics and needs, including a variety of products, payment methods, and delivery options. The system prioritizes security and data privacy, providing a secure platform that ensures the confidentiality of user data. The system also provides eco-friendly options for packaging and shipping to reduce the environmental impact of online shopping

**.3 Functional Requirements:**

1. The system shall provide a secure platform that ensures the confidentiality of user data.
2. The system shall allow consumers to purchase products and services from various vendors.
3. The system shall provide a variety of products, payment methods, and delivery options to cater to different user needs.
4. The system shall leverage advanced technologies such as blockchain and biometrics to ensure secure transactions and data privacy.
5. The system shall integrate with existing fraud detection and prevention systems to identify and mitigate potential threats.

**4 Interface Requirements:**

1. The system shall provide an intuitive and user-friendly interface for consumers to navigate the platform.
2. The system shall integrate with payment gateways and shipping providers to ensure smooth transactions and deliveries.
3. The system shall provide APIs for integration with other systems.

**5 Performance Requirements:**

1. The system shall provide a fast and responsive platform for consumers to make purchases and track their orders.
2. The system shall be able to handle high volumes of traffic and transactions during peak shopping periods.

**6 Design Constraints:**

1. The system shall comply with data privacy regulations such as GDPR and CCPA.
2. The system shall be designed to support multiple languages and currencies to cater to a global audience.

**7 Non-Functional Attributes:**

1. The system shall prioritize security, ensuring the confidentiality of user data and protecting against potential threats.
2. The system shall prioritize sustainability by providing eco-friendly options for packaging and shipping to reduce the environmental impact of online shopping.
3. The system shall prioritize user experience by providing a personalized and engaging shopping experience that meets the needs and preferences of different consumer segments.

**8 Preliminary Schedule and Budget:**

The preliminary schedule for the development of the Online Shopping System is estimated to be 12 months, with a budget of \$1 million. This includes the development of the platform, integration with existing systems, and testing and deployment.