Software Requirements Specification (SRS) for an Online Shopping System:

1. Introduction

1.1 Purpose of this Document:

This section explains why the SRS document is necessary and the document's main objective. The purpose of this document is to define the requirements for the Online Shopping System to ensure that it meets the needs of its users, and to provide a basis for the system's design, development, testing, and maintenance.

1.2 Scope of this Document:

This section outlines the boundaries of the Online Shopping System and defines the areas that the system will cover. The scope of this document includes an explanation of the system's overall working and main objective, the value it will provide to the customer, and the estimated cost and time required for development. It also includes a description of the product's user community, such as customers, administrators, and support staff.

1.3 Overview:

This section provides a brief description of the Online Shopping System. It includes a summary of the system's functionality, its objectives, and the benefits it will provide to users.

2. General Description:

This section provides a general overview of the Online Shopping System, including its main objectives, user characteristics, features, and benefits. It also describes the features of the user community, such as the demographics of the customers and their requirements.

3. Functional Requirements:

This section outlines the functional requirements of the Online Shopping System in detail. It includes a list of all the system's functions, such as user registration, product browsing and search, product selection and add to cart, checkout and payment processing, order management, and user profile management. Each function is explained in detail, including its purpose, input requirements, output requirements, and any associated business rules.

4. Interface Requirements:

This section outlines the software interfaces required by the Online Shopping System to communicate with other software programs or users. It includes the methods of communication, such as shared memory, data streams, and user interfaces. Each interface is described in detail, including its purpose, input requirements, output requirements, and any associated business rules.

5. Performance Requirements:

This section outlines the performance requirements of the Online Shopping System, including its response time, throughput, and reliability. It includes the maximum number of users that the system should be able to handle simultaneously, as well as any other performance criteria that are relevant.

6. Design Constraints:

This section outlines the design constraints that the Online Shopping System must adhere to during its development. It includes any hardware or software limitations, such as the use of a particular algorithm or compatibility with third-party APIs. The design constraints may also include compatibility with existing systems or any other relevant constraints.

7. Non-Functional Attributes:

This section outlines the non-functional attributes required by the Online Shopping System to ensure better performance. These attributes may include security, portability, reliability, reusability, application compatibility, data integrity, and scalability capacity. Each attribute is described in detail, including its purpose, input requirements, output requirements, and any associated business rules.

8. Preliminary Schedule and Budget:

This section outlines the preliminary schedule and budget for the Online Shopping System's development. It includes the overall time duration required and the overall cost required for the development of the project. The section may also include a timeline of milestones and deliverables, as well as any other relevant information related to the project's schedule and budget.