

# Problem Statement

## **Software Requirement Specification(SRS) on online shopping system**

This project aims to develop online shopping for customers with the goal that it is very easy to shop your loved things from an extensive number of online shopping sites available on the web. With the help of this you can carry out online shopping from your home. There is no compelling reason to go to the crowded stores or shopping centers during festival seasons. You simply require a PC or a laptop and one important payment sending option to shop online.

### **1 Introduction:**

- 1.1 **Purpose of this Document:** The purpose of this document is to outline the requirements for an online shopping system that will allow customers to browse and purchase products from a website
- 1.2 **Scope of this document** – The online shopping system will be a web-based application that will allow customers to create accounts, browse products, add them to a shopping cart, checkout, and pay for their purchases.
- 1.3 **Overview** – Online shopping system is a system that allows the user to buy anything online while they are sitting at home or anywhere in the world.

### **2 General description:** The online shopping system will be a standalone web application that will interface with a database to store and retrieve product information, customer information, and order information.

### **3 Functional Requirements:**

The online shopping system will provide the following functions:

- Allow customers to create accounts and login
- Allow customers to browse products by category
- Allow customers to search for products
- Allow customers to add products to a shopping cart
- Allow customers to checkout and pay for their purchases
- Allow customers to view their order history
- Allow administrators to manage products, categories, and orders

### **4 Interface Requirements:**

User Interface : User Interface must be compatible for all type web browsers such as Google chrome , Safari Browser , Internet Explorer etc.

Software Interfaces : Web server - Apache

Database server - MongoDB

Development end -Java , HTML , JavaScript,.CSS.

- 5 **Performance Requirements:**The collection of internal electronic circuits and external physical devices used in building a computer is called the Hardware. The minimum hardware requirement specifications for developing this project are as follows:

Processor : Standard processor with a speed of 1.6 GHz

RAM : 256 MB RAM or more

Hard Disk : 20 GB or more

Monitor : Standard color monitor.

- 6 **Design Constraints:**

The system shall be built using modern web development technologies, such as React, Node.js, and MongoDB.

The system should be developed within the budget allotted.

- 7 **Non-Functional Attributes:**

Performance

The system shall be able to handle a high volume of traffic and transactions without experiencing significant delays or downtime.

Security

The system shall implement appropriate security measures to protect customer data and prevent unauthorized access.

Usability

The system shall be easy to use and navigate, with clear and intuitive interfaces for both customers and administrators.

## 8 **Preliminary Schedule and Budget:**

### **Preliminary Schedule:**

Requirements gathering and analysis: 1 week

System design and architecture: 1-2 weeks

Development and testing: 5-8 weeks

Integration and deployment: 1-2 weeks

Training and user acceptance testing: 1-2 weeks

**Total: 9-15 weeks (approximately 2-4 months)**

### **Preliminary Budget:**

Requirements gathering and analysis: \$2,000 - \$5,000

System design and architecture: \$5,000 - \$10,000

Development and testing: \$25,000 - \$50,000

Integration and deployment: \$5,000 - \$10,000

Training and user acceptance testing: \$2,500 - \$5,000

**Total: \$39,500 - \$80,000 (approximately)**