

Shopping Cart Application - Business Requirements Document (BRD)

Version 1.0

1 Document Revisions

2 Approvals

Role Name Title Signature Date

Project Sponsor

Business Owner

Project Manager

System Architect

Development Lead

User Experience Lead

Quality Lead

Content Lead

Date

Version Number

Document Changes

[Include any revisions and changes made to the document here]

3 Introduction

3.1 Project Summary

3.1.1 Objectives

The primary objectives of the Shopping Cart Application project are to create a highly user-friendly online shopping platform, enhance customer engagement, boost sales and revenue, and ensure a secure and efficient checkout process. By achieving these objectives, we aim to meet the evolving needs and expectations of our customers and remain competitive in the e-commerce industry.

3.1.2 Background

In today's rapidly evolving e-commerce landscape, our current online shopping platform lacks the advanced features and functionalities required to provide a modern and seamless shopping experience. The Shopping Cart Application project addresses these limitations by introducing new features and improving existing ones. It aims to align our platform with the expectations of modern online shoppers and equip us with the tools needed to compete effectively in the market.

3.1.2.1 Business Drivers

Several key factors drive the need for the Shopping Cart Application:

- **Increasing Customer Demand:** Consumers increasingly prefer the convenience of online shopping, and we must meet their expectations.
- **Growing Competition:** The e-commerce industry is highly competitive, and our platform must stand out to retain and attract customers.
- **Real-Time Inventory Tracking:** Providing real-time product availability information is crucial to prevent customer frustration and lost sales.
- **Personalized Shopping:** Customers expect tailored shopping experiences that cater to their preferences and needs.

3.2 Project Scope

3.2.1 In Scope Functionality

The Shopping Cart Application project includes the following core functionalities:

- **User Registration and Authentication:** Users can create accounts and securely log in.
- **Advanced Product Search:** Enhanced product search with various filtering options.
- **Real-Time Inventory Tracking:** Real-time updates on product availability.
- **Guest Checkout Option:** Streamlined checkout for users without accounts.
- **Customer Review and Rating System:** A system allowing customers to leave reviews and ratings.
- **Support for Coupon Codes and Discounts:** The ability to apply discounts during checkout.

3.2.2 Out of Scope Functionality

The project explicitly excludes the following functionalities:

- **Integration with Third-Party Loyalty Programs:** Integrating external loyalty programs is beyond the project's scope.
- **Social Media Sharing Features:** Features related to sharing on social media are not part of this project.
- **Integration with External Inventory Systems:** Integrating external inventory management systems is not included.
- **Support for Cryptocurrency Payments:** Cryptocurrency payment options are not in scope.
- **Offline Shopping Capabilities:** Enabling offline shopping is not part of this project.

3.3 System Perspective

3.3.1 Assumptions

During the development of the Shopping Cart Application, we assume the following:

- **Reliable Hosting:** A secure and reliable hosting infrastructure will be available.
- **Stable Internet Connections:** Users will have stable internet connections for uninterrupted shopping.
- **Payment Gateway Integration:** Integration with third-party payment gateways will be successfully implemented.
- **Data Privacy Compliance:** The application will comply with data privacy and security regulations.

3.3.2 Constraints

The project operates within certain constraints:

- **Budget Limitations:** Development and maintenance activities are subject to budget limitations.
- **Timeline:** The project adheres to a predefined timeline for completion.
- **Regulatory Compliance:** Compliance with data privacy and security standards is mandatory.

3.3.3 Risks

Potential risks include:

- **Technical Challenges:** Technical complexities during development may impact project timelines.
- **Competitive Landscape:** Changes in the competitive landscape may affect the project's market penetration.
- **Security Vulnerabilities:** Vulnerabilities in the application's security must be addressed effectively.

4 Business Process Overview

4.1 Current Business Process (As-Is)

[Provide a brief description of the current state of online shopping processes.]

4.2 Proposed Business Process (To-Be)

[Describe how the Shopping Cart Application will improve and streamline the shopping process.]

5 Business Requirements

The business requirements for the Shopping Cart Application are prioritized as follows:

Value Rating Description

1 Critical These requirements are critical to the success of the project. The project will not be possible without these requirements.

2 High These requirements are high priority and significantly enhance the application's value.

3 Medium These requirements are somewhat important and provide substantial value but can be deferred if necessary.

4 Low These are low-priority requirements or "nice to have" features if time and cost allow.

5 Future These requirements are out of scope for this project but may be considered for future releases.

5.1 Functional Requirements

Req#	Priority	Description	Rationale	Use Case	Reference	Impacted Stakeholders
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[Specify detailed functional requirements following the format above.]

Security Requirements

[Specify any security-related requirements.]

Reporting Requirements

[Specify any reporting and analytics requirements.]

5.2 Non-Functional Requirements

ID Requirement

NFR-001 Application performance should meet industry standards.

NFR-002 The system should support multiple languages.

NFR-003 The application must be accessible to users with disabilities.

NFR-004 The application should be responsive and work seamlessly on various devices and browsers.

FR-R-001 The system should generate daily sales reports for business analysis.

Usability Requirements

[Specify any usability requirements.]

6 Appendix

6.1 Sample XML expected output

[Include a sample XML document illustrating the expected output format for specific functionalities or data exchanges if applicable.]