

7. Online Shopping System

Problem Statement: The system's goal is to provide a secure, efficient, reliable platform for customers to browse and purchase products online. It should be able to handle the entire shopping process.

It should be designed to handle large volume of transactions. Tasks from product discovery to payment to delivery should be entirely taken care of.

This is to design and implement a secure, efficient and user friendly platform for customers to purchase product online.

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1. Introduction

1.1 Purpose: To clarify and define functional and non-functional requirements by ensuring effective processing of shopping. This document serves as roadmap for development that can improve the operations which'll then enhance the guest experience.

1.2 Scope - To run and ensure that shopping of customers run as smooth as possible. The due time will depend on the complexity.

1.3 Overview - Application is developed to optimise the shopping online experience leading to fun & efficiency.

2. General Description - an online shopping system is a digital platform that allows users to browse and purchase products or services from an online store. It is a virtual marketplace that enables customers to shop from anywhere anytime. It typically includes a catalog of products, its description & image, pricing, cart and payment gateway. May also have customer reviews, recommendations & personalised shopping experience.

3. Functional Requirements

- User Registration: should allow to create an account which includes info such as name, address, email, etc
- Product Catalog: includes catalog of product with images, description and price.
- Search and filtering: allow searching on basis of user criteria
- Shopping Cart: should allow to add product in cart & edit & remove.
- Payment gateway: system should integrate with gateways to allow payment from various platforms.

4. Performance Requirements

- Speed: should respond quickly to user requests with fast page load time
- Scalability: should be able to handle high volume of user & transactions
- Should be highly reliable with min downtime
- Should have strong security measures
- System should be available 24x7
- compatible & responsive.

5. Interface Requirements

- System should have a user friendly interface that's easy to navigate
- System should have a responsive design that adapts to different screen sizes
- It should provide different language preferences
- Branding: should be designed to reflect branding of online stores
- Personalization: should provide personalized recommendation
- Checkout process, feedback surveys, accessibility,

6. Design Constraints

Hardware limitations: System has to be integrated with already built offline stores without affecting their offline sales.

- Software constraints: constraints on amount of data that'll be generated, processed and stored

7. Non-functional Requirements

- System should be easy to use with clear navigation, intuitive interface & userfriendly features.
- Should comply with relevant privacy laws & regulations protecting user data
- Should be compatible with wide range of devices.
- Internationalization: should support multiple language and currencies
- Should be fast, responsive, reliable, with min downtime.