

SHOPPING CART

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Document Version Control

Date Issued	Version	Description	Author
06-04-2023	1.0	Added Homepage design	Abhishek
10-04-2023	1.2	Added Sort By functionality	Abhishek

Low Level Design (LLD)

16-04-2024	1.4	Modified the items using API	Abhishek
18-04-2023	1.6	Completed the cart page	Abhishek

Low Level Design (LLD)

Abstract

The business-to-consumer aspect of an online shopping is the most visible business use of the World Wide Web. The primary goal of an online shopping site is to sell goods and services online. This project deals with developing an e-commerce website for online shopping. It provides the user with a catalogue of different goods and services available for purchase in the store. In order to facilitate online purchase a shopping cart is provided to the user.

1 Introduction

1.1 Why this Low-Level Design Document?

The purpose of this document is to present a detailed description of the Shopping Cart System. It will explain the purpose and features of the system, the interfaces of the system, what the system will do, the constraints under which it must operate.

The main objective of the project is to let the user have a smooth experience while shopping with attractive features as well as discounted Prices. In e-commerce, the **shopping cart** is a piece of software where your customers can store the products they like and might purchase after browsing merch in your catalogue. But other than serving as a storage of items for purchase, an e-commerce shopping cart offers several important functions. Once a customer adds an item to their shopping cart, they can easily review and manage their selections. They can change order sizes, colours, or quantities. Customers can continue browsing your website and then add products or remove them from the cart. When they're done browsing, they can go back to their shopping cart and select the items they want to check out. A shopping cart also shows the different shipping and payment options. After the customer makes a payment, the cart organizes all the order information and sends it to you as the retailer, and to other parties, such as your bank and delivery partners for order fulfilment.

1.2 Scope

This cart system will be a Web application. This system will be designed to let the user to search the items and add them to cart and do checkout with modifying option in cart as well as total amount.

1.5 Out of Stock

These are the items which are sold out. Once these items are back in stock it'll get updated soon.

2.1 Database

This web app doesn't need any database. As it is only shopping cart. If it was integrated with ecommerce app then it could require the database for tracking of all items added to cart of each user.

2.2 Deployment

NETLIFY



3 Technology stack

Front End	HTML/CSS/JS/React
Backend	Not Required
Database	Not Required
Deployment	Netlify

4 Proposed Solution

It makes user experience better and easy to do shopping and checking out with these items at one place. Because it accompanies your customers throughout the shopping journey, investing in a reliable shopping cart solution is vital in enhancing your customer's buying experience. In effect, this can strengthen your brand's reputation and boost revenues and customer loyalty.

- **It streamlines the shopping experience.**

A good shopping cart platform provides your customers easy access to product information and allows them to make quick changes to their orders. If the customer is not yet done shopping and continues browsing your catalogue, all the items in the cart remain intact until the customer comes back and selects the items to purchase. Multiple payment options are also accessible, so customers can choose which one is convenient for them.

- **It lets you keep track of customer orders better.**

Order management from the point where the customer makes a payment to having the items shipped to the customer involves several processes. With a shopping cart software, it is easy for you to process

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and fulfil orders faster, saving time and money. It also keeps information and transactions more organized to prevent errors in order processing and fulfilment.

- **It stores and provides data for analytics.**

You can extract a wide range of information from your shopping cart software. Information such as previous purchases or items left on the cart can help you in designing your retargeting plan. Many shopping cart platforms have a feedback feature that lets you know how customers rate their shopping experience. You can use such data in improving your customer management strategy...