SHOPPING CART
(HLD)

Document Version Control

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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 cart 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. This is a project with the objective to develop a basic website where a consumer is provided with a shopping cart application and also to know about the technologies used to develop such an application.

1 Introduction

1.1 Why this High-Level Design Document?

The purpose of this High-Level Design (HLD) Document is to add the necessary detail to the current project description to represent a suitable model for coding. This document is also intended to help detect contradictions prior to coding, and can be used as a reference manual for how the modules interact at a high level.

The HLD will:

- Present all of the design aspects and define them in detail
- Describe the user interface being implemented
- Describe the hardware and software interfaces
- Describe the performance requirements
- Include design features and the architecture of the project.

1.2 Scope

The HLD documentation presents the structure of the system, such as the database architecture, application architecture (layers), application flow (Navigation), and technology

architecture. The HLD uses non-technical to mildly-technical terms which should be understandable to the administrators of the system.
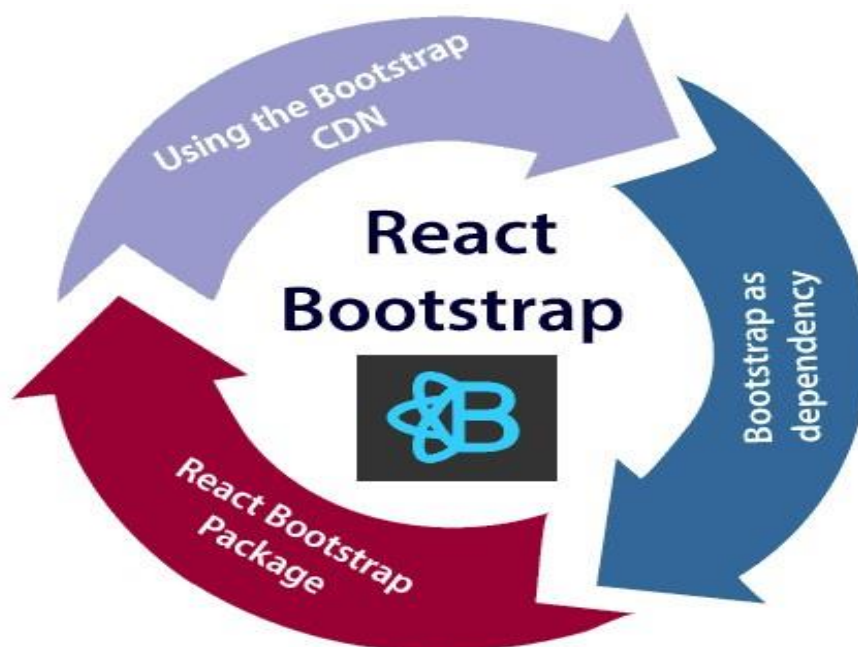
2 General Description

2.1 Product Perspective

A simple frontend where there are a couple of products and upon clicking on add to cart button the item should be added to the cart and the user can see the items added to the cart on the cart page.

2.2 Problem statement

Create a simple frontend where there are a couple of products and upon clicking on add to cart button the item should be added to the cart and the user can see the items added to the cart on the cart page.

2.3 PROPOSED SOLUTION

Shopping Cart System customer need not go to the shop for buying the products. He can order the product he wish to buy through the application in his Smartphone. The shop owner will be admin of the system. Shop owner can appoint moderators who will help owner in managing the customers and product orders. The system also recommends a home delivery system for the purchased products.

2.4 Tools used

React library is used to build this project with some other front-end development framework for the creation of UI. React-router-Dom react-icons, faker for fake shopping-cart, react-bootstrap are also used.
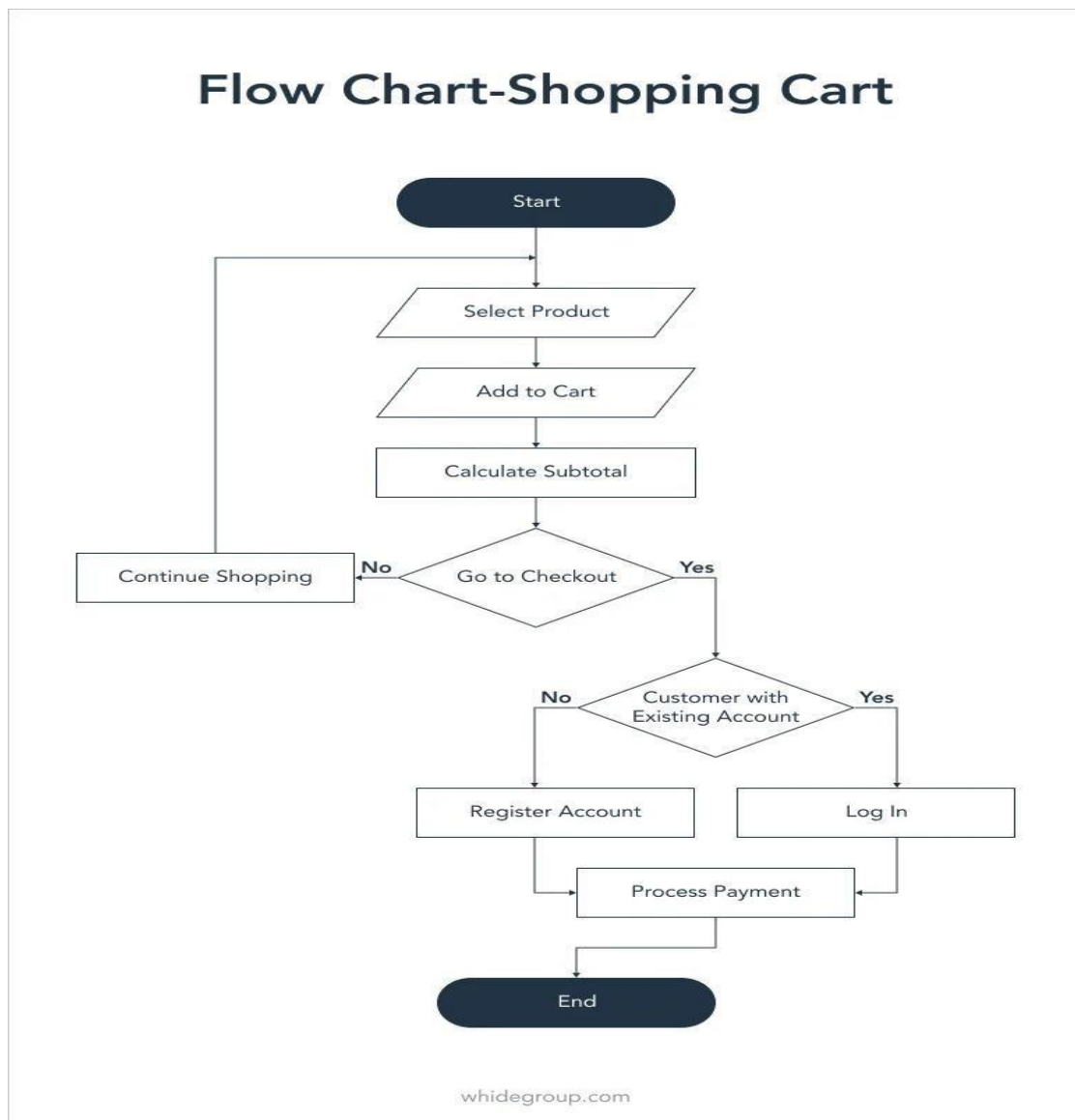
2.5 Hardware Requirements

There are no requirements of hardware. As it is an online platform so there are no requirements of hardware.

2.6 Constraints

The shopping cart must be user friendly, as easy as possible and users should not be required to know any of the backend workings.

3 Design Details

3.1 Process Flow

Flow Chart-Shopping Cart

3.2 Error Handling

It Should errors be encountered; an explanation will be displayed as to what went wrong? An error will be defined

4.1 Reusability

The code written and the components used should have the ability to be reused with no problems.

4.2 Resource Utilization

When any task is performed, it will likely use all the processing power available until that function is finished.

4.3 Deployment

5. Conclusion: -

- Shopping Cart is a foundation for any online store.
- Shopping Cart have some key element.
- Get some limited tracking details about customer.
- Available number of shopping cart solution with different flat forms.
- Users needed to decide most suitable solution for their business.