**Shopping Cart Application Documentation**

**Overview**

This Site is Developed for submitting as a assignment. This is a React app with Javascript. Vite-React plugin used to make it dynamic.

This document outlines the structure and components of the React Shopping Cart Application, which lists the "Noise EarPods" product with its details such as ratings, product image, title, description, and an "Add to Cart" button.

**Project Structure**

/project-root

├── /src

│ ├── /components

│ │ ├── Header.jsx

│ │ ├── Product.jsx

│ │ ├── Footer.jsx

│ │ ├── Topbar.jsx

│ ├── App.jsx

│ ├── index.jsx

│ ├── index.css

| ├── main.jsx

├── package.json

└── README.md

**Topbar Component (Topbar.jsx)**

**Description:**

The Topbar component provides a top navigation bar with links and cart..

**Props**: Props: cart count

**Code:**

*import React from 'react'*

*// Navgigation Component*

*function Topbar({ cart }) {*

*return (*

*<>*

*<nav class="navbar navbar-expand-lg navbar-light bg-light">*

*<div class="container px-4 px-lg-5">*

*<a class="navbar-brand" href="#!">Noise Mockup</a>*

*<button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-target="#navbarSupportedContent" aria-controls="navbarSupportedContent" aria-expanded="false" aria-label="Toggle navigation"><span class="navbar-toggler-icon"></span></button>*

*<div class="collapse navbar-collapse" id="navbarSupportedContent">*

*<ul class="navbar-nav me-auto mb-2 mb-lg-0 ms-lg-4">*

*<li class="nav-item"><a class="nav-link active" aria-current="page" href="#!">Home</a></li>*

*<li class="nav-item"><a class="nav-link" href="#!">About</a></li>*

*<li class="nav-item dropdown">*

*<a class="nav-link dropdown-toggle" id="navbarDropdown" href="#" role="button" data-bs-toggle="dropdown" aria-expanded="false">Shop</a>*

*<ul class="dropdown-menu" aria-labelledby="navbarDropdown">*

*<li><a class="dropdown-item" href="#!">All Products</a></li>*

*<li><hr class="dropdown-divider" /></li>*

*<li><a class="dropdown-item" href="#!">Popular Items</a></li>*

*<li><a class="dropdown-item" href="#!">New Arrivals</a></li>*

*</ul>*

*</li>*

*</ul>*

*<form class="d-flex">*

*<button class="btn btn-outline-dark">*

*<i class="bi-cart-fill me-1"></i>*

*Cart*

*{/\* Gets the count of the cart with total added prodcts from \*/}*

*<span class="badge bg-dark text-white ms-1 rounded-pill">{cart}</span>*

*</button>*

*</form>*

*</div>*

*</div>*

*</nav>*

*</>*

*)*

*}*

*export default Topbar*

**Header Component (Header.jsx)**

**Description:**

The Header component provides a header style with Product name and motive.

Props: None

**Product Component (Product.jsx)**

**Description**:

The Product component presents the product details including image, title, description, rating, and the "Add to Cart" button.

**Props**:

Title: The title of the product.

Image: The URL of the product image.

Price: The Price of the product.

**Code:**

*import React from 'react'*

*// Header Component*

*function Header() {*

*return (*

*<>*

*<header class="bg-dark py-5">*

*<div class="container px-4 px-lg-5 my-5">*

*<div class="text-center text-white">*

*<h1 class="display-4 fw-bolder">Shop in style</h1>*

*<p class="lead fw-normal text-white-50 mb-0">With Amazing Sound EarPods</p>*

*</div>*

*</div>*

*</header>*

*</>*

*)*

*}*

*export default Header*

**Footer Component (Footer.jsx)**

**Description**:

The Footer component displays the footer section, typically containing copyright information.

**Props**: None

**Code:**

*import React from 'react'*

*// Footer Component*

*function Footer() {*

*return (*

*<>*

*<footer class="py-5 bg-dark">*

*<div class="container"><p class="m-0 text-center text-white">Copyright &copy; Noise Mockup 2024 </p></div>*

*</footer>*

*</>*

*)*

*}*

*export default Footer*

**App Component(App.jsx)**

**Description:**

The App component is the container for the application, combining the Header, Topbar, Product, and Footer components. It manages the state for the shopping cart.

**State**:

**cart**: Maintains the list of products added to the cart.

**Props**: None

**Code:**

*// import React from 'react'*

*import React, { useState } from 'react'*

*import Topbar from './components/Topbar'*

*import Header from './components/Header'*

*import Product from './components/Product'*

*import Footer from './components/Footer'*

*//Main Component used to combine all the components of the page*

*function App() {*

*let [cart, setCart] = useState(0) //This variable is used save the cart count dynamically*

*let data = [ //data variable is used to store the values for the products cards components*

*{*

*img: "https://m.media-amazon.com/images/I/51+e7yrgPpL.\_AC\_UL480\_FMwebp\_QL65\_.jpg",*

*title: "Noise Buds VS104 Truly Wireless Earbuds with 45H of Playtime, Quad Mic with ENC, Instacharge",*

*price: "999"*

*},*

*{*

*img: "https://m.media-amazon.com/images/I/614hH1Cot3L.\_AC\_UL480\_QL65\_.jpg",*

*title: "Noise Buds VS104 Truly Wireless Earbuds with 45H of Playtime, Quad Mic with ENC, Instacharge",*

*price: "999"*

*},*

*{*

*img: "https:/m.media-amazon.com/images/I/517lSvEVVsL.\_AC\_UL480\_QL65\_.jpg",*

*title: "Noise Two Wireless On-Ear Headphones with 50 Hours Playtime, Low Latency(up to 40ms), 4 Play Modes",*

*price: "1699"*

*},*

*{*

*img: "https://m.media-amazon.com/images/I/61avh1xd+vL.\_AC\_UL480\_QL65\_.jpg",*

*title: "Noise Buds VS104 Max Truly Wireless in-Ear Earbuds with ANC(Up to 25dB),Up to 45H Playtime, Quad Mic",*

*price: "1799"*

*},*

*{*

*img: "https://m.media-amazon.com/images/I/51O-ZSlD6eL.\_AC\_UL480\_QL65\_.jpg",*

*title: "Noise Buds VS104 Truly Wireless Earbuds with 45H of Playtime, Quad Mic with ENC, Instacharge",*

*price: "999"*

*},*

*{*

*img: "https://m.media-amazon.com/images/I/512sO2L0k6L.\_AC\_UL480\_QL65\_.jpg",*

*title: "Noise Two Wireless On-Ear Headphones with 50 Hours Playtime, Low Latency(up to 40ms), 4 Play Modes",*

*price: "1697"*

*},*

*{*

*img: "https://m.media-amazon.com/images/I/610b8Za+PtL.\_AC\_UL480\_QL65\_.jpg",*

*title: "Noise Buds VS402 in-Ear Truly Wireless Earbuds with 50H of Playtime, Low Latency, Quad Mic with ENC,",*

*price: "1499"*

*},*

*{*

*img: "https://m.media-amazon.com/images/I/61bodEi+1JL.\_AC\_UL480\_QL65\_.jpg",*

*title: "Noise Buds X Prime in-Ear Truly Wireless Earbuds with 120H of Playtime, Quad Mic with ENC",*

*price: "1799"*

*},*

*]*

*return (*

*<>*

*<Topbar cart={cart} />*

*<Header />*

*<section class="py-5">*

*<div class="container px-4 px-lg-5 mt-5">*

*<div class="row gx-4 gx-lg-5 row-cols-2 row-cols-md-3 row-cols-xl-4 justify-content-center">*

*{*

*data.map((e, i) => {*

*return <Product cart={cart} setCart={setCart} data={e} key={i} />*

*})*

*}*

*</div>*

*</div>*

*</section>*

*<Footer />*

*</>*

*)*

*}*

*export default App*

**Main Application (Main.jsx)**

**Description:**

The Main Application is the main application which combines all the css and js and the components of the whole appications.

**Code:**

*import React from 'react'*

*import ReactDOM from 'react-dom/client'*

*import App from './App.jsx'*

*import './index.css'*

*ReactDOM.createRoot(document.getElementById('root')).render(*

*<React.StrictMode>*

*<App />*

*</React.StrictMode>,*

*)*

**Installation and Usage**

1. Clone the Repository

*`git clone https://github.com/Vijayadhi/Shopping-Homepage.git`*

*`cd shopping-cart`*

2. Install Dependencies

*`npm install`*

3. Start the application

*`npm start`*

4. Open your browser and navigate to your localhost

Ex: `http://localhost:3000`

**Conclusion**

This document provides a summary of the components and structure of the React Shopping Cart Application. The application is designed to be modular, making it easy to modify and extend. For further development, consider adding more products, enhancing the cart functionality, and integrating a backend service.