

Subject Name: **Front End Engineering**

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Project Name: E COMMERS WEBSITE

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React Ecommers Website

Introduction

The world of commerce is evolving rapidly, with a substantial shift towards online platforms. The internet has become the go-to destination for shoppers seeking convenience, variety, and competitive prices. To address this growing demand, I present my website which is , an innovative and user-friendly e-commerce platform

Technologies Used:

- HTML
- CSS
- JavaScript
- React
- Redux
- Talwind CSS

Components

1. Main Component

- A visually striking hero section with a high-resolution image showcasing new season arrivals.
- A bold and stylish title, "New Season Arrivals," creating an exciting first impression.
- A brief yet informative description welcoming visitors to explore a wide range of products, including fashion and electronics.
- A responsive design ensuring a consistent and engaging user experience on various devices.

2. NavBar Component

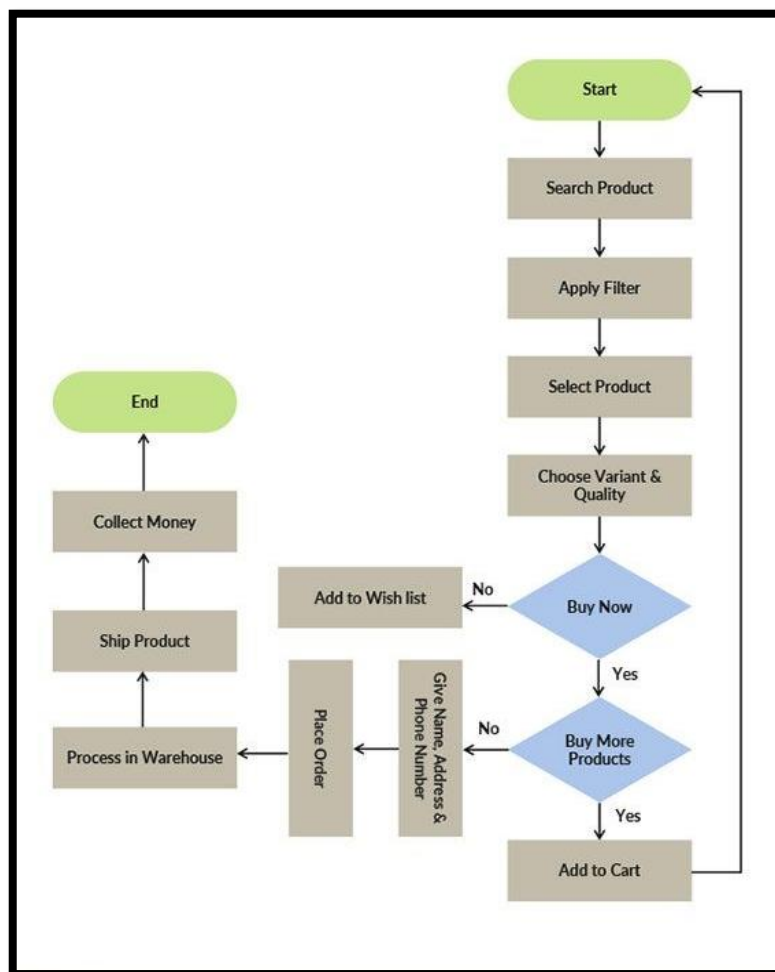
- A navigation bar at the top of the website, which is sticky and remains visible as users scroll down the page.
- The brand name "React Ecommerce" on the top left, serving as a link to the home page.
- Navigation links on the top right, which include "Home," "Products," "About," and "Contact," enabling users to navigate to different sections of the website.

- Additional buttons on the top right for actions such as "Login," "Register," and "Cart."
- The "Cart" button dynamically displays the number of items in the shopping cart using data from the Redux store, making it user-friendly and informative.
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3. Product Component

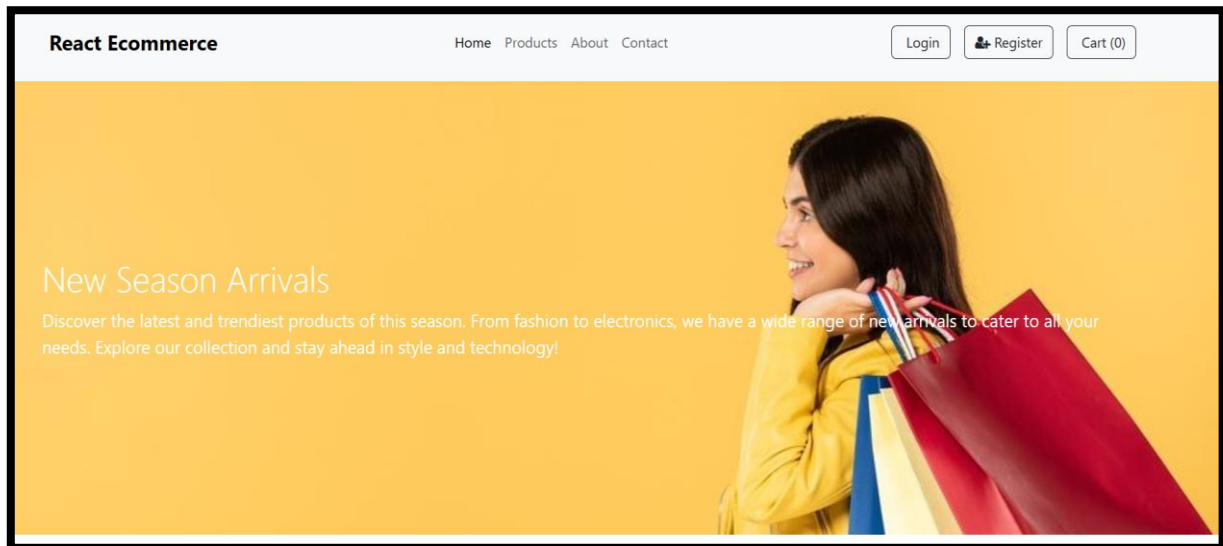
- The Products page consists of a navigation bar for easy access to different sections of the website, including "Home," "Products," "About," and "Contact," as well as a "Cart" button that displays the current number of items in the shopping cart.
- Users can filter products by category using buttons labeled "All," "Men's Clothing," "Women's Clothing," "Jewelry," and "Electronics."
- Product cards are displayed in a grid layout, each featuring an image, truncated title, brief description, and price. Users have the option to view more details or add products to their shopping cart..

Flow Chart:



-----Components Documentation-----

Home.jsx



The Home Page serves as the first point of contact for visitors to your e-commerce website, designed to captivate and engage them. The focal point of this page is the Hero section, which features a visually compelling background image covering the entire viewport. Overlaying this image is a title, "New Season Arrivals," presented in a large, lightweight font to grab the viewer's attention. A descriptive paragraph below the title offers a tantalizing glimpse of your latest products. Notably, this text is hidden on smaller screens to maintain readability and responsiveness. The striking contrast between the dark background and white text, along with the carefully selected image, enhances the page's visual appeal. Overall, the Home Page effectively entices users to explore your e-commerce offerings, creating a captivating and engaging user experience. Please note that the specific styling and content may differ based on your website's unique design and branding.

AboutPage.jsx

Imports: The component imports the following modules:

React: The core React library.

NavLink from 'react-router-dom': This is used to create navigation links and manage the active link state.

useSelector from 'react-redux': This is used for accessing the Redux store to get the cart state.

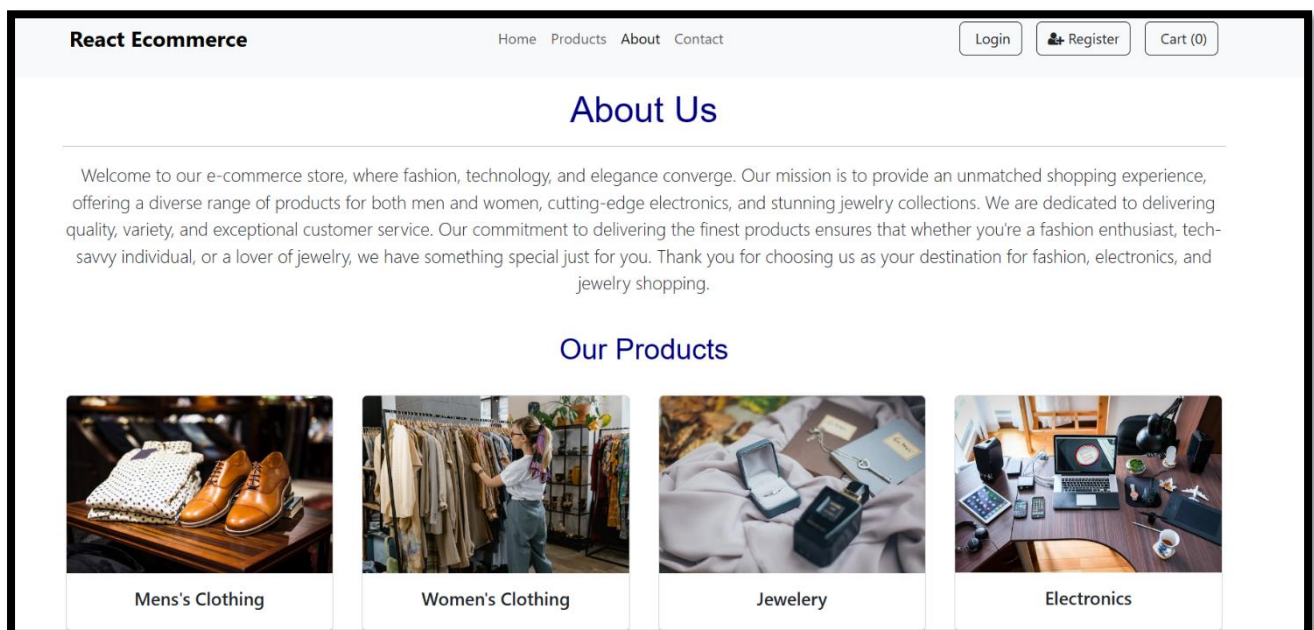
Component Definition: The "Navbar" component is defined as a functional component.

State: The component uses `useSelector` to access the Redux store state and extracts the "handleCart" slice from it, which likely contains information about items in the shopping cart.

JSX Structure:

The outermost element is a `<nav>` element with various Bootstrap classes, defining the structure and appearance of the navigation bar.

Inside the navigation bar, there's a `<div>` with a container class to maintain content alignment.



Products.jsx

Import statements:

It imports necessary dependencies, such as `React`, `useState`, `useEffect`, `Link`, `useParams`, and `useDispatch` for handling data, routing, and state management.

State Variables:

It defines several state variables using the `useState` hook:

`product`: to store information about the currently viewed product.

`similarProducts`: to store a list of products that are similar to the current product.

loading and loading2: to track whether data is being loaded, which is used to display loading skeletons.

Redux Dispatch:

It sets up a dispatch function from Redux to enable adding products to the shopping cart.

useEffect Hook:

It uses the useEffect hook to fetch data about the product and similar products when the component mounts.

The product data is fetched by making a request to a specific product endpoint using the id parameter obtained from React Router's useParams hook.

The similar products are fetched by making a request to a category-specific endpoint based on the product's category.

While the data is being fetched, the loading and loading2 states are set to true.

Loading Components:

Two loading components, Loading and Loading2, are defined to display loading skeletons. They mimic the structure of the product and similar product cards.

Display Product Details:

Once the data is fetched, the code displays the product details:

Category, title, rating, price, description, and an "Add to Cart" button.

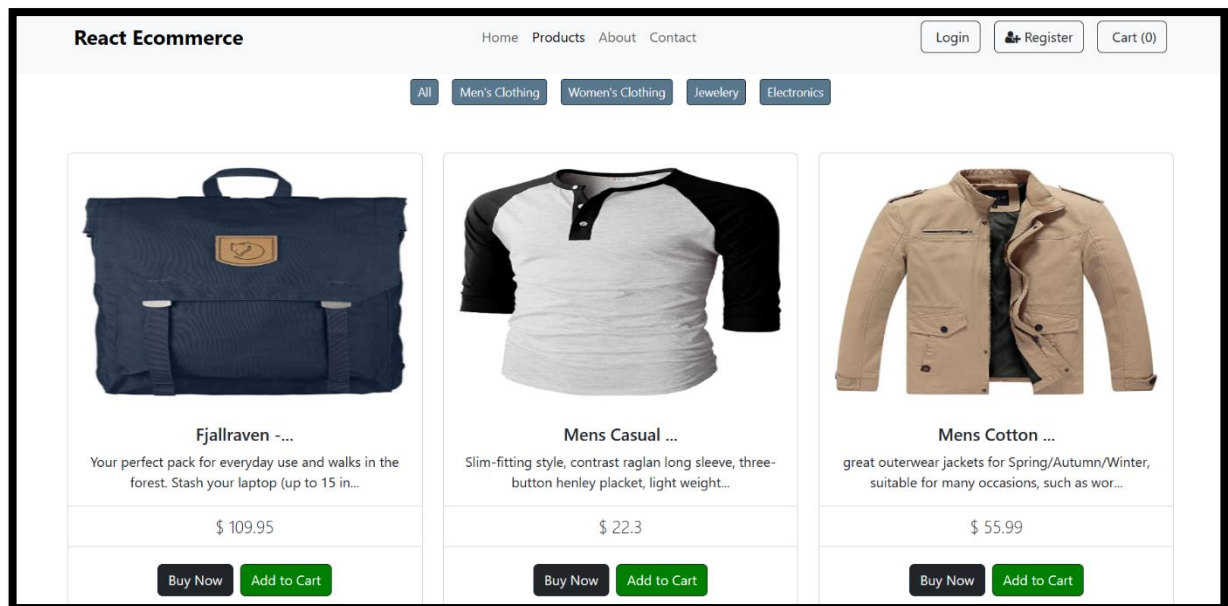
Users can click the "Add to Cart" button to add the product to their shopping cart.

A link is provided to navigate to the cart.

Display Similar Products:

The component also displays a list of similar products in a horizontal scrolling marquee.

The "react-fast-marquee" library is used to create the scrolling effect.



ContactPage.jsx

It includes a navigation bar ("Navbar") at the top of the page, offering users a way to navigate to other parts of the website.

The page contains a centered container with a heading "Contact Us," which is styled with a navy color.

Below the heading, there's a horizontal line ("hr") for visual separation.

A form is displayed, providing fields for users to enter their name, email, and a message.

The form fields include "Name," "Email," and "Message."

The "Name" and "Email" fields are input fields where users can type their name and email address.

The "Message" field is a textarea element where users can type their message.

There is a "Send" button, which, in the current code, is disabled. It's styled with a navy background and white text.

The screenshot shows a web application titled "React Ecommerce". At the top, there is a navigation bar with links for "Home", "Products", "About", and "Contact". On the right side of the navigation bar, there are three buttons: "Login", "Register" (with a user icon), and "Cart (0)". The main content area is titled "Contact Us" in a large, blue font. Below the title, there is a horizontal line. Underneath the line, there are three input fields: "Name" with the placeholder text "Enter your name", "Email" with the placeholder text "name@example.com", and "Message" with the placeholder text "Enter your message". Below these fields is a blue "Send" button.

Login.jsx

It includes a navigation bar ("Navbar") at the top of the page to allow users to navigate to other parts of the website.

The page contains a centered container with a heading "Login," which is styled with a navy color and a specific font.

Below the heading, there's a horizontal line ("hr") for visual separation.

A login form is displayed, providing fields for users to enter their email and password.

The form fields include "Email address" and "Password."

The "Email address" field is an input field where users can enter their email address.

The "Password" field is also an input field for entering the password, and it's of type "password" to hide the entered characters.

A message is displayed below the form, indicating "New Here?" and providing a link with the text "Register." Clicking the link redirects users to the registration page.

There is a "Login" button at the bottom of the form. In the current code, the button is disabled and styled with a navy background and white text. It's intended for further development to implement the functionality for user login.

React Ecommerce

Home Products About Contact

Login Register Cart (0)

Login

Email address

name@example.com

Password

Password

New Here? [Register](#)

Login

Register.jsx

It includes a navigation bar ("Navbar") at the top of the page to allow users to navigate to other parts of the website.

The page contains a centered container with a heading "Register," which is styled with a navy color and a specific font.

Below the heading, there's a horizontal line ("hr") for visual separation.

A registration form is displayed, providing fields for users to enter their full name, email, and password.

The form fields include "Full Name," "Email address," and "Password."

The "Full Name" field is an input field where users can enter their full name.

The "Email address" field is an input field for entering the email address.

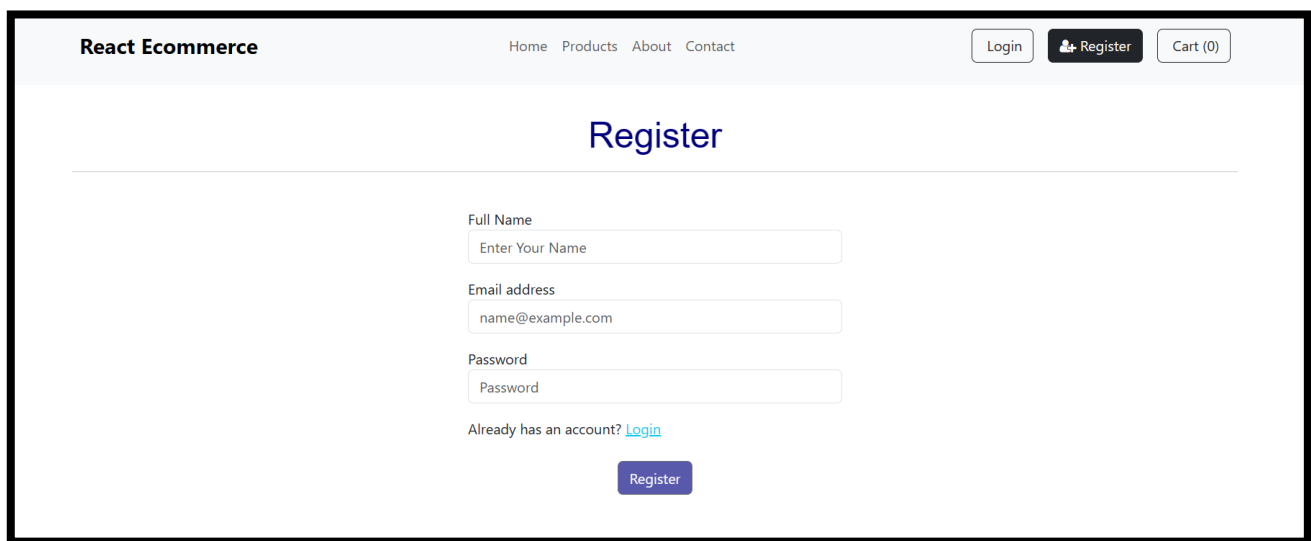
The "Password" field is an input field for entering the password. It's of type "password" to hide the entered characters.

A message is displayed below the form, indicating "Already has an account?" and providing a link with the text "Login." Clicking the link redirects users to the login page.

There is a "Register" button at the bottom of the form. In the current code, the button is disabled and styled with a navy background and white text. It's intended for further development to implement the functionality for user registration.

The entire form and button are centered on the page using CSS.

The page doesn't currently have a footer, as indicated by the commented-out "<Footer />" line.



The screenshot shows a web application interface for a registration page. At the top, there is a header with the text "React Ecommerce" on the left, navigation links "Home Products About Contact" in the center, and three buttons "Login", "Register" (with a user icon), and "Cart (0)" on the right. Below the header, the main content area has a heading "Register" in a large, blue font. Underneath the heading is a registration form with three input fields: "Full Name" with the placeholder "Enter Your Name", "Email address" with the placeholder "name@example.com", and "Password" with the placeholder "Password". Below these fields is a link "Already has an account? [Login](#)". At the bottom of the form is a "Register" button with a navy background and white text.

Cart.jsx

The component imports necessary dependencies, including "Footer," "Navbar," and other functions/hooks from React and Redux.

It uses Redux's `useSelector` and `useDispatch` to manage the state and dispatch actions related to the shopping cart.

The page starts with a navigation bar ("Navbar") at the top to facilitate navigation to other parts of the website.

The main content of the page is divided into two main sections, "EmptyCart" and "ShowCart." Which one is displayed depends on whether there are items in the shopping cart.

"EmptyCart" section: If the cart is empty, this section is displayed, indicating that the user's cart is empty. It includes a heading, a message, and a button that allows the user to continue shopping by returning to the home page.

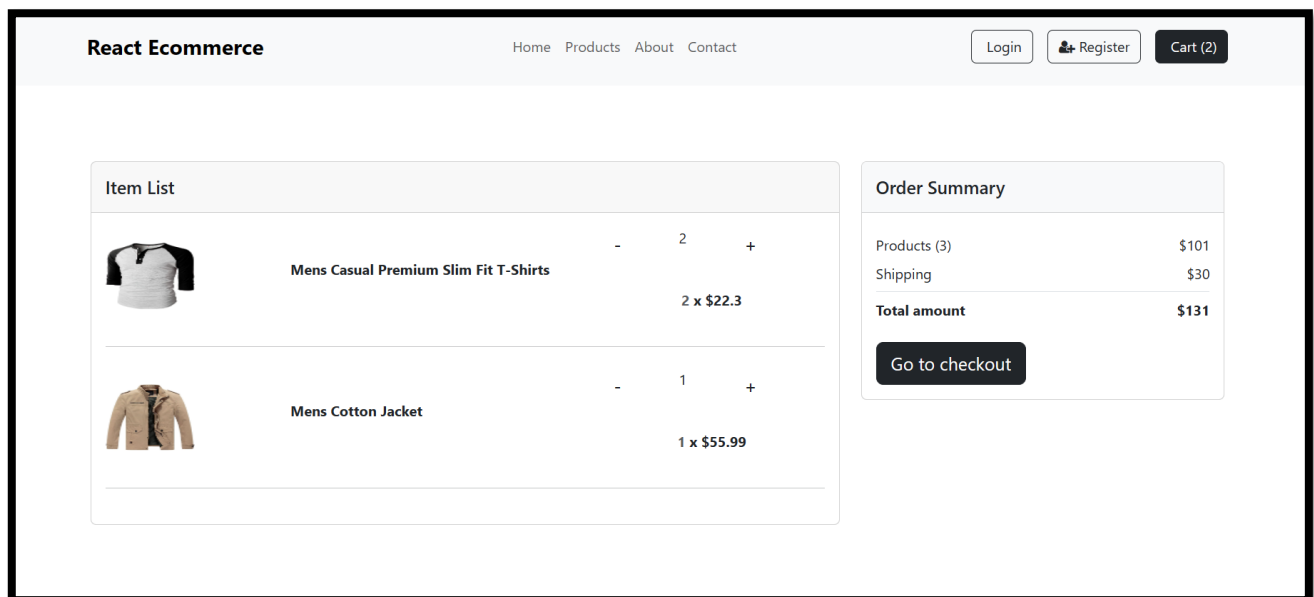
"ShowCart" section: If the cart has items, this section is displayed. It includes a summary of the items in the cart and their details.

It calculates the subtotal and shipping costs based on the items in the cart.

It iterates over the items in the cart and displays each item's image, title, quantity, and price. Users can adjust the quantity of each item using plus and minus buttons.

A "Go to checkout" button allows users to proceed to the checkout page.

The component is styled with CSS to improve the visual presentation of the content.



Checkout.jsx

The component imports necessary dependencies, including "Footer," "Navbar," and other functions/hooks from React and Redux.

It uses Redux's useSelector to retrieve the current state of the shopping cart.

The page starts with a navigation bar ("Navbar") at the top to facilitate navigation to other parts of the website.

The main content of the page is divided into two main sections, "EmptyCart" and "ShowCheckout." Which one is displayed depends on whether there are items in the shopping cart.

"EmptyCart" section: If the cart is empty, this section is displayed, indicating that there are no items in the cart. It includes a heading, a message, and a button that allows the user to continue shopping by returning to the home page.

"ShowCheckout" section: If the cart has items, this section is displayed. It includes a summary of the items in the cart and their details, as well as a billing and payment form.

It calculates the subtotal and shipping costs based on the items in the cart.

It iterates over the items in the cart and displays each item's image, title, quantity, and price.

The billing and payment form includes fields for the user's name, email, address, country, state, zip code, credit card details, and security code.

A "Continue to checkout" button allows users to proceed to the final checkout step.

The screenshot displays the checkout interface of a React Ecommerce application. At the top, the header includes the site name "React Ecommerce", navigation links for "Home", "Products", "About", and "Contact", and user action buttons for "Login", "Register", and a "Cart (2)" indicator. The main content area is divided into two sections. The left section, titled "Billing address", contains a form with fields for "First name", "Last name", "Email" (pre-filled with "you@example.com"), "Address" (pre-filled with "1234 Main St"), "Address 2 (Optional)" (pre-filled with "Apartment or suite"), "Country" (a dropdown menu), "State" (a dropdown menu), and "Zip" (a text input). The right section, titled "Order Summary", provides a breakdown of costs: "Products (3)" for \$101, "Shipping" for \$30, and a bolded "Total amount" of \$131.

Product.jsx

The component imports necessary dependencies, including "Skeleton" for loading placeholders, "Link" and "useParams" for navigation, "useEffect" and "useState" for managing component state, and other components like "Footer" and "Navbar."

The component fetches data about the product and similar products from a remote API based on the product's ID provided in the route parameters.

It defines several state variables to manage loading states, the selected product, and similar products.

It uses the "useEffect" hook to trigger the data fetching when the component mounts. While the data is being fetched, loading states are set to "true" to display skeleton loading placeholders.

The "Loading" component displays loading skeletons while waiting for the product details to load.

The "ShowProduct" component displays the product details once the data is loaded. It includes an image, title, category, price, description, and buttons for adding the product to the cart or navigating to the cart page.

The "Loading2" component displays loading placeholders for similar products.

The "ShowSimilarProduct" component displays a list of similar products. It maps through the similar products' data and displays them in a grid, including images, titles, and buttons to buy or add them to the cart.

The component also includes a marquee (scrolling) section of similar products to enhance the user experience. It uses the "react-fast-marquee" library to create the scrolling effect.

The component is wrapped with the "Navbar" component for navigation.

There are some conditional rendering statements that determine whether to show loading skeletons or actual product data based on the loading state.

The component provides users with the ability to view product details, add products to their cart, and see similar products for potential purchase.

