### **Topic:**

# React E-Commerce Project – Frontend Ui OF the Site

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#### The Frontend

#### **The Research Process**

- Started By researching the best Approach to make a responsive ai for the react app
- Started Learning the Resources Of how to use the components in the react app from parent to child

#### Now The Work / Functionality with the pages

#### The Implementation

- Created the React app project by create-react-app app-name
- Installed the required packages and deleted the unnecessary files and the comments from the project
- Installed the router from "react-router-dom" to implement the navigation/routing in the app

#### The Files Now -

#### 1) The Main Pages –

#### a) The Home Page/component

- The Home This Is the main page to render the component for the app functional component
- Added it as the return component for the function it will hold all of our different pages and component, it is the parent for them.
- It will have the layout and the router in it

Eg – layout will a function holding navbar outlet and footer

This will go into the router which will have layout as parent and the other components and their routes as the childrens

- This router will be passed in the router provider to give us the routing functionality
- Couldn't implement the routing for it as suggested. Giving the error of router withing router and don't know how to create the outlet within outlet.

#### b) The Homepage -

- This will be our page where we will land when the app is started.
- Its url will be "/" and component will be <Homepage/>
- Homepage will hold the different components within it to render
  - 1. <Slider/> for the Header Slider pages
  - 2. <Sliding/> This will be our carousel slider to show the sliding component for different pages
  - 3. <FeaturedProducts /> to show the products that are features in the site
  - 4. <Categories/> to show the different products based on the selection , this will don't work its just for an example its routing will work but no component it can render
  - 5. <Contact/> This will be our newsletter section which will hold the basic contact to email section

#### c) Products Page -

- Its route will be "products/category" and component will be <Products/>
- This will hold all of our products to show and show by the category
- It has the 2 parts the first one is filters and second one where we see the banner and the products we can render ( the products are static prebuild with the fake data )
- It will have a list component
  - 1. List will show a list of dummy products
  - 2. It will show using the card component in the component file
- This will be divided into two section with the help of grid,
- Top one will be the filters includes, categories, price, lower or higher to start with (ascending or descending)
- And second part will be the product display part which will include our list and card component working together

#### d) Product page -

- Its route will be "product/:id" where id will be the product id component will be <Product/>
- This will have a single product page
- The first side which will include the images of the products and the images related to that product
- It will have second section this will include the all the data about the product it will include
  - 1. Name of the Product
  - 2. Description About it

- 3. Its Price
- 4. A Add to Cart section to increase and decrease the no of products to add in the cart ( just a dummy one )
- 5. Wishlist and a compare icon
- 6. Then at the end some info about the product
- It will have a functionality to change the quantity in the add to cart section

#### e) About Us Page -

- This will show some info about our website
- It will have a banner and the paragraph about our website
- Its route will be "/about" and component will be <About/>

#### f) Contact Us Page -

- Its route will be "/contact" and Component will be <Contact/>
- It will have a banner and a form for contact the website host
- This will include the
  - 1. Email to take who is giving the feedback
  - 2. Address -
  - 3. A feedback box to give the feedback
  - 4. A submit button to submit the from

# 2) Components - The Components In It will Have no Router Routing except links to the pages

#### a) The Nabar –

- It will be in the layout in the routing to have it on every page
- This will include a bootstrap navbar
- It will have a brand name of our site name E-Commerce Site
- It will have the following links/ routing between pages
  - 1. Homepage to go to main site landing page link to = "/"
  - 2. Men to go to the page of men category products, link to = "/products/men"
  - 3. Woman to go to the page of woman category products, link to = "/products/woman"
  - 4. Children- to go to the page of children category products, link to = "/products/children"
  - 5. Accessories to go to the page of accessories products, link to = "/products/accessories"
  - 6. About to go to the about us page, link to = "/about"
  - 7. Contact to go to the contact us, link to = "/contact"
  - 8. Cart to go to the page of men category products this will be an open modal component which will open as the button of the icon hits of the cart in the navbar
- At the end it will have an toggler button to toggle the navbar for the smaller screen devices

#### b) The Footer - <Footer/>

- It will be in the layout in the routing to have it on every page
- It will have the links to different pages to go to from the bottom of the page
- It will have the following links/ routing between pages
  - 1. Homepage to go to main site landing page link to = "/"
  - 2. Men to go to the page of men category products, link to = "/products/men"
  - 3. Woman to go to the page of woman category products, link to = "/products/woman"
  - 4. Children- to go to the page of children category products, link to = "/products/children"
  - 5. About to go to the about us page, link to = "/about"
  - 6. Contact to go to the contact us, link to = "/contact"

#### c) The Slider Component - <Slider/>

- This will be our header component that will show the different sliding images of the page we set
- It will use the dummy data as an array or the strings which will include the url of the images
- It will have some interesting java script use by which it will show the images
- The images will be show with the index of the array –
   Eg-

#### <img src={data[0]} alt="" />

It will be in an container which will be translating the size of the image based on the no of images displaying using the indexes

- The java-script will be involved here in form of previous and next button
   If previous button then the image will go back and if the next it will go to next image in our header/hero section
- The previous slide will go the last slide if no image is before it and the next will go to first image if it has no more images in after it.

#### b) The Card -

- It will take up the item as prop to show which product is going to show (based on the dummy data)
- It will show the following
  - 1. The link to product if you click on the card it will take you to the single product page of that product its url will be "/product/\${item.id}" the id will be the id of the product related to that link
  - 2. Then the card starts it will have the image, title, old price of the product, new price of the product, and the link to go to add to cart product functionality

#### c) the Cart Component -

- This will be the component which will show our products in cart
- It will be a modal with the dummy data feed into it to show the cart items (as it is a static website)
- This will have the following info about the product-

First it will map on the products

- 1. The id of the product
- 2. Its image
- 3. Its title
- 4. Its description this will be cut down by the 100 words to show only the starting words of description it is done by using the "array.substring()" method to cut out the extra words
- 5. And in end it will have the delete icon to remove the product from the cart.
- After that in that modal it will be an absolute to show it when its clicked on top of the page
- In that modal except the product details in the cart it will have the
  - 1. Subtotal of the all products
  - 2. The price
  - 3. Then a checkout button
  - 4. A reset the whole cart button
  - 5. And a button to close cart it was made just if the mobile version get cluttered and the navbar link couldn't be clicked

#### d) The category component -

- This will be a component that will be render in the homepage
- It will have link to different routes of the page of different categories
- It will include -
  - 1. The sale link to = "/sale"
  - 2. For Woman link to = "/products/woman"
  - 3. For New Season link to = "/products/newseason"
  - 4. For Men link to = "/products/men"
  - 5. For Accessories link to = "/products/accessories"
  - 6. For Children link to = "/products/children"
- This will be a flex box instead of the grid it can be done by the grid but used the flexbox instead
- It is rows between columns, columns within rows, and rows within columns kind of format
- It has 3 columns 2 rows structure
- In its rows it will include the image and the link to that product category

#### e) The Contact –

- It will just a simple component which will work as our contact through the email via like a newsletter section in the page
- It will have the texts and some icons to link to follow us

#### f) The Featured Products Component - < Featured Products/>

- This will be the part which will show our product based on some condition in here it is just the dummy data but in full website it will show the data based on our condition
- It will include some parts
- First will be the dummy data with the array of objects with id and image as their data
   Eg –

```
id: 1,
   img: "https://i.ibb.co/vkqWxvB/mh1.jpg",
   title: "Hoodie",
   isNew: true,
   oldPrice: 19,
   price: 12,
},
```

- Then the function which returns the data will include a title of featured products and a map of the data to show the products
- It will take the type form the homepage as prop to show the title
- It will send the item prop to the card to work with it

#### g) Features - <Features/>

- This will a component displayed on the homepage
- It will show the features our website provides to the users
- It will have div with the images and the features our website provides to user

#### h) List Component - <List/>

- This will be render in the products page it will decide the no of products to be render on a single page ( it is static if it goes to the full stack it will show the products based on the no. products per page )
- It will have the first part which is dummy data an array of the objects –
   Eg –

```
{
    id: 1,
    img: "https://i.ibb.co/vkqWxvB/mh1.jpg",
    title: "Hoodie",
    isNew: true,
```

```
oldPrice: 19,
price: 12
},
```

• The next part will be return function which will map on the data and render the products by the card component on the page — so it will be on the products page in which it will render and in it, it will go the card page to render the products in the form of the cards.

#### I) The Sliding Component - the Carousel Component - <Sliding/>

- This will be shown in the home page just below the header/hero section of our page
- This will have a long code as I don't know that much of java- script right now, it will be designed to show the images to responsive to every devices (I took the inspiration from others for this part still weak in the bootstrap part that includes responsiveness)
- It will have a basic structure with just change in separation of the cards/div within the carousel slider and the no of the cards shown in a device based on its sizse
- This will have
  - 1. The slider part Eg-

- 2. Then there will be part that decides the number of products shown on a selected size of the device in a carousel
  - this is the part that could be if done can be done very minimalistic and with just render of our card component we created before
  - But due to incompatibility with my design and the function writing I didn't use that method
  - That includes to increase or reduce the side/the card based on the size of the viewport and increase the no. of slides required in order to explore all the procducts

Eg-

3. Then there will be our card with inline styling the outlined is not working and the carousel sill giving the overflow in the home page

```
Eg —

<div style={{width:"18rem"}} className="card w-100 overflow-hidden">

<img src="https://i.ibb.co/vkqWxvB/mh1.jpg" alt="mh1" className="card-img-top"

style={{height:"25rem"}} />

<div className="card-body border border overflow-y-auto">

<h3 className="item-price">₹1000</h3>

<h5 className="card-title">This Is A Sample Product</h5>

Some quick example text to build on the card title and make up the bulk of the card's content.

<Link to="#" className="btn btn-primary d-flex justify-content-around align-items-center w-50 mx-auto">

<i className="fa fa-cart-shopping"></i>
Add To Cart</Link>

</div>

</div>
```

This is an example of the card component in the sliding

#### **Learnings and the Conclusions:**

- 1. Know How to Create the router with the layout and the outlet and the router
- 2. Learn how to create a modal with the css and the props passing from one component to another
- 3. Learn how to create an carousel without the java script (still not that good with it)
- 4. Learn About the React And Routing and The Component Working model
- 5. Learned to How to use the Dummy data to show the products with the help of the props passing
- 6. Learned how to use the states management in the react to change the state of the variable for the different functionality

#### The Resources Followed:

For the better referral of how to created I took inspiration from the online resources that to follow step by step to how to implement different things in the react in frontend and create a static site

This been inspired by the ecommerce app for beginners by the lama dev

Some of my peers also helped to have some missing functionality in it

#### Thankyou note:

Thankful to the community of the Internshala to help me with this project to understand how to utilize the proper tools that I can

Thankful to my peers that help me to know about the new things and helped me to put my skills to appropriate use

Special thanks to the lama dev youtube channel where I get the inspiration for this project this couldn't be possible without him to made this project this easily

#### Missing Features / Errors / Mistakes During the projects:

- The site is responsive but the home page due to the carousel buttons is overflowing
- The routing is not as supposed to be when I am doing it, it is showing the Router Within Router Error Can be fixed by the Outlet But I don't Understand how to put outlet within outlet that well
- The Ui Is Minimal
- The Cart is not Being displayed well because of the navbar, using the bootstrap so when the navbar expands then the cart modal comes above it, so its stops the user on the mobile to unable to close the cart so had to shift it down
- Still don't know how to make a carousel with the java script , trying to get hang of it.

If There is more errors you can let me know and I will try to fixit as best as I can, thankyou