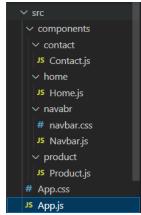
- 1. >npx create-react-app routing
- 2. Create components folder in src folder
 - a. Create 4 folders in src navbar, home, product, contact
 - b. Create js file for each in respective folder



3. Code for navbar

```
JS Navbar.js X
                                           > ...
                                                     # navbar.css ×
                                                     src > components > navabr > # navbar.css > 😭 .navbar nav h1
src > components > navabr > JS Navbar.js > ...
       import React from 'react'
                                                            .navbar{
                                                               background-color: aqua;
       export default function Navbar() {
                                                            .navbar nav
           <div className='navbar'>
                                                               display: flex;
                                                               gap: 10px;
               <h1>Reat Routing</h1>
                                                               align-items: center;
                                                               margin: 0 20px;
               <a href="">Home</a>
               <a href="">Product</a>
               <a href="">Contact</a>
                                                            .navbar nav h1
                                                            margin-right: auto;
                                                      15
 17
```

4. Display navbar component in App compoenet

5. Npm start and check output

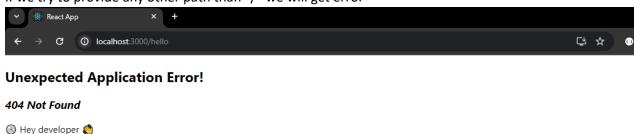


- a. >npm i react-router-dom
 - b. Create router array and attach it to the RouterProvider as property in index.js

c. Output

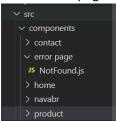


d. If we try to provide any other path than "/" we will get error



You can provide a way better UX than this when your app throws errors by providing your own ErrorBoundary or errorElement prop on your route.

- 7. Handling Error page
 - a. Create error page folder inside compoenets folder. In error page folder create NotFound.js



b. Code for NotFound.js

c. Check output



404 error page not found



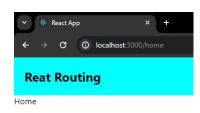
- 8. Handling routing from navbar
 - a. In index.js provide children array

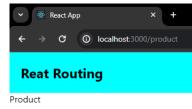
b. In Navbar.js provide links

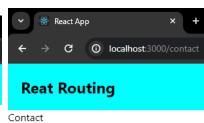
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c. In App.js provide <Outlet/> for component switching

d. Output





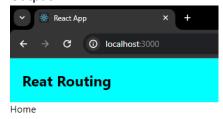


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9. Handling index page (displaying home component as home/index page)

a. In index.js provide index:true

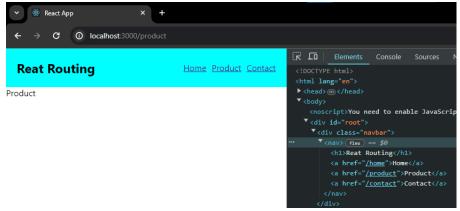
b. Output



c.

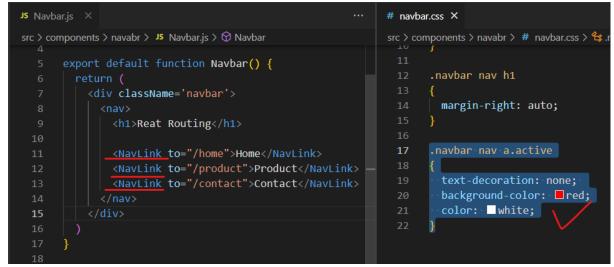
- 10. Preventing page from getting refersh
 - a. If we click on home/contact/product from navbar then ypu will see, our page is getting refersh. As REACT is used to create SPA, we have to prevent our page from getting resfesh. We can achieve this bye converting anchor tag to Link tag provided by react-router-dom

But if you inspect, you will see anchor tag only



11. Providing CSS on navbar

a. Convert Link to NavLink – this will automatically add active class on anchor tag (inspect and check)



b. Output



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- 12. Implementing dynamic routing
 - a. Create products.json inside src folder
 - b. Code for products.json

```
[
    "id": 1,
    "title": "Backpack",
    "price": 109.95,
    "image": "https://fakestoreapi.com/img/81fPKd-2AYL._AC_SL1500_.jpg"
    },
    {
        "id": 2,
        "title": "Slim T-Shirts ",
        "price": 22.3,
        "image": "https://fakestoreapi.com/img/71-3HjGNDUL._AC_SY879._SX._UX._SY._UY_.jpg"
    },
    {
        "id": 3,
        "title": "Cotton Jacket",
        "price": 55.99,
        "image": "https://fakestoreapi.com/img/71li-ujtlUL._AC_UX679_.jpg"
    }
]
```

c. Fetch data from products.json into Product.js and display into a card

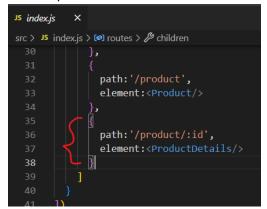
```
import React from 'react'
import products from '../../products.json'
                                                                    .card
import './card.css'
import { Link } from 'react-router-dom'
export default function Product() {
  return (
  <div className='card'>
        products.map(product =>
            return (
                <div className='card-items'>
                    <img src={product.image} width="200px"</pre>
height="200px"/>
                    <h2>{product.title}</h2>
                    <h4>Price : {product.price}</h4>
                    <button><Link
to={`/product/${product.id}`}>View More</Link></button>
          })
```

```
Create card.css in product folder. Code —
.card
{
    display: flex;
    justify-content: space-evenly;
    margin-top: 10px;
}
.card-items
{
    text-align: center;
    border: 1px solid black;
    padding: 15px;
    border-radius: 25px;
    box-shadow: 3px 5px 5px grey;
}
.card-items h2
{
    color: red;
}
```



d. Create ProductDetails.js component in product folder

e. Provide path for ProductDetails from Index.js

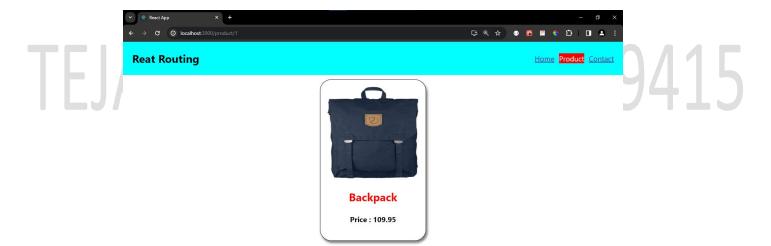


Output:



ProductDetails

13. Displaying product in ProductDetails.js



14. Back button functionality

```
JS ProductDetails.js X
src > components > product > JS ProductDetails.js > ♦ ProductDetails
       import { useParams,useNavigate } from 'react-router-dom';
       import products from '../../products.json'
       export default function ProductDetails() {
        const param=useParams() //to get id from url
         const navigate=useNavigate() /
         console.log(param.id);
           <div className='card'>
             products.map((product) =>
                                  if(product.id==param.id)
                                       <div className='card-items' style={{width:200}} key={product.id}>
                                         <img src={product.image} width="200px" height="200px"/>
                                         <h2>{product.title}</h2>
                                         <h4>Price : {product.price}</h4>
                                         <button onClick={()=>navigate('/product')}>Back</button>
              i localhost:3000/product/2
```

Reat Routing



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15. Search parameter/query parameter

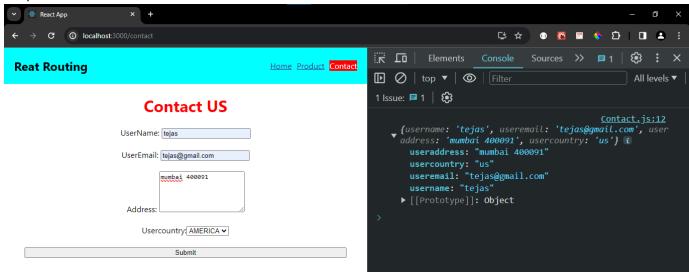
product/1 => here 1 is called as dynamic parameter => useParams()

product?name=backpack => here name is called as Search parameter/query parameter => useSearchParams()



```
import React, { useState } from 'react'
export default function Contact() {
  const [contactForm, setContactForm] = useState({
    username:'',
   useremail:'
    useraddress:''
   usercountry:''
  })
  const handleSubmit = (event)=>{
      event.preventDefault()
      console.log(contactForm);
  const handleChange = (event)=>{
    //console.log(event.target.value);
    // console.log(event.target.name);
    setContactForm(
        ...contactForm,
        [event.target.name]:event.target.value
  return (
      <h1 style={{color:"red",textAlign:"center"}}>Contact US</h1>
      <form onSubmit={handleSubmit} style={{textAlign:'center'}}>
          <label htmlFor="username">UserName: </label>
          <input type="text" id='username'</pre>
                               name='username'
                               value={contactForm.username}
                               onChange={handleChange}
          <label htmlFor="useremail">UserEmail: </label>
          <input type="email" id='useremail'</pre>
                               name='useremail'
                               value={contactForm.useremail}
                               onChange={handleChange}/>
          <label htmlFor="useraddress">Address: </label>
          <textarea id="useraddress" cols="20" rows="5"</pre>
                               name='useraddress'
                               value={contactForm.useraddress}
                               onChange={handleChange}></textarea>
          <label htmlFor="usercountry">Usercountry:</label>
          <select name="usercountry" id="usercountry"</pre>
                      value={contactForm.usercountry}
                      onChange={handleChange}>
            <option value="india">INDIA</option>
            <option value="us">AMERICA</option>
            <option value="china">CHINA</option>
          </select>
          <input type="submit" style={{width:"100vh"}}/>
      </form>
```

Output:



17.

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