

1. Creating app in react

```
C:\My Workspace\Bootcamp\react 5-3-25\react>npx create-react-app bootcamp-app
Need to install the following packages:
create-react-app@5.1.0
Ok to proceed? (y) y
```

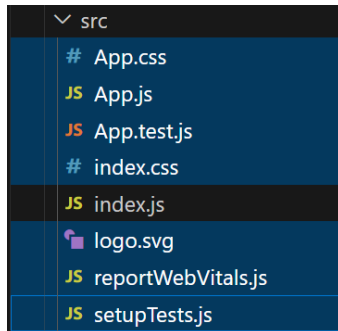
2. Install required packages

- C:\My Workspace\Bootcamp\react 5-3-25\react>cd bootcamp-app
- C:\My Workspace\Bootcamp\react 5-3-25\react\bootcamp-app>npm i react-router-dom
- C:\My Workspace\Bootcamp\react 5-3-25\react\bootcamp-app>npm i bootstrap@5.3.3

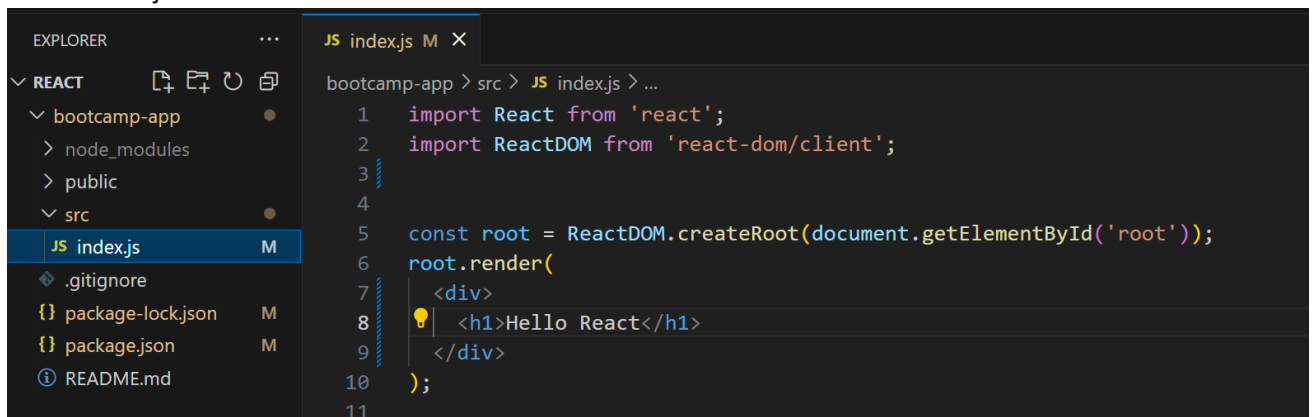
3. Run project

- C:\My Workspace\Bootcamp\react 5-3-25\react\bootcamp-app>npm start

4. Open project in vs code and delete all files inside src excluding index.js

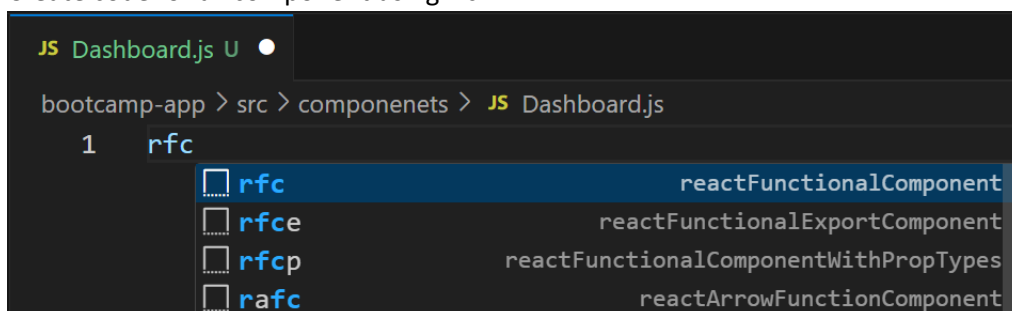


5. Make index.js look like



6. Create all required components in react application

7. Create code for all component using rfc



8. Create project wireframe

9. According to wireframe add components

```
JS index.js M X
bootcamp-app > src > JS index.js > ...
5
6
7 const root = ReactDOM.createRoot(document.getEl
8 root.render(
9   <>
10    <Dashboard/>
11  </>
12 );
13

JS Dashboard.js U X
bootcamp-app > src > componenets > JS Dashboard.js > Dashboard
1 import React from 'react'
2 import Navbar from './Navbar'
3
4 export default function Dashboard() {
5   return (
6     <div>
7       <Navbar/>
8     </div>
9   )
10 }
11
```

10. Add bootstraps css and js reference inside index.js file

```
JS index.js M X
bootcamp-app > src > JS index.js > ...
1 import React from 'react';
2 import ReactDOM from 'react-dom/client';
3 import Dashboard from './componenets/Dashboard';
4 import '../node_modules/bootstrap/dist/css/bootstrap.min.css'
5 import '../node_modules/bootstrap/dist/js/bootstrap.min.js'
6
```

11. Code for navbar

- Copy navbar code from bootstrap and add inside Navbar.js
- You might get errors – just close the tags like – hr, input etc and change class to className
- Code

```
import React from 'react'

export default function Navbar() {
  return (
    <div>
      <nav className="navbar navbar-expand-lg bg-body-tertiary" data-bs-theme="dark">
        <div className="container-fluid">
          <a className="navbar-brand" href="#">Navbar</a>
          <button className="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-target="#navbarSupportedContent" aria-controls="navbarSupportedContent" aria-expanded="false" aria-label="Toggle navigation">
            <span className="navbar-toggler-icon"></span>
          </button>
          <div className="collapse navbar-collapse" id="navbarSupportedContent">
            <ul className="navbar-nav me-auto mb-2 mb-lg-0">
              <li className="nav-item">
                <a className="nav-link active" aria-current="page" href="#">Home</a>
              </li>
              <li className="nav-item">
                <a className="nav-link active" aria-current="page" href="#">Contact</a>
              </li>
              <li className="nav-item">
                <a className="nav-link active" aria-current="page" href="#">Products</a>
              </li>
            </ul>
          </div>
        </div>
      </nav>
    </div>
  )
}
```

```

        </li>
        <li className="nav-item">
          <a className="nav-link active" aria-current="page"
href="#">Cart</a>
        </li>
      </ul>
    </div>
  </div>
</nav>
</div>
)
}

```

d. Output



12. Implementing routing

- a. Create routes array inside index.js using `createBrowserRouter`

```

const routes = createBrowserRouter([
  {
    path: '/',
    element: <Dashboard/>,
    errorElement: <ErrorPage/>,
    children: [
      {
        path: '/contact',
        element: <Contact/>
      },
      {
        path: '/product',
        element: <Product/>
      },
      {
        path: '/product/:id',
        element: <ProductDetails/>
      }
    ]
  }
])

```

```
JS index.js M X
bootcamp-app > src > JS index.js > ...
11
12 > const routes = createBrowserRouter([ ...
32 ])
33
34 const root = ReactDOM.createRoot(document.getElementById('root'));
35 root.render(
36   <RouterProvider router={routes}>
37     <Dashboard/>
38   </RouterProvider>
39 );
40
```

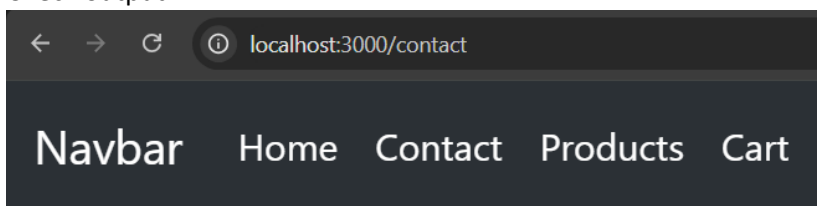
- b. Add above routes array on RouterProvider as –

```
const root = ReactDOM.createRoot(document.getElementById('root'));
root.render(
  <RouterProvider router={routes}>
    <Dashboard/>
  </RouterProvider>
);
```

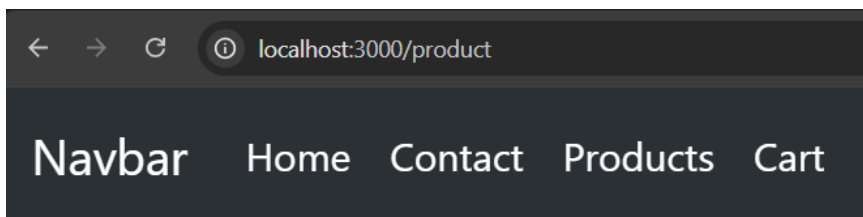
- c. Add <Outlet/> below Navbar inside Dashboard.js to render components dynamically

```
JS Dashboard.js U X
bootcamp-app > src > components > JS Dashboard.js > Dashboard
1 import React from 'react'
2 import Navbar from './Navbar'
3 import { Outlet } from 'react-router-dom'
4
5 export default function Dashboard() {
6   return (
7     <div>
8       <Navbar/>
9       <Outlet/>
10    </div>
11  )
12 }
13
```

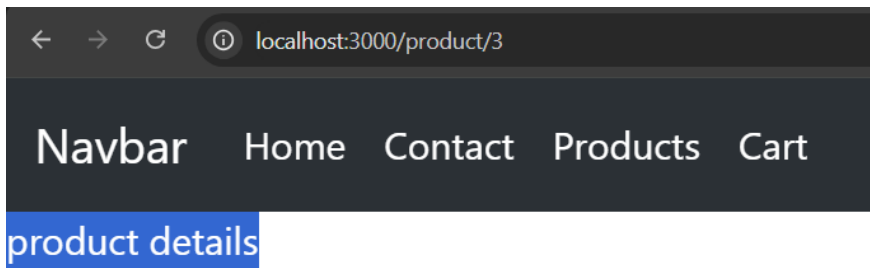
- d. Check output



contact us



all products



13. Implementing routing inside navbar

- Instead of a tag, we will use Link tag to add routing as -

```
JS Navbar.js U X
bootcamp-app > src > components > JS Navbar.js > Navbar
3 export default function Navbar() {
5   <div>
6     <nav className="navbar navbar-expand-lg bg-body-tertiary" data-bs-theme="dark">
7       <div className="container-fluid">
8         <Link className="navbar-brand" to="/">Navbar</Link>
9         <button className="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-target="#nav
10         <span className="navbar-toggler-icon"></span>
11       </button>
12       <div className="collapse navbar-collapse" id="navbarSupportedContent">
13         <ul className="navbar-nav me-auto mb-2 mb-lg-0">
14           <li className="nav-item">
15             <Link className="nav-link active" aria-current="page" to="/">Home</Link>
16           </li>
17           <li className="nav-item">
18             <Link className="nav-link active" aria-current="page" to="/contact">Contact</Link>
19           </li>
20           <li className="nav-item">
21             <Link className="nav-link active" aria-current="page" to="/product">Products</Link>
22           </li>
23           <li className="nav-item">
24             <Link className="nav-link active" aria-current="page" to="/">Cart</Link>
25           </li>

```

- DONE !!

- Go to navbar and click and check whether components are rendering

14. Create card inside Product.js

Product.js

```
import React from 'react'
const products =
[ {name:'mobile',price:200},{name:'laptop',price:600},{name:'mobile',price:200},{name:'laptop',price:600},
{name:'mobile',price:200},{name:'laptop',price:600}]
export default function Product() {
  return (
    <div className='container'>
      <div className='row'>
        {
          products.map(product => {
            return (
              <div className='col-3'>
                <h1>{product.name}</h1>
              </div>
            )
          })
        }
      </div>
    </div>
  )
}
```

15. Fetching products data from api - <https://dummyjson.com/products> and displaying into Product.js component

- Hook in react are nothing but built in functions of react
- What is useState() hook?
When state(default value) of variable changes, we want to render component again, here useState() help us to do that!
- Code for Product.js to display all products in card using fetch api

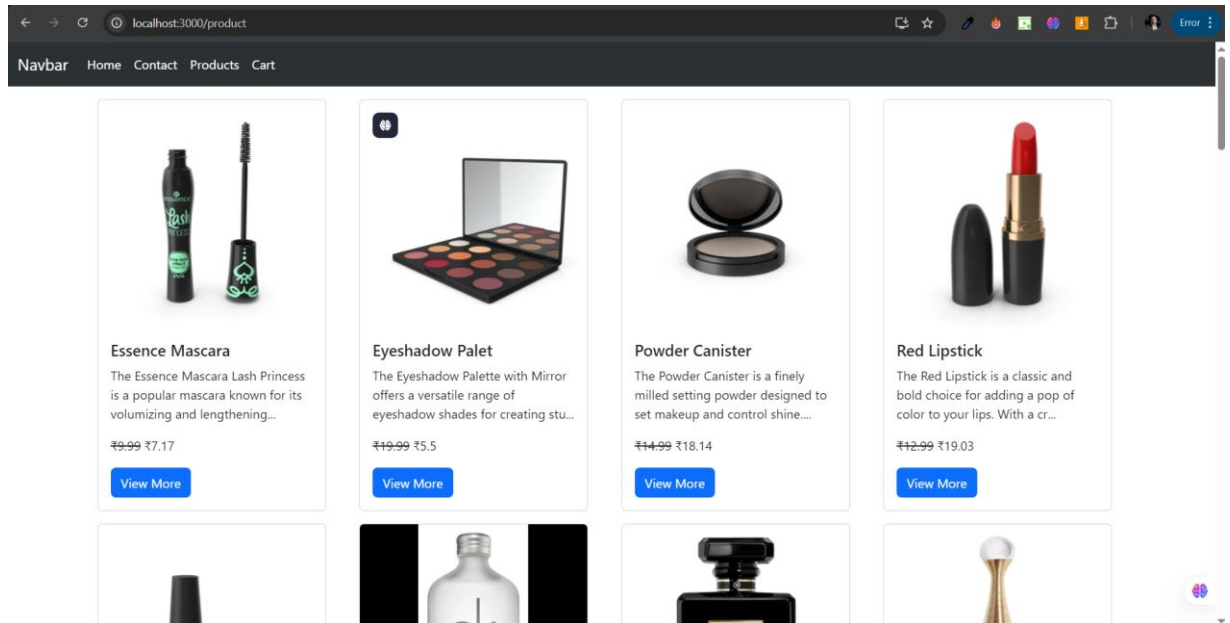
```
import React, { use, useEffect, useState } from 'react'
// const products = [{name:'mobile',price:200},{name:'laptop',price:600}]
export default function Product() {

  //let products = [{name:'mobile',price:200},{name:'laptop',price:600}]
  //let[variableToStoreDefaultvalue, functionToUpdateVariable]=useState(default state/value)
  let[products, setProducts ]=useState(null)
  //let [counter, setCounter]=useState(0)
  async function fetchProucts()
  {
    let response=await fetch("https://dummyjson.com/products",{method:'GET'})
    let data=await response.json()
    console.log(data);
    console.log(data.products);
    //products = data.products
    setProducts(data.products)
  }
  //fetchProucts()
  // useEffect(()=>{
  //   fetchProucts()
  // },[counter])
  useEffect(()=>{
    fetchProucts()
  },[])
  return (

    <div className='container mt-3'>
      { /* <p>{counter}</p>
      <button onClick={()=>{setCounter(counter+1)}}>change counter</button> */ }
      <div className='row'>
        {
          products && products.map(product => {
            return (
              <div className='col-3 mb-3' key={product.id}>
                <div className="card" style={{width:18+"rem"}}>
                  <img src={product.thumbnail} className="card-img-top" alt="..." />
                  <div className="card-body">
                    <h5 className="card-title">{product.title.slice(0,15)}</h5>
                    <p className="card-text">{product.description.slice(0,95)}...</p>
                    <p><del>₹{product.price}</del>   ₹{product.discountPercentag
e}</p>

                    <a href="#" className="btn btn-primary">View More</a>
                  </div>
                </div>
              </div>
            )
          })
        }
      </div>
    </div>
  )
}
```

d. Output



e.

16. Parameterise routing

- Here we have to display details of particular product when we click on View more button
- Add link to view more button

```
<div className='col-3 mb-3' key={product.id}>
  <div className="card" style={{width:18+"rem"}}>
    <img src={product.thumbnail} className="card-img-top" alt="..." />
    <div className="card-body">
      <h5 className="card-title">{product.title.slice(0,15)}</h5>
      <p className="card-text">{product.description.slice(0,95)}...</p>
      <p><del>₹8377;{product.price}</del> ₹8377;{product.discountPercentage}</p>
      <Link to={` /product/${product.id}`} className="btn btn-primary">View More</Link>
    </div>
  </div>
</div>
```

- Code inside ProductDetails.js to fetch product from its id and also implementing back button

```
import React, { useEffect, useState } from 'react'
import { Link, useNavigate, useParams } from 'react-router-dom'

export default function ProductDetails() {
  let urlParams=useParams()
  let navigate=useNavigate()
  console.log(urlParams);
  console.log(urlParams.id);
  let id = urlParams.id
  let[product, setProduct]=useState(null)
  async function fetchProuctById()
  {
    let response=await fetch(`https://dummyjson.com/products/${id}`, {method: 'GET'})
    let data=await response.json()
    console.log(data);
    setProduct(data)
  }
  useEffect(()=>{fetchProuctById()}, [])
  return (
```

```

product &&
<div className='container mt-3'>
  <div className='row'>
    <div className='col-3 mb-3' key={product.id}>
      <div className="card" style={{width:18+"rem"}}>
        <img src={product.thumbnail} className="card-img-top" alt="..."/>
        <div className="card-body">
          <h5 className="card-title">{product.title.slice(0,15)}</h5>
          <p className="card-text">{product.description.slice(0,95)}...</p>
          <p><del>₹{product.price}</del>   ₹{product.discountPercentag
e}</p>
          <button className='btn btn-dark text-light'
onClick={()=>{navigate('/product')}}>Back</button>
        </div>
      </div>
    </div>
  </div>
</div>
)
}

```

d. Output



Essence Mascara

The Essence Mascara Lash Princess is a popular mascara known for its volumizing and lengthening...

~~₹9.99~~ ₹7.17

Back