

Material UI

Basic

Hook API:

- Doesn't bind with the component

Higher order component AI:

- Bind with the component

React router

```
• /* A <Switch> looks through its children <Route>s and  
• renders the first one that matches the current URL. */  
• <Switch>  
• <Route path="/about">  
• <About />  
• </Route>  
• <Route path="/users">  
• <Users />  
• </Route>  
• <Route path="/">  
• <Home />  
• </Route>  
• </Switch>
```

- Don't put path "/" first otherwise everything will get match to it

Things to remember for React

React Router

- Router needs to wrap to entire app so that useContext doesn't reload everytime you enter new website
 - So need to wrap Router around entire app
 - [javascript - React-Router is refreshing page when I follow a route using <a> tag - Stack Overflow](#)

Update object inside array

```
let handleClick = () => {  
  /* how to find item  
  https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Array/find  
  https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Array/indexOf  
  */  
  let object = cart.find(item => item.id == id)  
  let index = cart.indexOf(object)  
  alert("Object is is " + id)  
  if(index!=-1) {
```

```

        let newCart = [...cart]
        alert("item not found")
        newCart.push({id, quantity:1})
        setCart(newCart)
    }
    else {
        let newCart = [...cart]
        alert('item found ' + newCart[index].quantity)
        newCart[index].quantity = cart[index].quantity +1;
        setCart(newCart)
    }
}

```

IBM React app architecture

Index

- AppContextWrapper

AppContextWrapper

- <AppContextProvider>
 - App

App

- <Router>
 - NavBar
 - <Route>
 - AboutPage
 - UsersPage
 - CartPage
 - HomePage

NavBar

- AppMenu

UsersPage

HomePage

- <Grid>
 - Order

Order

- OrderDetails

OrderDetails

- OrderActions

CartPage

Props passed:

Home -> Order (orders from orderInfo) -> OrderDetails(order)

order

- href, name, description, price, id

