### 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](https://stackoverflow.com/questions/33964566/react-router-is-refreshing-page-when-i-follow-a-route-using-a-tag)

### 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