Wednesday, March 23, 2022 4:38 PM

```
Working with list challenges
                                       <div> { 2 + 2 } </div>
JSX interpolation syntax () can
 work with
  ▶ Simple Expressions
                                       <div> { getDate() } </div>
  ▶ Function calls
 JSX interpolation syntax {} can't include statements like
                                       <div> {
                                           for( let x : values)
  ▶ For loop
                                               if(x)
  ▶ If Statements
                                                  doSomething()
                                           }
                                       </div>
```

We Render a List in React Using array.map function

• We map each item of the array with a JSX Element

```
{ values.map ( value => {value ) }
```

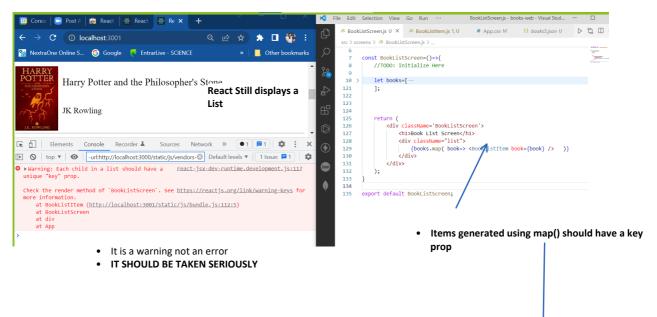
- Now we get one JSX per value in the list.
- If the value rendered is a complex item it is recommended to delegate the details to separate component and render that component

Key 'prop'

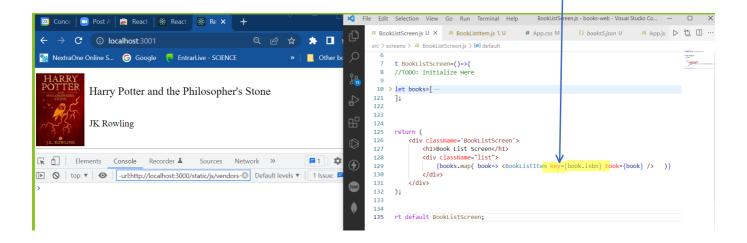
- Whenever we render a List with several items, React needs to identify each item uniquely.
- This helps react modify the list in an efficient manner when we edit or delete list items
 - o It can re-render only the item that has changed
- If key prop is missing, react gives a warning
- It can still edit or delete the item, but to do that
 - o It re-renders entire list.
 - o It becomes in-efficient
- Key prop should be specified to the item generate in the map function
- Key should be a unique value
 - o Most business object has some kind of id
 - O Book has isbn
- Key prop is not accessible in the Child component.

- o It is only for react's internal use
- If you need that info for your own purpose add it to some other props

With missing key prop



Find a Unique Key and Supply



Remember

• This key is not accessible as props of BookListItem

What If you don't have a unique key in your list item

- It is highly unlikely in any business scenrio
 - O You should have a key
- We may use some unique value to generate a key
 - o Common value used
 - Index of the current item
 - Available as second parameter in map function call back
 - Random number generated from a large pull
 - Current date in millisecond
 - $\verb|O| Most of these can suppress the warning but may not be very useful from app perspective\\$
 - You can use "index" if you are sure you are not going to delete the content and index will not change.