WEB TECHNOLOGIES

React.JS – Key Property

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React.JS – Key property
key property

- When returning an array or list of elements, the individual element should be uniquely identified by a **key** property

- The key property helps React identify each element in the list for rendering or updating etc.

- Not specifying the key property will display a warning on the console:

  Warning: Each child in an array or iterator should have a unique "key" prop.

When returning a list of elements:

```
function Stuff () {
    return (
    [
      <p>Batman</p>,
      <p>Ironman</p>,
      <p>Spiderman</p>
    ]
    );
};
```

Specify key property as follows:

```
function Stuff () {
    return (
    [
      <p key="1">Batman</p>,
      <p key="2">Ironman</p>,
      <p key="3">Spiderman</p>
    ]
    );
};
```

React.JS – Key property
Using map method

- To Recap, the map method on an array or list, calls a callback function for each element of the array

const numbers = [1, 2, 3, 4, 5];

const doubled = numbers.map((number) => number * 2);

console.log(doubled);

- We return a <li> element for each item.

```
const numbers = [1, 2, 3, 4, 5];
const listItems = numbers.map((number) => <li>{number}</li>);
```

We include the entire listItems array inside a <ul> element, and render it to the DOM:

```
ReactDOM.render(
    <ul>{listItems}</ul>,
    document.getElementById('root') );
```

The code will result in error, as the list of items does not have the key property.

React.JS – Key property
Using map method

- By assigning the key property to the list items

```
function NumberList(props) {
    const numbers = props.numbers;
    const listItems = numbers.map((number) =>
            <li key={number.toString()}> {number} </li>
    );
    return ( <ul>{listItems}</ul> );
}
const numbers = [1, 2, 3, 4, 5];
ReactDOM.render(
    <NumberList numbers={numbers} />,
    document.getElementById('root') );
```

THANK YOU

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