

# Adding Lists

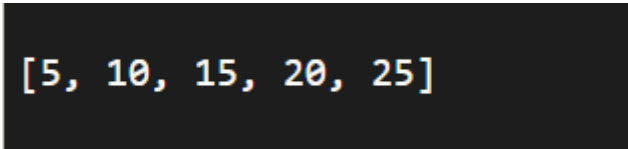
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**Lists** are used to display data in an **ordered format** and are mainly used to display **menus** on **websites**. In React, Lists can be created in a similar way as we create lists in **JavaScript**. Let us see how we transform Lists in regular JavaScript.

The **map()** function is used for **traversing** the lists. In the below example, the **map()** function takes an array of numbers and multiplies their values with 5. We assign the new array returned by **map()** to the variable **multiplyNums** and log it.

```
var numbers = [1, 2, 3, 4, 5];  
const multiplyNums = numbers.map((number)=>{  
    return (number * 5);  
});  
console.log(multiplyNums);
```

The above JavaScript code will log the output on the console. The output of the code is given below.



```
[5, 10, 15, 20, 25]
```

Now, let us see how we create a list in React. To do this, we will use the **map()** function for **traversing** the list element, and for updates, we enclosed them between **curly braces** {}. Finally, we assign the array elements to `listItems`. Now, include this new list inside `<ul> </ul>` elements and render it to the **DOM**.

```
import React from 'react';

import ReactDOM from 'react-dom';

const myList = ['Peter', 'Sachin', 'Kevin', 'Dhoni', 'Alisa'];

const listItems = myList.map((myList)=>{

  return <li>{myList}</li>;

});

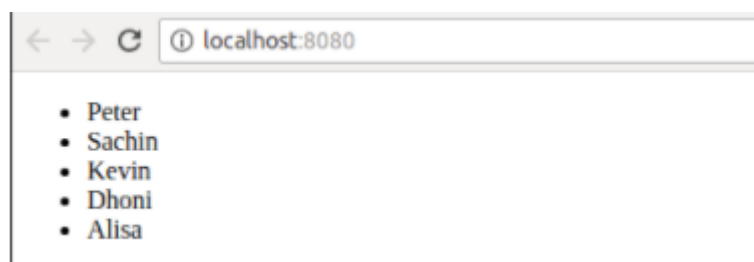
ReactDOM.render(

  <ul> {listItems} </ul>,

  document.getElementById('app')

);

export default App;
```



## Rendering Lists inside components

In the previous example, we had directly rendered the list to the **DOM**. But it is not a good practice to render lists in React. In React, we had already seen that everything is built as **individual components**. Hence, we would need to render lists inside a component. We can understand it in the following code.

```
import React from 'react';

import ReactDOM from 'react-dom';

function NameList(props) {

  const myLists = props.myLists;

  const listItems = myLists.map((myList) =>

    <li>{myList}</li>

  );

  return (

    <div>

      <h2>Rendering Lists inside component</h2>

      <ul>{listItems}</ul>

    </div>

  );

}
```

```
const myLists = ['Peter', 'Sachin', 'Kevin', 'Dhoni', 'Alisa'];  
  
ReactDOM.render(  
  <NameList myLists={myLists} />,  
  document.getElementById('app')  
);  
  
export default App;
```

