

Concepts in Focus

- Making API Call while using React Hooks
 - Avoiding Unnecessary API Calls
- Updating Object in the State
- Leaderboard Application Code

1. Making API Call while using React Hooks

1.1 Avoiding Unnecessary API Calls

Leaderboard Component Code

File: src/components/Leaderboard/index.js

```
1  ...
2  const Leaderboard = () => {
3    ...
4    useEffect(() => {
5      const getLeaderboardData = async () => {
6        setApiResponse({... })
7        const response = await fetch(url, options)
8        ...
9      }
10     getLeaderboardData()
11   })
12   ...
```

JSX

```
13 }  
14  
15 export default Leaderboard
```

Collapse ^

In the above code, Effect execute multiple times, and many API Calls are made

The Effect should execute, and an API call should be made only once, so pass **empty dependency array** as a second argument to the

useEffect

File: src/components/Leaderboard/index.js

```
1 ...  
2 ▾ const Leaderboard = () => {  
3   ...  
4 ▾   useEffect(() => {  
5 ▾     const getLeaderboardData = async () => {  
6       setApiResponse({... })  
7       const response = await fetch(url, options)  
8       ...  
9     }  
10    getLeaderboardData()  
11  }, [])  
12  ...  
13 }  
14  
15 export default Leaderboard
```

JSX

Collapse ^

2 Updating Object in the State

Class Components

- The Object provided to the `setState()` will **merge** into the current state object
- The newly created object contains all the keys and values



Function Components

- The Object provided to the setter function will **replace** the current state object
- The newly created object may not contain all the keys and values



While updating the state, use callback function and **spread operator** to get all the key values from the current state object

File: src/components/Leaderboard/index.js

```
1  ...
2  const Leaderboard = () => {
3    const [apiResponse, setApiResponse] = useState({...})
4
5    useEffect(() => {
6      const getLeaderboardData = async () => {
7        ...
8        const response = await fetch(url, options)
9        ...
10     if (response.ok) {
```

JSX

Expand

3. Leaderboard Application Code

Use the below command to get the Final Code for Leaderboard Application

```
1  ccbp start RHSIVA7S2I
```

SHELL

✓ MARKED AS COMPLETE

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