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

```
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

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

```
{
  status: "IN_PROGRESS",
  data: null,
  errorMsg: null
}

Current State

this.setState({
  status: "SUCCESS",
  data: responseData
})

Updating State using
  setState() method

New State

New State
```

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

```
{
  status: "IN_PROGRESS",
  data: null,
  errorMsg: null
}

Current State

setApiResponse({
  status: "SUCCESS",
  data: responseData
})

Updating State using

Setter function

New State

Setter function
```

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

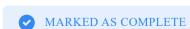
File: src/components/Leaderboard/index.js

SHELL

3. Leaderboard Application Code

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

1 ccbp start RHSIVA7S2I



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