

Lifecycle hooks useEffect

Friday, March 25, 2022 4:52 PM

- Now react function components can manage their lifecycle using useEffect hook
- It provides all necessary functionality with more flexibility

useEffect

- The function takes a callback which is called to manage the life cycle
- It is called in several different formats

1. Unconditional

```
const Component = (props) =>{  
  useEffect( () => {  
    //called after first and every render  
    if( book==null){  
      setBook(fetchBook(book) )  
    }  
  });  
  return <div>your JSX here </div>;  
}
```

- The function is a combo of
 - componentDidMount
 - componentDidUpdate
- Called after
 - first update
 - Every other render

1. First component function will return the JSX

2. useEffect will called

- Most likely it will cause re-render

3. Be careful. You may end up in infinite loop of useEffect and render

- Write a conditional logic

2 Use Effect with dependency

```
const Component = (props) =>{  
  useEffect( () => {  
    //called after first and every render  
    setBook(fetchBook(book) )  
  }, [book, props.isbn ]);  
  return <div>your JSX here </div>;  
}
```

- We pass a second parameter containing a list of dependencies
- This useEffect will be called
 1. after first render (componentDidMount)
 2. Everytime any of the given property changes
 - If none of given property changes it is not called again
 - If book or book.isbn changes this would be called again.

- You can think there is a built-in condition check here

3. useEffect with empty dependency list

- Empty dependency list is not same as having no dependency list

```
const Component = (props) =>{  
  useEffect( () => {  
    //called after first and every render  
    setBook(fetchBook(book) )  
  }, []);  
  return <div>your JSX here </div>;  
}
```

- Called after first render
 - useEffect are always called first render
- Now it should be called whenever one of the dependency changes
 - Since dependency list is empty, it will never be called again
- It will act as componentDidMount

Cleanup Logic

- The callback can return a function
- If callback returns function it is called for cleanup before next useEffect

```
const Component = (props) =>{  
  useEffect( () => {  
    //called after first and every render  
    setBook(fetchBook(book) )  
    return ()=>{  
      }  
    }, [ ]);  
  return <div>your JSX here </div>;  
}
```

- Called to clean up the current effect
- It is called before
 - Next useEffect is called
 - Component is unmounted
- In this case this function acts as componentWillUnmount