

10. Visual Diagram - Cleanup Function

Effect Runs ■ ▼ Cleanup (old effect removed) ■ ▼ Effect Runs Again

Student Exercises (For Practice)

Exercise 1:

Create a component using `useEffect` to show the current time every second.

Exercise 2:

Create a component that fetches user data when the component loads.

Exercise 3:

Create a component that saves theme selection (dark/light) in `LocalStorage`.

Exercise 4:

Create a component that detects window scroll and prints scroll height.

Exercise 5:

What happens if we remove the dependency array? Explain in your own words.

Quick Summary Table

Case	Runs When?
<code>useEffect(callback, [])</code>	Runs once (on mount)
<code>useEffect(callback)</code>	Runs on EVERY render
<code>useEffect(callback, [value])</code>	Runs only when value changes
Effect cleanup	Runs before next effect or on unmount