React custom hooks

Custom hooks in reactjs are a powerful feature that allow us to encapsulate logic that can be reused across multiple components. They allow the same rules as regular react hooks but offer more flexibility by letting us abstract away repetitive / complex logic into reusable functions.

The main reason is used custom hook is to maintain the concept of DRY principle in react apps. We are using custom hook If a component have

Repetitive logic

We notice that we are using the same logic in multiple components.

Complex logic

Our component are becoming too complex due to intricate state management / side effects

Abstraction

If we want to abstract away low level details to keep our components clean and focused on rendering.

We have multiple scenario to use custom hooks

Fetching data

if multiple components need to fetch data from API, we could encapsulate the fetching logic into a custom hook.

Form handling

If our application has many forms, a custom hooks can help manage form state, validation, and submission

Authentication state

A custom hook could manage user authentication status and provide it to components that need to know whether a user is logged in.

Pros of cutome hooks

Code reusability

The logic is encapsulated, so it is easy to reuse across different components.

Cleaner components

Components become more focused on rendering UI rather than managing complex logic

Consistency

By centralizing logic, we ensure that different parts of our application behave consistently