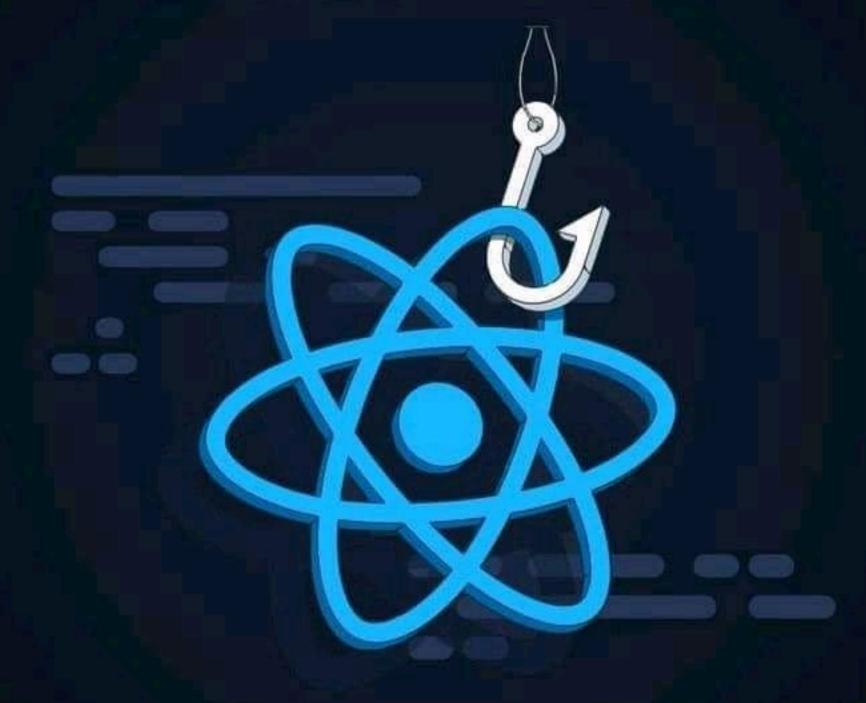


React Hooks



Cheat Sheet





State Management - use State()

DECLARE STATE

```
const [name, setName] = useState('initial value');
```

UPDATE STATE





Side Effects useEffect()

TRIGGERS CALLBACK FUNCTION ONLY ONCE WHEN COMPONENT IS MOUNTED

```
useEffect(() => {
    // Side effects - HTTP request, setTimeout, etc.
}, []);
```

TRIGGERS CALLBACK FUNCTION WHEN DEPENDENCY 'VALUE' IS CHANGED

```
useEffect(() => {
    // Side effects - HTTP request, setTimeout, etc.
}, [value]);
```

CLEANUP SIDEEFFECTS WHEN COMPONENT IS UNMOUNTED

```
useEffect(() => {
  let timeout = setTimeout(doSomething, 5000);
  return () => clearTimeout(timeout);
}, [value]);
```





Memoize a callback with useCallback()

RETURNS NEW FUNCTION ONLY WHEN DEPENDENCIES CHANGE

```
const handleClick = useCallback(() => {
  doSomethingWith(param1, param2)
}, [param1, param2])
```

MEMOIZE CALLBACK FOR A DYNAMIC LIST OF ELEMENTS



Memoize a value with useMemo()

WILL TRIGGER ONLY WHEN DEPENDENCIES CHANGE

```
const value = useMemo(() => {
    // evaluates only when param1 or param2 change
    return expensiveOperation(param1, param2)
}, [param1, param2])
```





Context api with useContext()

AVOID PROPS DRILLING USING CONTEXT API





Manage State with useReducer()

INITIALIZE A LOCAL STATE AND CREATE REDUCER

```
const initialState = {
  value : 0
}
const reducer = (state, action) => {
  switch (action.type) {
    case 'increment':
        return { ...state, value: state.value + 1 };
    case 'set_to':
        return { ...state, value: action.value };
    default:
        throw new Error('Unhandled action');
  }
};
```

CREATE LOCAL STATE AND DISPATCH ACTIONS

```
const [state, dispatch] = useReducer(reducer, initialState)
...
<button onClick={() => { dispatch({ type: 'increment' })}} />
<button onClick={() => { dispatch({ type: 'set_to',value: 42 })}} />
```





Create your own Custom Hook

CUSTOM HOOKS MUST START WITH use

```
const useApiResult = (param) => {
   const [result, setResult] = useState(null);
   useEffect(() => {
        // Your Task
   }, [param]);
   return { result };
};

// To use it in a component:
const { result } = useApiResult('some-param');
```

