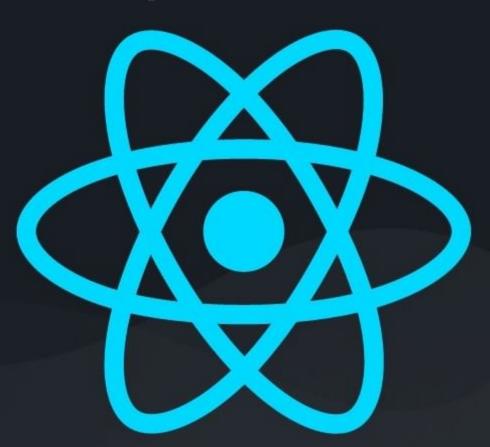
# HOCin React JS

Higher Order Components



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#### Whats Is HOC?

In React, a **Higher-Order Component** (**HOC**) is a function that takes a component as an input and returns a new enhanced component as output.

It's like a **special function** that can make your components more **powerful** and add **extra functionality** to them.

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```
const EnhancedComponent =
   withExtraFunctionality(OriginalComponent);

// Example
const IronMan = withSuit(TonyStark)
```

### **HOC Example**

Here, i am going to explain with the simple **counter** app components

if we require multiple counter component with useState Hook & onClick event handler function

we need to add useState & function in each component & it will make code lengthy or repeating same code again and again



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**Item1 Component** 



HOC

Item1 Cost: ₹10

Increase Cost

Item2 Cost: ₹10

**Increase Cost** 

**Item2 Component** 

```
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```

```
Without HOC
```

# Code Repeating

```
600
```

#### **HOC Function**

```
import React, { useState } from "react";
function UpdatedComponent(OriginalComponent)
{ function NewComponent() {
    const [cost, setCost] = useState(10);
    let costHandler = () \Rightarrow \{
      setCost(cost + 10);
    return (
      <OriginalComponent
        costHandler={costHandler}
        cost={cost}
                                HOC Function
  return NewComponent;
}
export default UpdatedComponent;
```

# In the example

Now, useState & event handler function **removed** from Item1 & Item2 component

and added functionality in HOC this returns a **enhanced component** with adding **additional functionality** to original component





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