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React Hooks - useState useEffect





HOOKS: A hook is a special function that lets you "hook into" React features.

Basically,

It allows you to use features of class based components in function based components.

For example:

useState is a hook that lets you add React state to function based components.



REACT functional component :

```
const Home = () => {
```

```
  let name = "mario";  //Understanding the problem
```

```
  const handleClick = () => {  
    name = "luigi";
```

```
  }
```

```
  return (
```

```
    <div>
```

```
      <h1>{name}</h1>
```

```
      <button onClick = { handleClick } > Click me
```

```
    </button>
```

```
  </div>
```

```
);
```

```
}
```

But this value
will not get
reflected here

handleClick function
will run
and value of name will
change to "luigi"

**REACT doesn't watch for changes,
when value does change it doesn't
trigger react to re-render the
template with new value .**



Solution : using useState hook

```
import {useState} from 'react';
```

```
const Home = ( ) => {
```

```
  const [name, setName] =useState("mario");
```

useState function
returns an array
with 2 elements

```
  const handleClick = ( ) => {  
    setName( "luigi" );  
  }
```

```
  return (  
    <div>  
      <h1>{name}</h1>  
      <button onClick = { handleClick } > Click me  
    </button>  
    </div>  
  );  
}
```



useEffect hook

useEffect hook lets you perform side effects in function components .

example of side effects are -
data fetching, manually changing dom in react component ...

useEffect runs a function at every render of the component.



```
const Home = ( ) => {
```

```
  const [name, setName] = useState("mario");
```

```
  useEffect ( ( ) => {  
    console.log("useEffect ran");  
  }, [name] );
```

 useEffect will run function if value of name changes
and after first render

```
  return (  
    <div>  
      <h1>{name}</h1>  
      <button onClick = { ( ) => setName('luigi') } > Change name  
    </button>  
    </div>  
  );  
}
```





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