

## Day 1 Session 3:

### Step 1: Creating an Independent Component with React Classes

In this step, you'll create an independent React component by extending the base React Component class. You'll create a new class, add methods, and use the render function to show data

React components are self-contained elements that you can reuse throughout a page. By making small, focused pieces of code, you can move and reuse pieces as your application grows. The key here is that they are self-contained and focused, allowing you to separate out code into logical pieces.

There are two types of custom component: class-based and functional. The first component you are going to make is a class-based component.

To start, create a new file. By convention, component files are capitalized

**P1**

```
import React, { Component } from 'react';

export class ProductImg extends Component {

  render() {
    return(
      <p>This is a Product Component.</p>
    )
  }
}
```

**P2**

```
import React, { Component } from 'react';
import ping from './p1.jpg'

export class ProductImg extends Component {

  render() {
    return(
      <>
        <img src={ping} alt="This is Product image"></img>
        <p>This is a Product Component.</p>
      </>
    )
  }
}
```

**App.js**

```

import React from 'react';
import React from 'react';
import './App.css';
import ProductImg from './ProductImg.js'

function App() {

  return(
    <div className="container">
      <h1>List of Products</h1>
      <ProductImg></ProductImg>
    </div>
  )
}

export default App;

```

P3

### ProductImg.js

```

import React, { Component } from 'react';

export class ProductImg extends Component {

  render() {
    return(
      <>
        <img alt='This' src={this.props.im} ></img>
        <p>This is a Product Component.</p>
      </>
    );
  }
}

export default ProductImg;

```

### Product.js

```

import React from 'react';
import './App.css';
import ProductImg from './ProductImg.js'
import ping from './p1.jpg'

```

```
function App() {

  return(
    <div className="container">
      <h1>List of Products</h1>
      <ProductImg im={pimg}></ProductImg>

    </div>
  )
}

export default App;
```

#### App.css

```
.productImg {
  display: flex;
  flex-direction: column;
  align-items: center;
}
.productImg img {
  width: 100px;
  height: 100px;
}
```

#### Product.js

```
import React from 'react';
import './App.css';
import ProductImg from './ProductImg.js'
import pimg from './p1.jpg'

function App() {

  return(
    <div className="container">
      <h1>List of Products</h1>
      <div className="productImg">
        <ProductImg im={pimg}></ProductImg>

      </div>
    </div>
  )
}
```

```
export default App;
```

### Adding one more component

```
import React from 'react';
import './App.css';
import ProductImg from './ProductImg.js'
import pimg from './p1.jpg'
import pimg2 from './p2.jpg'

function App() {

  return(
    <div className="container">
      <h1>List of Products</h1>
      <div className="productImg">
        <ProductImg im={pimg}></ProductImg>

      </div>
      <div className="productImg">
        <ProductImg im={pimg2}></ProductImg>

      </div>
    </div>
  )
}

export default App;
```

```
import React, { Component } from 'react';

export class ProductImg extends Component {

  render() {
    return(
      <>
        <img alt='This' src={this.props.im} ></img>
        <p>This is a Product Component.</p>
      </>
    );
  }
}
```

```
}  
export default ProductImg;
```

**Step 6:**

**Stateful component**

- 1) Rce – to generate component logic
- 2) Rcons- to generate constructor

```
import React, { Component } from 'react'  
  
export class Counter extends Component {  
  constructor(props) {  
    super(props)  
  
    this.state = {  
      count: 0  
    }  
  }  
  updateClick={()=>{  
    this.setState({count:this.state.count+1})  
  }}  
  render() {  
    const {count}=this.state;  
    return (  
      <div>  
        <button onClick={this.updateClick}>Visited {count} times</button>  
      </div>  
    )  
  }  
}  
  
export default Counter
```

```
import React from 'react';  
import './App.css';  
import ProductImg from './ProductImg.js'  
import pimg from './p1.jpg'  
import pimg2 from './p2.jpg'  
import Counter from './Counter'  
  
function App() {  
  
  return(  

```

```
<div className="container">
  <h1>List of Products</h1>
  <div className="productImg">
    <ProductImg im={ping}></ProductImg>

  </div>
  <div className="productImg">
    <ProductImg im={ping2}></ProductImg>

  </div>
  <div>
    <Counter></Counter>
  </div>
</div>
)
}
```