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## **React Js Basics**

• Single Line

```
import React from 'react';
const SingleLineComponent = () => Hello, world!;
export default SingleLineComponent;
```

Multiple Line

## **Functional Component**

```
import React from 'react';
const FunctionalComponent = () => {
 return (
  <div>
   <h1>Hello, world!</h1>
   This is a functional component.
  </div>
 );
};
export default FunctionalComponent;
import React from 'react';
import FunctionalComponent from './FunctionalComponent';
const App = () \Rightarrow \{
 return (
  <div>
   <h1>My React App</h1>
   < Functional Component />
```

```
</div>
 );
};
export default App;
Class Component
import React, { Component } from 'react';
class ClassComponent extends Component {
 render() {
  return (
   <div>
    <h1>Hello, world!</h1>
    This is a class component.
   </div>
  );
 }
export default ClassComponent;
import React from 'react';
import ClassComponent from './ClassComponent';
const App = () => \{
 return (
  <div>
   <h1>My React App</h1>
   <ClassComponent />
  </div>
 );
};
export default App;
Props
import React from 'react';
const Greeting = (props) => {
 return (
  <div>
   <h1>Hello, {props.name}!</h1>
   {props.message}
  </div>
 );
};
```

```
export default Greeting;
import React from 'react';
import Greeting from './Greeting';
const App = () \Rightarrow \{
 return (
  <div>
   <h1>My React App</h1>
   <Greeting name="John" message="Welcome to my app!" />
  </div>
 );
};
export default App;
State
import React, { useState } from 'react';
const Counter = () => {
 const [count, setCount] = useState(0);
 const increment = () => \{
  setCount(count + 1);
 };
 const decrement = () => {
  setCount(count - 1);
 };
 return (
  <div>
   <h1>Counter</h1>
   Count: {count}
   <button onClick={increment}>Increment</button>
   <button onClick={decrement}>Decrement</button>
  </div>
 );
};
export default Counter;
import React from 'react';
import Counter from './Counter';
const App = () \Rightarrow \{
 return (
  <div>
   <h1>My React App</h1>
```

```
<Counter />
  </div>
 );
};
export default App;
Prop Validation
import React from 'react';
import PropTypes from 'prop-types';
const Person = (props) => {
 return (
  <div>
   <h2>Name: {props.name}</h2>
   Age: {props.age}
  </div>
);
};
Person.propTypes = {
 name: PropTypes.string.isRequired,
 age: PropTypes.number.isRequired
};
export default Person;
import React from 'react';
import Person from './Person';
const App = () => \{
 return (
  <div>
   <h1>My React App</h1>
   <Person name="John" age={25} />
  </div>
);
};
```

export default App;