

ProductCard Component Using Props

Aim

To create a React ProductCard component that uses props to display product details dynamically.

Objectives

1. To understand the concept of props in React.
2. To learn how to pass data from parent to child components using props.
3. To implement a reusable ProductCard component using props.

Theory

In React, props (short for properties) are used to pass data from a parent component to a child component. They are read-only and help make components reusable and dynamic. By using props, a single component can display different data without rewriting the component's code.

Procedure

1. Create a new React project using create-react-app.
2. Define a ProductCard component that accepts props such as name, price, and image.
3. Use the props inside the component to display product details.
4. Import and use the ProductCard component in the App.js file by passing different props values.
5. Run the project to see the output.

Code

```
// ProductCard.js
import React from 'react';

const ProductCard = ({ name, price, image }) => {
  return (
    <div style={{border: '1px solid #ccc', borderRadius: '10px', padding: '10px', width: '200px', textAlign: 'center'}>
      <img src={image} alt={name} style={{width: '100%', borderRadius: '8px'}} />
      <h3>{name}</h3>
      <p>Price: ${price}</p>
    </div>
  )
}
```

```
};

};

export default ProductCard;

// App.js
import React from 'react';
import ProductCard from './ProductCard';

function App() {
  return (
    <div style={{display: 'flex', gap: '20px'}}>
      <ProductCard name="Laptop" price="1200" image="https://via.placeholder.com/150" />
      <ProductCard name="Smartphone" price="800" image="https://via.placeholder.com/150" />
      <ProductCard name="Headphones" price="150" image="https://via.placeholder.com/150" />
    </div>
  );
}

export default App;
```

Output

The output will display three Product Cards with product images, names, and prices displayed dynamically using props.

Learning Outcomes

1. Understood the concept of props in React.
2. Learned how to create reusable components using props.
3. Gained hands-on experience in implementing a ProductCard component in React.