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|  | **Course Name: Advanced Web Technology** | **EXPERIMENT NO. 7** | |
| **Course Code: 20CP314P**  **Faculty: Komal Singh** | **Branch: CSE** | **Semester: VI** |
| **Submitted by: Patel Vraj ChetanKumar**  **Roll no: 21BCP362** | | | |

Objective: Working with states in React

1. Create a counter based on react states using both the approaches class component as well as functional component.
2. In the commercial furniture web-application add a like button under each product in the products page using react states.

Note: Please include snapshots of all commands, terminal sessions, localhost outputs, and log files in your documentation with necessary steps.

Like Feature using useState hook with Functional Component

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| function ProductCard({ product }) {  const [likes, setLikes] = useState(0);  return (  <div className="product-card">  <img src={product.imageUrl} alt={product.name} />  <h3>{product.name}</h3>  <p>${product.price || 'Price not available'}</p>  <p>Color: {product.color || 'Color not specified'}</p>  <p>Manufacturer: {product.manufacturer || 'Manufacturer unknown'}</p>  <button onClick={() => setLikes(likes + 1)} className="like-button">Like</button>  <p>{likes} Likes</p>  </div>  );  } |
| .like-button {  background-color: #ff4081;  color: white;  border: none;  border-radius: 4px;  padding: 8px 16px;  margin-top: 8px;  cursor: pointer;  font-size: 1rem;  }  .like-button:hover {  background-color: #c60055;  } |

Like Feature using useState hook using Class Components

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| class ProductCard extends React.Component {  constructor(props) {  super(props);  this.state = { likes: 0 };  }  render() {  const { product } = this.props;  return (  <div className="product-card">  <img src={product.imageUrl} alt={product.name} />  <h3>{product.name}</h3>  <p>${product.price || 'Price not available'}</p>  <p>Color: {product.color || 'Color not specified'}</p>  <p>Manufacturer: {product.manufacturer || 'Manufacturer unknown'}</p>  <button onClick={() => this.setState({ likes: this.state.likes + 1 })} className="like-button">Like</button>  <p>{this.state.likes} Likes</p>  </div>  );  }  }  function Products() {  return (  <div className="container">  <h1>Our Products</h1>  <div className="product-grid">  {products.map(product => (  <ProductCard key={product.id} product={product} />  ))}  </div>  </div>  );  }  export default Products; |

