

Unit 6

BUILD SINGLE PAGE APPLICATION (Session: 5 AND 6)

Step 1: Inside your directory, execute the following command:

```
npx create-react-app shopping-cart
```

This will allow us to create the basic structure of a React app. Now let's get inside our new directory and run the project on a *localhost*:

```
cd shopping-cart
```

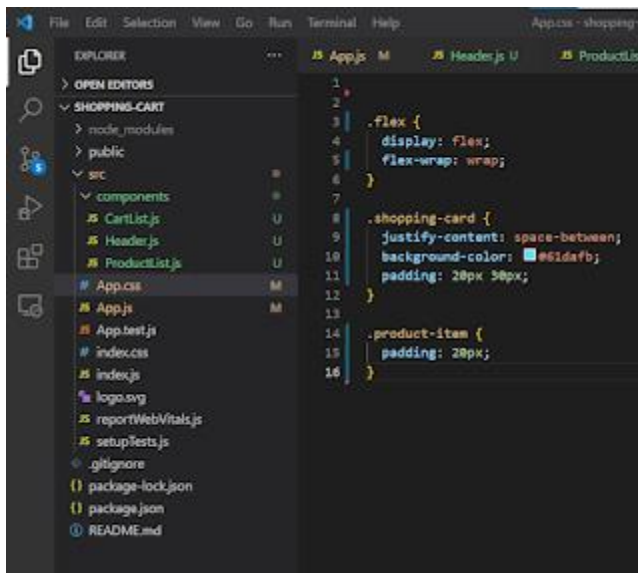
```
npm start
```

Note: Delete files App.css and index.css from project, also remove them from the index.js and App.js files.

Install react router by typing below command in terminal.

```
npm install react-router-dom
```

Step 2: Let's create a new folder called components, the folder structure should be containing three files in components folder as below :



Step 3: In App.js add the following code:

```
import './App.css';
```

```
import Header from './components/Header';
```

```
import ProductList from './components/ProductList';
```

```
import CartList from "../components/CartList";
import { useState } from "react";

function App() {
  const [product, setProduct] = useState([
    {
      url: "https://picsum.photos/id/21/3008/2008 ",
      name: "TRQ White Shoes",
      category: "Shoes",
      seller: "AMZ Seller Ghz",
      price: 1999,
    },
    {
      url: "https://5.imimg.com/data5/KC/PC/MY-38629861/dummy-chronograph-watch-500x500.jpg",
      name: "LOREM Watch Black",
      category: "Watches",
      seller: "Watch Ltd Siyana",
      price: 2599,
    },
    {
      url: "https://picsum.photos/id/180/2400/1600",
      name: "AMZ Laptop 8GB RAM",
      category: "Laptops",
      seller: "Delhi Laptops",
      price: 50000,
    },
    {
      url: "https://picsum.photos/id/111/4400/2656",
      name: "Old Car",
```

```
    category: "Car",
    seller: "Camron LTD",
    price: 40000,
  },
  {
    url: "https://picsum.photos/id/30/367/267",
    name: "Mug",
    category: "Mug",
    seller: "Mug Ltd",
    price: 20,
  },
  {
    url: "https://picsum.photos/id/152/367/267",
    name: "Colourful Flowers",
    category: "Flowers",
    seller: "ABS Ltd",
    price: 100,
  },
]);
```

```
const [cart, setCart] = useState([]);
const [showCart, setShowCart] = useState(false);

const addToCart = (data) => {
  setCart([...cart, { ...data, quantity: 1 }]);
};

const handleShow = (value) => {
  setShowCart(value);
};

return (
```

```
<div>
  <Header count={cart.length} handleShow={handleShow}></Header>
  {showCart ? (
    <CartList cart={cart}></CartList>
  ) : (
    <ProductList                                product={product}
      addToCart={addToCart}></ProductList>
    )}
</div>
);
}
export default App;
```

Step 4: In App.css add the following css :

```
.flex {
  display: flex;
  flex-wrap: wrap;
}
.shopping-card {
  justify-content: space-between;
  background-color: #61dafb;
  padding: 20px 30px;
}
.product-item {
  padding: 20px;
}
```

Step 5: In Header.js use the following code to show cart product count :

```
import '../App.css';
function Header(props) {
```

```

    return (
      <div className='flex shopping-card'>
        <div onClick={() => props.handleShow(false)} >Shopping Cart
App</div>
        <div onClick={() => props.handleShow(true)}> Cart
          <sup> {props.count} </sup>
        </div>
      </div>
    );
  }
  export default Header;

```

Step 6: In ProductList.js file loop over the array of objects that we get as a prop from the App component

```

import './App.css';
function ProductList({ product,addToCart }) {
  return (
    <div className='flex'>
      {
        product.map((productItem, productIndex) => {
          return (
            <div style={{ width: '33%' }}>
              <div className='product-item'>
                <img src={productItem.url} width="100%" />
                <p>{productItem.name} | {productItem.category} </p>
                <p> {productItem.seller} </p>
                <p> Rs. {productItem.price} /-</p>
                <button
                  onClick={() => addToCart(productItem)}
                >Add To Cart</button>

```

```

        </div>
      </div>
    )
  })
}
</div>
)
}
export default ProductList

```

Step 7: And finally in CartList.js :

```

import { useEffect, useState } from 'react';
import '../App.css';
function CartList({ cart }) {
  const [CART, setCART] = useState([])
  useEffect(() => {
    setCART(cart)
  }, [cart])
  return (
    <div>
      {
        CART?.map((cartItem, cartindex) => {
          return (
            <div>
              <img src={cartItem.url} width={40} />
              <span> {cartItem.name} </span>
              <button
                onClick={() => {
                  const _CART = CART.map((item, index) => {

```

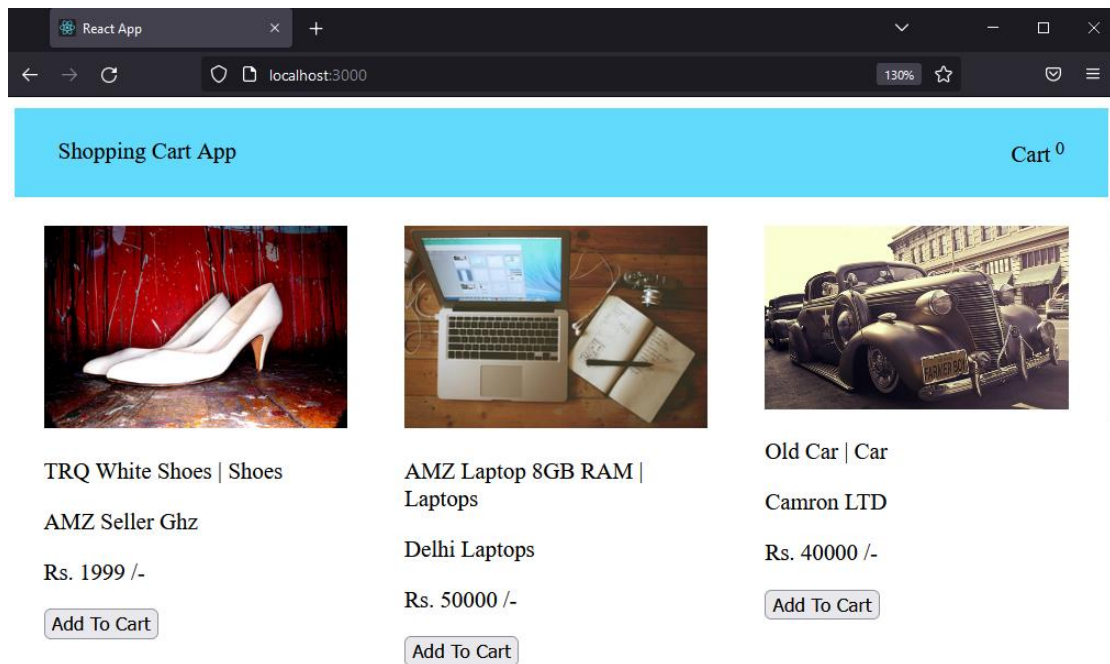
```

        return cartindex === index ? { ...item, quantity:
item.quantity > 0 ? item.quantity - 1 : 0 } : item
    })
    setCART(_CART)
  }}
  >-</button>
  <span> {cartItem.quantity} </span>
  <button
    onClick={() => {
      const _CART = CART.map((item, index) => {
        return cartindex === index ? { ...item, quantity:
item.quantity + 1 } : item
      })
      setCART(_CART)
    }}
  >+</button>
  <span> Rs. {cartItem.price * cartItem.quantity} </span>
</div>
)
})
}
<p> Total <span></span>
{
  CART.map(item => item.price * item.quantity).reduce((total,
value) => total + value, 0)
}
</p>
</div >
)
}

```

export default CartList

Output:



After adding itmes to cart and on clicking Cart on the navigation bar we get below output

