

Experiment-11:

Make a responsive web application for shopping cart using Bootstrap framework.

Aim

Develop a responsive shopping cart web application featuring product catalog, shopping cart summary, and checkout functionality for electronics products.

Description

The application showcases various electronic products, allowing users to add items to their cart and view a summary of selected products with the total price. The design uses HTML, CSS, Bootstrap for styling and layout, and JavaScript for cart functionality.

Tools

- **HTML5:** For structuring the pages.
- **Bootstrap:** For responsive design and styling.
- **JavaScript:** For handling cart operations (add to cart, calculate total).

Execution Steps

1. **Set up HTML and Bootstrap:** Include Bootstrap for styling, create navbar and container sections.
2. **Create Product Cards:** Use Bootstrap's card component to display product images, names, and prices.
3. **Add JavaScript for Cart Operations:** Implement addToCart and updateCart functions to handle item additions and total calculation.

Shoppingcart.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Shopping Cart - Electronics</title>
  <link rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">
</head>
<body>
<!-- Navbar -->
<nav class="navbar navbar-expand-lg navbar-light bg-light">
  <a class="navbar-brand" href="#">ElectroShop</a>
  <button class="navbar-toggler" type="button" data-toggle="collapse" data-
target="#navbarNav">
```

```

        <span class="navbar-toggler-icon"></span>
    </button>
    <div class="collapse navbar-collapse" id="navbarNav">
        <ul class="navbar-nav">
            <li class="nav-item active"><a class="nav-link" href="#">Home</a></li>
            <li class="nav-item"><a class="nav-link" href="#">Products</a></li>
            <li class="nav-item"><a class="nav-link" href="#">About</a></li>
            <li class="nav-item"><a class="nav-link" href="#">Contact</a></li>
        </ul>
    </div>
</nav>

<div class="container mt-5">
    <h1 class="text-center mb-4">Shopping Cart</h1>
    <h2 class="text-center mb-4">Featured Electronics</h2>

    <div class="row">
        <div class="col-md-9">
            <div class="row" id="product-list"></div>
        </div>

        <div class="col-md-3">
            <h2>Cart Summary</h2>
            <ul class="list-group" id="cart-items"></ul>
            <h4 class="mt-3">Total: <span id="total">₹0.00</span></h4>
            <button class="btn btn-success mt-3">Checkout</button>
        </div>
    </div>
</div>

<script src="https://code.jquery.com/jquery-3.5.1.slim.min.js"></script>
<script
src="https://cdn.jsdelivr.net/npm/@popperjs/core@2.5.2/dist/umd/popper.min.js"></script>
<script
src="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"></script>
<script>
    const products = [
        { id: 1, name: "Laptop", price: 74999, img: "https://cdn.thewirecutter.com/wp-content/media/2024/07/editing-laptop-2048px-233661.jpg?auto=webp&quality=75&width=1024" },
        { id: 2, name: "Smartphone", price: 49999, img: "https://kddi-h.assetsadobe3.com/is/image/content/dam/au-com/common/graph/app/pixel8a_set.jpg?scl=1" },
        { id: 3, name: "Tablet", price: 29999, img: "https://cdn.thewirecutter.com/wp-content/media/2024/06/besttablets-2048px-9875.jpg" },
        { id: 4, name: "Headphones", price: 6999, img: "https://images.philips.com/is/image/philipsconsumer/60a04af525fe4e7589acb0c90075d2d7?$pnglarge$&wid=1250" },
        { id: 5, name: "Smartwatch", price: 8999, img: "https://gourban.in/cdn/shop/files/WAve.png?v=1705564263&width=2048" },
    ],

```

```

    { id: 6, name: "Camera", price: 54999, img:
"https://images.herzindagi.info/image/2024/Jul/Camera-For-Photography-2.jpg" },
    { id: 7, name: "Bluetooth Speaker", price: 2999, img: "https://m.media-
amazon.com/images/I/41n8sieHmNL._SX300_SY300_QL70_FMwebp_.jpg" },
    { id: 8, name: "Monitor", price: 19999, img:
"https://media.takealot.com/covers_images/0603d1d13051459489fa3d2d20c2a83f/s-fb.file"
},
    { id: 9, name: "Gaming Console", price: 39999, img: "https://media-
ik.croma.com/prod/https://media.croma.com/image/upload/v1712137916/Croma%20Assets/
Gaming/Gaming%20Consoles/Images/305987_tlfvzh.png?tr=w-600" }
];

```

```

const productList = document.getElementById('product-list');
products.forEach(({ id, name, price, img }) => {
    productList.insertAdjacentHTML('beforeend', `
        <div class="col-md-4 mb-4">
            <div class="card" style="height: 400px;">
                
                <div class="card-body d-flex flex-column">
                    <h5 class="card-title">${name}</h5>
                    <p class="card-text">₹${price}</p>
                    <button class="btn btn-primary mt-auto" onclick="addToCart('${name}',
${price})">Add to Cart</button>
                </div>
            </div>
        </div>
    `);
});

```

```

let cart = [];
function addToCart(name, price) {
    cart.push({ name, price });
    updateCart();
}

function updateCart() {
    const cartItems = document.getElementById('cart-items');
    cartItems.innerHTML = cart.map(item => `<li class="list-group-item d-flex justify-
content-between">${item.name}<span>₹${item.price}</span></li>`).join("");
    const total = cart.reduce((sum, item) => sum + item.price, 0);
    document.getElementById('total').innerText = `₹${total}`;
}
</script>

</body>
</html>

```

OUTPUT:


Shopping Cart - Electronics

127.0.0.1:5500/cart.html#

[ElectroShop](#) [Home](#) [Products](#) [About](#) [Contact](#)

Shopping Cart


Featured Electronics



Laptop

₹74999


Add to Cart



Smartphone

₹49999


Add to Cart



Tablet


₹29999

Add to Cart




Headphones

₹6999



Smartwatch

₹8999



Camera

₹54999

Cart Summary

Tablet	₹29999
Smartphone	₹49999
Laptop	₹74999

Total: ₹154997

Checkout

Activate Windows

Go to Settings to activate Windows.