**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;">

<img src="${img}" class="card-img-top" alt="${name}" style="height: 200px; object-fit: contain;">

<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:**

