Project Title	Shopping Cart
Technologies	ReactJS
Domain	Industry
Project Level	Medium
Organization	iNeuron Intelligence Private Limited

Project Members:-

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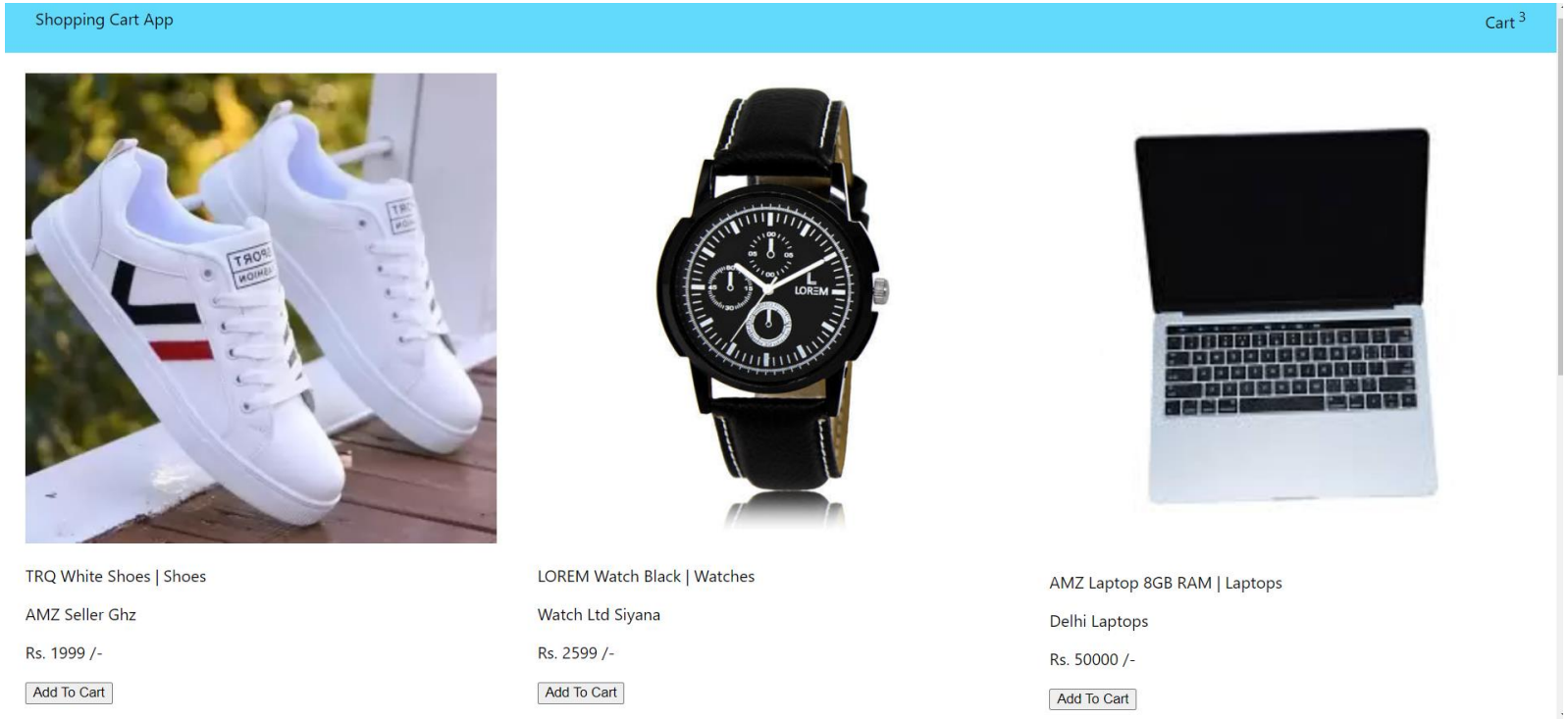
Problem Statement:

Create a simple frontend where there are a couple of products and upon clicking on add to cart button the item should be added to the cart and the user can see the items added to the cart on the cart page.



View Products

Add Products

Buy Products

Remove Product

High-level Document

The high-level design (HLD) for a simple shopping cart frontend would consist of the following components

User Interface

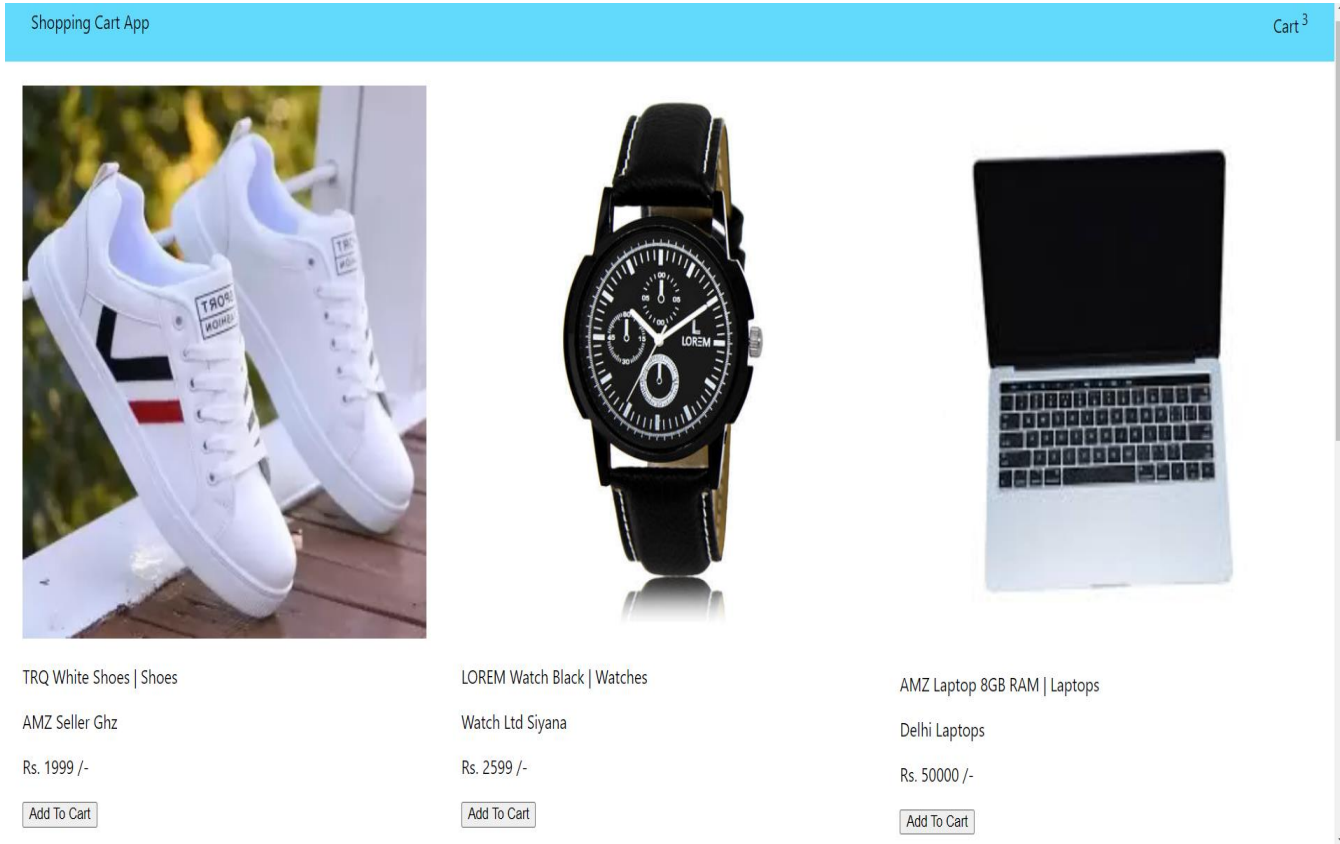
Product Listing Page

Cart Page

Cart Management

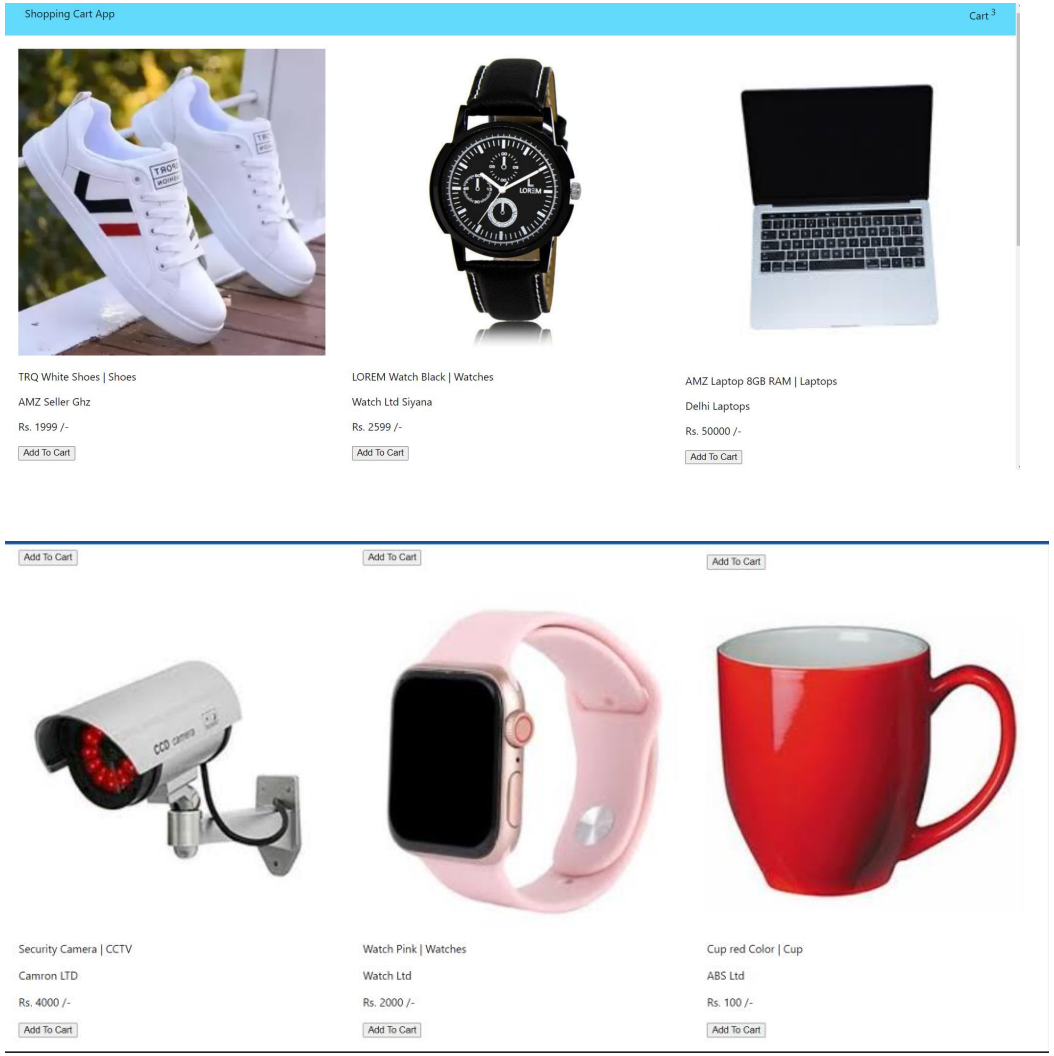
User Interface

- The frontend will consist of multiple pages: a product listing page, a cart page, and possibly additional pages for checkout and order confirmation.
- Each product will be displayed with its name, image, price, and an "Add to Cart" button.



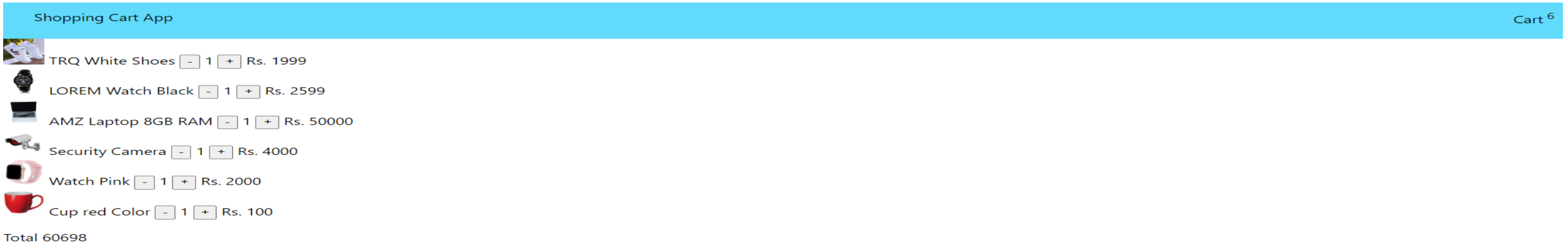
Product Listing Page

- This page will display the available products to the user.
- Each product will have an "Add to Cart" button, which the user can click to add the product to their cart.
- The user can navigate to the cart page by clicking on a link or button.



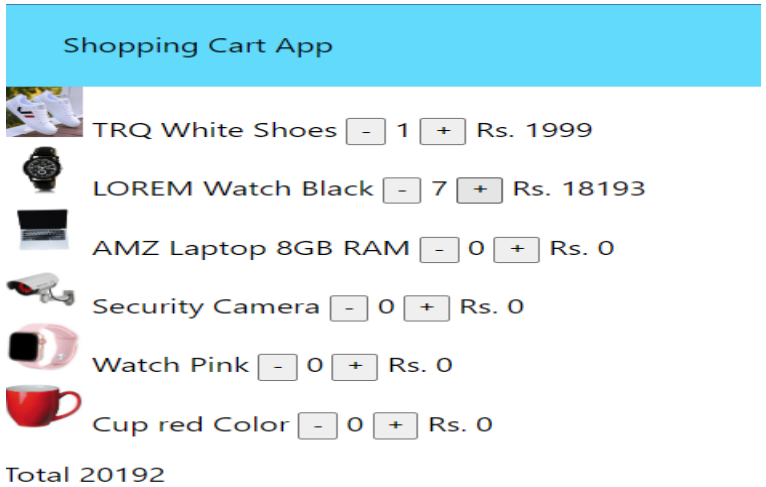
Cart Page:

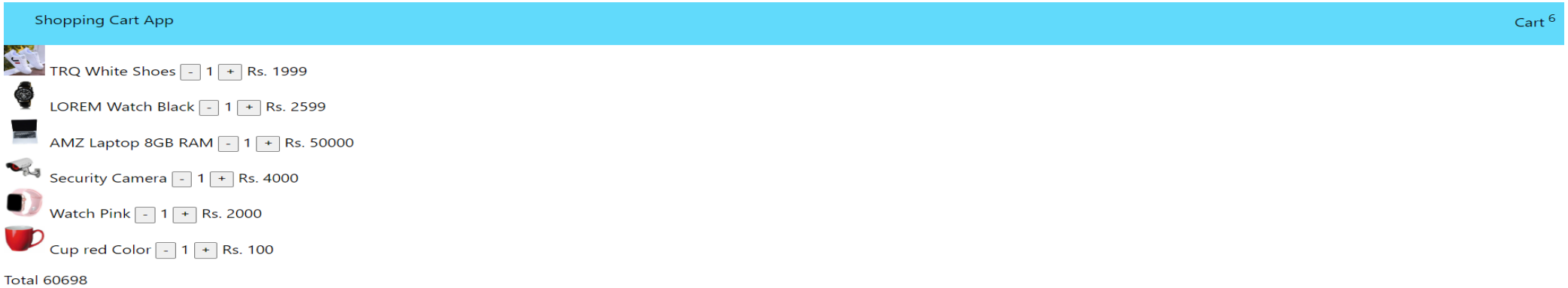
- This page will display the items added to the cart.
- The user can see the product name, quantity, price, and total cost for each item.
- The user can remove items from the cart, update the quantity, or proceed to checkout.



Cart Management

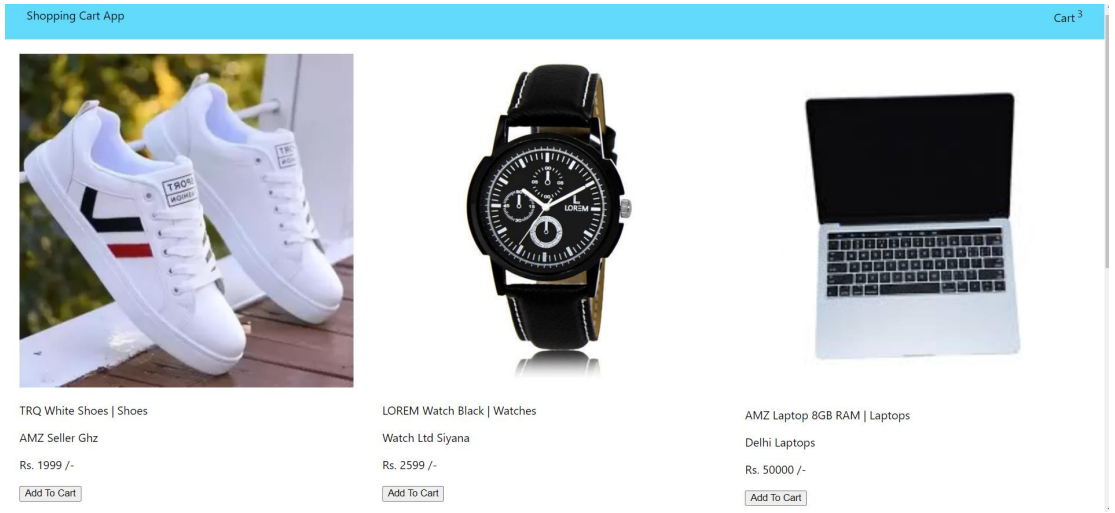
- The cart data can be stored in the browser's local storage or sent to the server for persistence.
- When the user adds an item to the cart, it should be stored in the cart data.
- The cart data can be updated when the user removes or updates the quantity of items.





Low-Level Design (LLD)

Product page: The product page would be implemented using HTML, CSS, and JavaScript. The HTML would be used to create the layout of the page, the CSS would be used to style the page, and the JavaScript would be used to add functionality to the page, such as adding products to the cart.



Low-Level Design (LLD)

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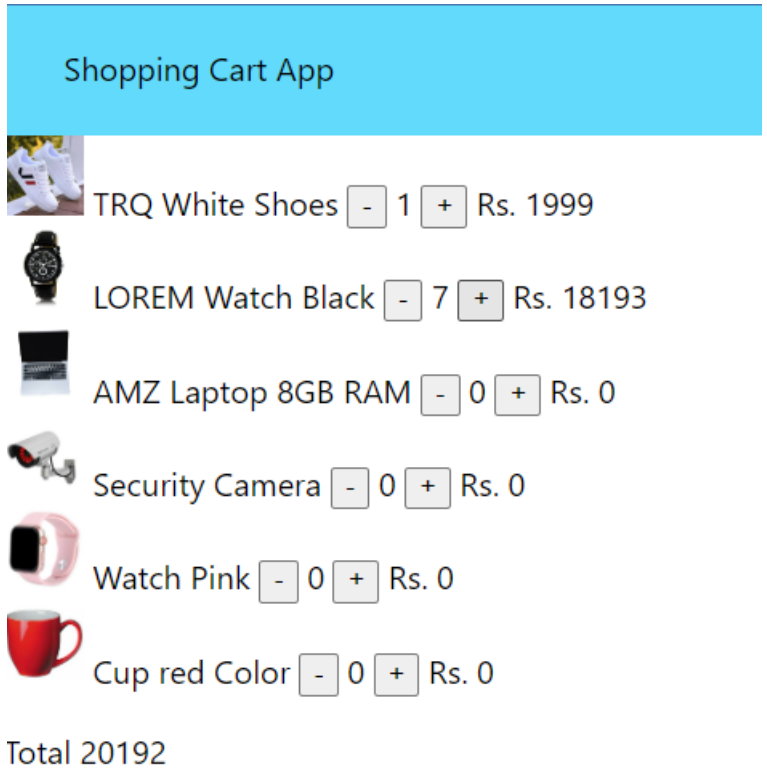
Cart Page:

- Retrieve the cart data from local storage or the server.
- Display the cart items, including their details and quantities.
- Add event listeners to the "Remove" buttons to handle the click event and remove the selected item from the cart.
- Add event listeners to the quantity input fields to handle changes in quantity and update the cart data accordingly.



Low-Level Design (LLD)

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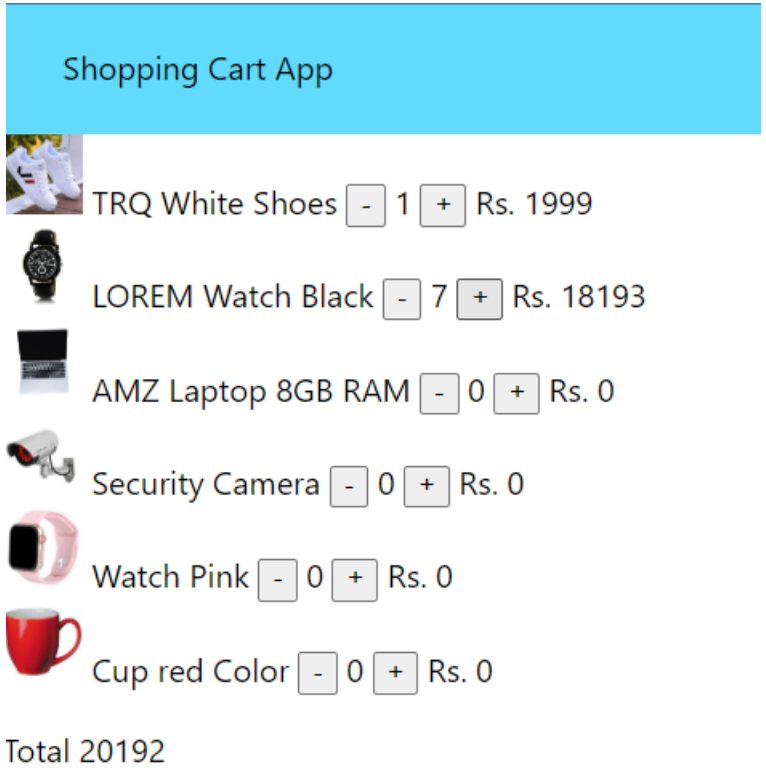
Cart Management:

- When the user clicks "Add to Cart," retrieve the product details and add them to the cart data.
- When the user removes an item, remove it from the cart data.
- When the user updates the quantity, update the cart data accordingly.
- Update the cart data in local storage or send it to the server for persistence.



Architecture

- Product Listing Page: Display a list of products with their details, including an "Add to Cart" button for each product.
- Cart Page: Show the items added to the cart, along with their details and a total cost.
- CSS: Apply styles to your HTML elements to enhance the visual appeal and layout of the pages. You can use CSS frameworks like Bootstrap or create your custom styles.
- JavaScript: Implement the functionality using JavaScript to handle user interactions and manage the cart.

Architecture

View Products

Add Products

Buy Products

Remove Product