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Lab Experiment:-6

HTML Code:-

<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

  <meta name="viewport" content="width=device-width, initial-scale=1.0">

  <title>Shopping Application</title>

</head>

<body>

  <h1>Shopping Cart</h1>

  <div>

    <input type="text" id="bookTitle" placeholder="Book Title">

    <input type="text" id="bookPrice" placeholder="Book Price">

    <button onclick="addBook()">Add Book</button>

  </div>

  <ul id="bookList">

    <!-- Book items will be added here -->

  </ul>

  <script>

    const bookList = document.getElementById('bookList');

    const bookTitleInput = document.getElementById('bookTitle');

    const bookPriceInput = document.getElementById('bookPrice');

    const books = [];

    function renderBooks() {

      bookList.innerHTML = '';

      books.forEach((book, index) => {

        const li = document.createElement('li');

        li.innerHTML = `

          <span>${book.title} - $${book.price}</span>

          <button onclick="updateBook(${index})">Update</button>

          <button onclick="deleteBook(${index})">Delete</button>

        `;

        bookList.appendChild(li);

      });

    }

    function addBook() {

      const title = bookTitleInput.value;

      const price = parseFloat(bookPriceInput.value);

      if (title && !isNaN(price)) {

        books.push({ title, price });

        renderBooks();

        bookTitleInput.value = '';

        bookPriceInput.value = '';

      }

    }

    function updateBook(index) {

      const newTitle = prompt('Enter new title:');

      const newPrice = parseFloat(prompt('Enter new price:'));

      if (newTitle && !isNaN(newPrice)) {

        books[index].title = newTitle;

        books[index].price = newPrice;

        renderBooks();

      }

    }

    function deleteBook(index) {

      books.splice(index, 1);

      renderBooks();

    }

  </script>

</body>

</html>

Explaination:

The HTML document sets up a basic structure for a shopping cart application.

1. Input fields are provided for entering a book's title and price, along with an "Add Book" button.
2. A list (**<ul>**) with the id **bookList** will display the added books.
3. JavaScript code is embedded in the **<script>** tag.
4. An array named **books** holds book objects with properties **title** and **price**.
5. The **renderBooks()** function updates the list of books displayed on the page.
6. The **addBook()** function adds a book to the **books** array and updates the display.
7. The **updateBook(index)** function allows editing a book's title and price.
8. The **deleteBook(index)** function removes a book from the **books** array and updates the display.
9. The dynamically generated HTML elements in the **renderBooks()** function show each book's details, along with "Update" and "Delete" buttons.
10. Inline event handlers (**onclick**) in buttons call the respective functions, passing the appropriate index.

Output:-

