NAME-ANKIT VERMA

ROLL.NO-22CS3009

LAB ASSIGNMENT
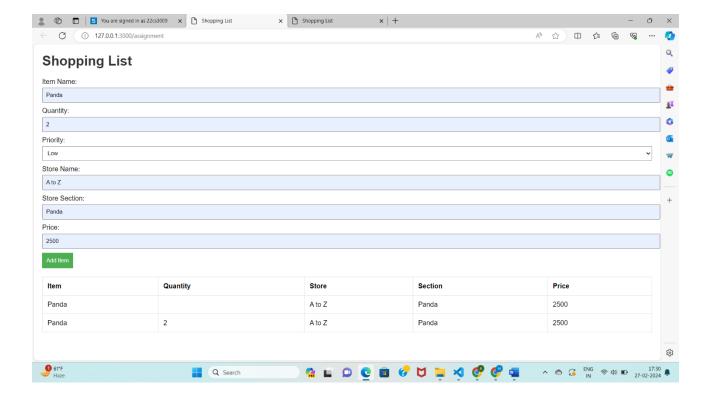
T1. Develop prototype 3 continuing with the last lab. Confirm that the app now remembers your list even after a page refresh.

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Shopping List</title>

    <style>
        body {
            font-family: Arial, sans-serif;
            margin: 20px;
        }

        h1 {
            color: #333;
        }

        form {
            margin-bottom: 20px;
        }

        label {
            display: block;
            margin-bottom: 5px;
        }

        input, select {
            margin-bottom: 10px;
            padding: 8px;
            width: 100%;
        }

        button {
            padding: 10px;
            background-color: #4CAF50;
```

```
                color: white;
                border: none;
                cursor: pointer;
            }

            table {
                width: 100%;
                border-collapse: collapse;
                margin-top: 20px;
            }

            th, td {
                border: 1px solid #ddd;
                padding: 12px;
                text-align: left;
            }
        </style>

</head>
<body>

    <h1>Shopping List</h1>

    <form id="itemForm">
        <label for="itemName">Item Name:</label>
        <input type="text" id="itemName" placeholder="Enter item name">

        <label for="itemQuantity">Quantity:</label>
        <input type="number" id="itemQuantity" placeholder="1" value="1">

        <label for="itemPriority">Priority:</label>
        <select id="itemPriority">
            <option value="low">Low</option>
            <option value="medium">Medium</option>
            <option value="high">High</option>
        </select>

        <label for="storeName">Store Name:</label>
        <input type="text" id="storeName" placeholder="Enter store name">

        <label for="storeSection">Store Section:</label>
        <input type="text" id="storeSection" placeholder="Enter store
section">

        <label for="itemPrice">Price:</label>
        <input type="number" id="itemPrice" placeholder="Enter price">

        <button type="button" onclick="addItem()">Add Item</button>
```

```html
        </form>

    <table id="itemList">
        <thead>
            <tr>
                <th>Item</th>
                <th>Quantity</th>
                <th>Store</th>
                <th>Section</th>
                <th>Price</th>
            </tr>
        </thead>
        <tbody>
            <!-- Table content will go here -->
        </tbody>
    </table>

    <script>
        function addItem() {
            var itemName = document.getElementById("itemName").value;
            var itemQuantity = document.getElementById("itemQuantity").value;
            var itemPriority = document.getElementById("itemPriority").value;
            var storeName = document.getElementById("storeName").value;
            var storeSection = document.getElementById("storeSection").value;
            var itemPrice = document.getElementById("itemPrice").value;

            saveItemToLocalStorage(itemName, itemQuantity, itemPriority,
storeName, storeSection, itemPrice);
            addRowToTable(itemName, itemQuantity, storeName, storeSection,
itemPrice);
        }

        function saveItemToLocalStorage(name, quantity, priority, store,
section, price) {
            var items = JSON.parse(localStorage.getItem('shoppingList')) ||
[];
            items.push({
                name: name,
                quantity: quantity,
                priority: priority,
                store: store,
                section: section,
                price: price
            });
            localStorage.setItem('shoppingList', JSON.stringify(items));
        }

        function addRowToTable(name, quantity, store, section, price) {
```

```
            var table =
document.getElementById("itemList").getElementsByTagName('tbody')[0];
            var newRow = table.insertRow(table.rows.length);
            var cell1 = newRow.insertCell(0);
            var cell2 = newRow.insertCell(1);
            var cell3 = newRow.insertCell(2);
            var cell4 = newRow.insertCell(3);
            var cell5 = newRow.insertCell(4);
            cell1.innerHTML = name;
            cell2.innerHTML = quantity;
            cell3.innerHTML = store;
            cell4.innerHTML = section;
            cell5.innerHTML = price;
        }

        window.onload = function () {
            var storedItems = JSON.parse(localStorage.getItem('shoppingList'))
|| [];
            for (var i = 0; i < storedItems.length; i++) {
                addRowToTable(storedItems[i].name, storedItems[i].quantity,
storedItems[i].store, storedItems[i].section, storedItems[i].price);
            }
        };
    </script>

</body>
</html>
```

T2. Create a local storage that saves the number of times you have accessed the page and displays it.

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Shopping List</title>

    <style>
        body {
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            margin: 20px;
        }

        h1 {
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        }

        form {
            margin-bottom: 20px;
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        label {
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            display: block;
            margin-bottom: 5px;
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        input, select {
            margin-bottom: 10px;
            padding: 8px;
            width: 100%;
        }

        button {
            padding: 10px;
            background-color: #4CAF50;
            color: white;
            border: none;
            cursor: pointer;
        }

        table {
            width: 100%;
            border-collapse: collapse;
            margin-top: 20px;
        }

        th, td {
            border: 1px solid #ddd;
            padding: 12px;
            text-align: left;
        }
    </style>

</head>
<body>

    <h1>Shopping List</h1>

    <form id="itemForm">
        <label for="itemName">Item Name:</label>
        <input type="text" id="itemName" placeholder="Enter item name">

        <label for="itemQuantity">Quantity:</label>
        <input type="number" id="itemQuantity" placeholder="1" value="1">

        <label for="itemPriority">Priority:</label>
        <select id="itemPriority">
            <option value="low">Low</option>
            <option value="medium">Medium</option>
            <option value="high">High</option>
```

```
        </select>

        <label for="storeName">Store Name:</label>
        <input type="text" id="storeName" placeholder="Enter store name">

        <label for="storeSection">Store Section:</label>
        <input type="text" id="storeSection" placeholder="Enter store
section">

        <label for="itemPrice">Price:</label>
        <input type="number" id="itemPrice" placeholder="Enter price">

        <button type="button" onclick="addItem()">Add Item</button>
    </form>

    <table id="itemList">
        <thead>
            <tr>
                <th>Item</th>
                <th>Quantity</th>
                <th>Store</th>
                <th>Section</th>
                <th>Price</th>
            </tr>
        </thead>
        <tbody>
            <!-- Table content will go here -->
        </tbody>
    </table>

    <p id="accessCounter">Number of times accessed: 0</p>

    <script>
        function addItem() {
            var itemName = document.getElementById("itemName").value;
            var itemQuantity = document.getElementById("itemQuantity").value;
            var itemPriority = document.getElementById("itemPriority").value;
            var storeName = document.getElementById("storeName").value;
            var storeSection = document.getElementById("storeSection").value;
            var itemPrice = document.getElementById("itemPrice").value;

            saveItemToLocalStorage(itemName, itemQuantity, itemPriority,
storeName, storeSection, itemPrice);
            addRowToTable(itemName, itemQuantity, storeName, storeSection,
itemPrice);
            updateAccessCounter();
        }
```

```javascript
        function saveItemToLocalStorage(name, quantity, priority, store,
section, price) {
            var items = JSON.parse(localStorage.getItem('shoppingList')) ||
[];
            items.push({
                name: name,
                quantity: quantity,
                priority: priority,
                store: store,
                section: section,
                price: price
            });
            localStorage.setItem('shoppingList', JSON.stringify(items));
        }

        function addRowToTable(name, quantity, store, section, price) {
            var table =
document.getElementById("itemList").getElementsByTagName('tbody')[0];
            var newRow = table.insertRow(table.rows.length);
            var cell1 = newRow.insertCell(0);
            var cell2 = newRow.insertCell(1);
            var cell3 = newRow.insertCell(2);
            var cell4 = newRow.insertCell(3);
            var cell5 = newRow.insertCell(4);
            cell1.innerHTML = name;
            cell2.innerHTML = quantity;
            cell3.innerHTML = store;
            cell4.innerHTML = section;
            cell5.innerHTML = price;
        }

        function updateAccessCounter() {
            var accessCount = localStorage.getItem('accessCount') || 0;
            accessCount++;
            localStorage.setItem('accessCount', accessCount);
            document.getElementById('accessCounter').innerText = 'Number of
times accessed: ' + accessCount;
        }

        window.onload = function () {
            var storedItems = JSON.parse(localStorage.getItem('shoppingList'))
|| [];
            for (var i = 0; i < storedItems.length; i++) {
                addRowToTable(storedItems[i].name, storedItems[i].quantity,
storedItems[i].store, storedItems[i].section, storedItems[i].price);
            }
            updateAccessCounter();
        };
```

```
    </script>

</body>
</html>
```