

LAB – 7

Web Tech



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Ques 1] Develop prototype 3 continuing with the last lab. Confirm that the app now remembers your list even after a page refresh.

Code]

```
<!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>
</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);
    }

```

```

        addToTable(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 addToTable(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++) {
            addToTable(storedItems[i].name,
storedItems[i].quantity, storedItems[i].store, storedItems[i].section,
storedItems[i].price);
        }
    };
</script>

```

```
</body>
</html>
```

Output]

Shopping List

Item Name:

Quantity:

Priority:

Store Name:

Store Section:

Price:

Item	Quantity	Store	Section	Price
Turtle Neck sweater	1	H&M	3	30

Ques 2] Create a local storage that saves the number of times you have accessed the page and displays it.

Code]

```
<!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 {
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```

        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>
</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();
    }

    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;
}

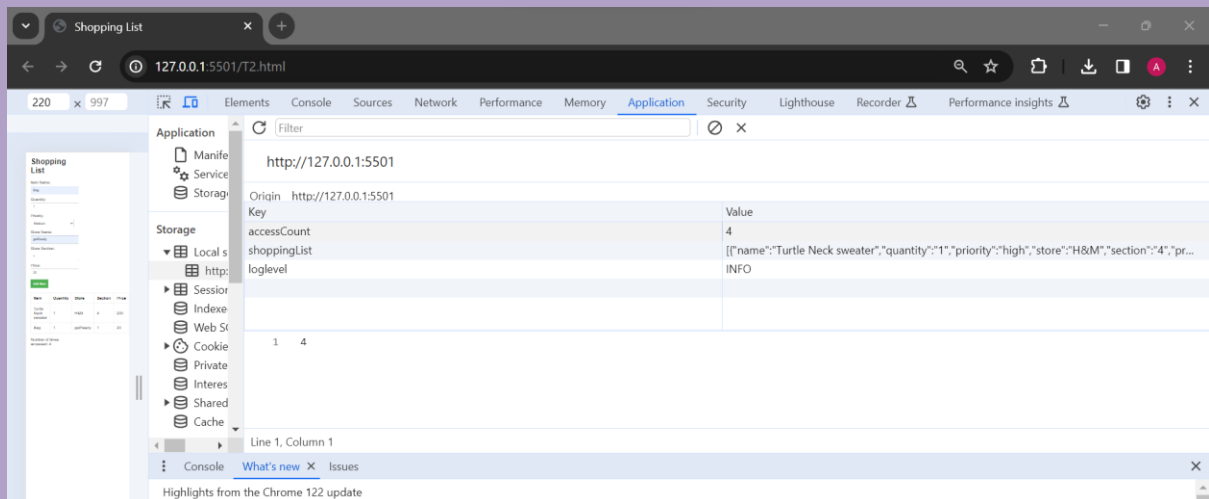
window.onload = function () {
    var storedItems =
JSON.parse(localStorage.getItem('shoppingList')) || [];
    for (var i = 0; i < storedItems.length; i++) {
        addRowToTable(storedItems[i].name,
storedItems[i].quantity, storedItems[i].store, storedItems[i].section,
storedItems[i].price);
    }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

</body>
</html>

```

Output]

Local Storage:



Shopping List

127.0.0.1:5501/T2.html

Shopping List

Item Name:

Bag

Quantity:

1

Priority:

Medium

Store Name:

getReady

Store Section:

1

Price:

20

Add Item

Item	Quantity	Store	Section	Price
Turtle Neck sweater	1	H&M	4	200
Bag	1	getReady	1	20

Number of times accessed: 4