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## LAB-7

### Web Technology

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

**ANS:**

```
<!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);
  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>
```

**Shopping List**

Item Name:  
Pen

Quantity:  
1

Priority:  
Low

Store Name:  
EXoo

Store Section:  
Sect

Price:  
20

Add Item

Item	Quantity	Store	Section	Price
bag	1	biscuiy	sdf	3232
Pen	1	EXoo	Sect	20

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

**ANS:**

```
<!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>

<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;
  }
</script>

```

```

var itemPrice = document.getElementById("itemPrice").value;

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

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

</body>
</html>

```

The screenshot shows a web browser window with a tab titled "Shopping List". The address bar shows the URL "127.0.0.1:5500/webLab.html". The page content includes a form with the following fields:

- Store Name:
- Store Section:
- Price:
- 

Below the form is a table with the following data:

Item	Quantity	Store	Section	Price
bag	1	biscuiy	sdf	3232
Pen	1	EXoo	Sect	20

Below the table, it says "Number of times accessed: 3".

The developer console is open, showing the "Storage" tab. It displays the following data:

- Local storage: http://127.0.0.1:5500
  - shoppingList: [{"name": "bag", "quantity": "1", "priority": "low", "store": "biscuiy", "section": "sdf", "price": "3232"}, {"name": "Pen", "quantity": "1", "priority": "low", "store": "EXoo", "section": "Sect", "price": "20"}]