

## Web-Tech Lab 07

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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.

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 List</title>
  <link rel="stylesheet" href="styles.css">
</head>
<body>
  <div class="container">
    <h1>Shopping List</h1>
    <input type="text" id="itemInput" placeholder="Add new item">
    <button onclick="addItem()">Add Item</button>
    <ul id="itemList"></ul>
  </div>

  <script src="script.js"></script>
</body>
</html>
```

CSS code:

```
.container {
  max-width: 600px;
  margin: 50px auto;
  padding: 0 20px;
}

h1 {
  text-align: center;
```

```
}  
input[type="text"] {  
  width: 70%;  
  padding: 8px;  
  margin-bottom: 10px;  
}  
  
button {  
  padding: 8px 15px;  
  background-color: #4CAF50;  
  color: white;  
  border: none;  
  cursor: pointer;  
}  
  
button:hover {  
  background-color: #45a049;  
}  
  
ul {  
  list-style-type: none;  
  padding: 0;  
}  
  
li {  
  margin-bottom: 5px;  
  padding: 8px;  
  background-color: #f2f2f2;  
  border-radius: 5px;  
}
```

#### Javascript Code:

script .js

```
// Function to add item to the list  
function addItem() {  
  var itemInput = document.getElementById('itemInput');
```

```
var itemValue = itemInput.value.trim();
if (itemValue !== '') {
  var itemList = document.getElementById('itemList'); var
listItem = document.createElement('li');
listItem.textContent = itemValue;
itemList.appendChild(listItem);
saveListToStorage(); // Save list to localStorage
itemInput.value = '';
} else {
  alert('Please enter a valid item!');
}
}

// Function to save the list to localStorage
function saveListToStorage() {
  var itemList = document.getElementById('itemList');
  var items = [];

  // Get all list items
  for (var i = 0; i < itemList.children.length; i++) {
items.push(itemList.children[i].textContent); }

  // Save items to localStorage
  localStorage.setItem('shoppingList', JSON.stringify(items)); }

// Function to load the list from localStorage
function loadListFromStorage() {
  var itemList = document.getElementById('itemList'); var
storedItems = localStorage.getItem('shoppingList');

  if (storedItems) {
    var items = JSON.parse(storedItems);

    // Add items to the list
    items.forEach(function(item) {
      var listItem = document.createElement('li');
listItem.textContent = item;
      itemList.appendChild(listItem);
    });
  }
}
```

```
}  
}  
  
// Load list from localStorage when the page loads  
window.addEventListener('load',  
loadListFromStorage);
```

### model.js

```
var shoppingListModel = {  
  items: [],  
  addItem: function(item) {  
    this.items.push(item);  
  }  
};
```

### controller.js

```
var shoppingListController = {  
  addItem: function() {  
    var itemInput = document.getElementById('itemInput'); var  
    itemValue = itemInput.value.trim();  
  
    if (itemValue !== '') {  
      shoppingListModel.addItem(itemValue);  
      itemInput.value = '';  
      shoppingListView.displayItems();  
    } else {  
      alert('Please enter a valid item!'); }  
  },  
  init: function() {  
    this.setupEventListeners();  
    shoppingListView.displayItems();  
  },  
  setupEventListeners: function() {  
    var addButton = document.querySelector('button');  
    addButton.addEventListener('click', this.addItem); var  
    itemInput = document.getElementById('itemInput');
```

```

itemInput.addEventListener('keypress', function(event) {
  if (event.key === 'Enter') {
    shoppingListController.addItem();
  }
});
}
};

```

```
shoppingListController.init();
```

### view.js

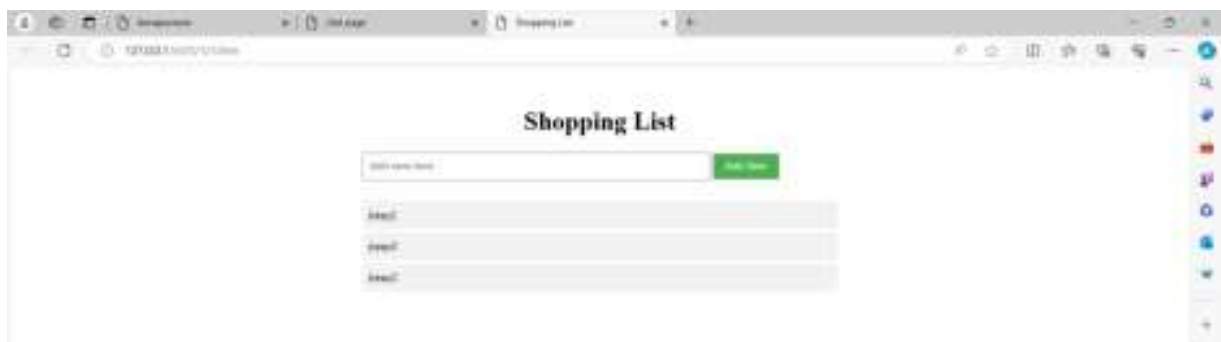
```

var shoppingListView = {
  displayItems: function() {
    var itemList = document.getElementById('itemList');
    itemList.innerHTML = '';

    shoppingListModel.items.forEach(function(item) {
      var listItem = document.createElement('li');
      listItem.textContent = item;
      itemList.appendChild(listItem);
    });
  }
};

```

### OUTPUT:-



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

### HTML code:-

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Page Access Counter</title>
  <link rel="stylesheet" href="styles.css">
</head>
<body>
  <h1>Page Access Counter</h1>
  <p>You have accessed this page <span id="accessCount"></span> times.</p>
  <button id="incrementButton">Increment Access Count</button> <script
src="script.js"></script>
</body>
</html>
```

### CSS Code:-

```
body {
  font-family: Arial, sans-serif;
  margin: 0;
  padding: 0;
  text-align: center;
}

h1 {
  margin-top: 50px;
}

p {
  font-size: 18px;
}
```

### Javascript Code:-

```
function updateAccessCount() {
  if (typeof(Storage) !== "undefined") {
    if (localStorage.pageAccessCount) {
      localStorage.pageAccessCount =
```

```
Number(localStorage.pageAccessCount) + 1;
} else {
  localStorage.pageAccessCount = 1;
}
document.getElementById("accessCount").innerText =
localStorage.pageAccessCount;
} else {
  document.getElementById("accessCount").innerText = "Sorry, your
browser does not support web storage...";
}
}

function initializeAccessCount() {
  if (typeof(Storage) !== "undefined") {
    if (!localStorage.pageAccessCount) {
      localStorage.pageAccessCount = 0;
    }
    document.getElementById("accessCount").innerText =
localStorage.pageAccessCount;
  } else {
    document.getElementById("accessCount").innerText = "Sorry, your
browser does not support web storage...";
  }
}

window.onload = initializeAccessCount;

document.getElementById("incrementButton").addEventListener("click",
updateAccessCount);
```

OUTPUT:-

