Web Technology

Lab Assignment 7

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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

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>
       </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++) {</pre>
        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

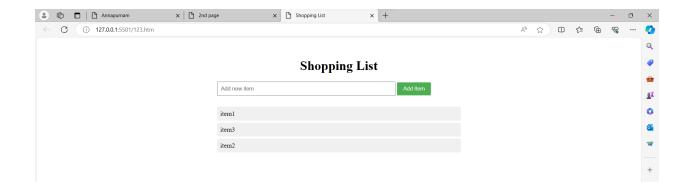
```
var shoppingListController = {
   addItem: function() {
     var itemInput = document.getElementById('itemInput');
     var itemValue = itemInput.value.trim();

     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

OUTPUT:-



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

HTML code:-

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:-

