Web Technology Lab - 7

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Q1)

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">
   </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 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();
       itemInput.value = '';
    } else {
       alert('Please enter a valid item!');
function saveListToStorage() {
   var itemList = document.getElementById('itemList');
   var items = [];
   for (var i = 0; i < itemList.children.length; i++) {</pre>
        items.push(itemList.children[i].textContent);
   localStorage.setItem('shoppingList', JSON.stringify(items));
function loadListFromStorage() {
   var itemList = document.getElementById('itemList');
   var storedItems = localStorage.getItem('shoppingList');
   if (storedItems) {
       var items = JSON.parse(storedItems);
        items.forEach(function(item) {
            var listItem = document.createElement('li');
            listItem.textContent = item;
```

```
itemList.appendChild(listItem);
});
}
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);
```

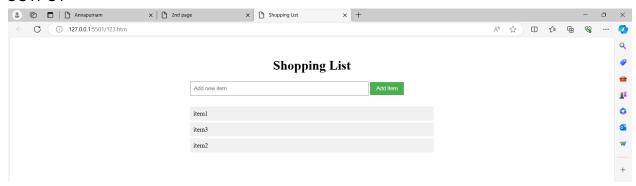
```
var itemInput = document.getElementById('itemInput');
itemInput.addEventListener('keypress', function(event) {
      if (event.key === 'Enter') {
          shoppingListController.addItem();
      }
    });
shoppingListController.init();
```

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



Q2) Create 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:-

