

PRINCE KUMAR
22MC3039
LAB-07 (WEBD)

**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

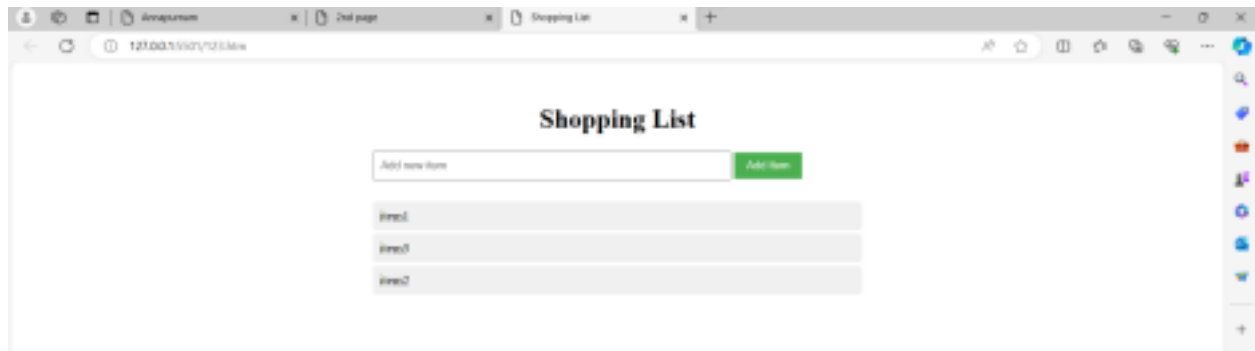
```

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:-



HTML Code:

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  <meta charset="UTF-8">  
  <meta name="viewport" content="width=device-width, initial-scale=1.0">  
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<body>  
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    <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>  
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CSS code:

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.container {  
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```



```
        margin: 50px auto;
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        listItem.textContent = itemValue;
        itemList.appendChild(listItem);
        saveListToStorage(); // Save list to localStorage
        itemInput.value = '';
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// Function to save the list to localStorage
function saveListToStorage() {
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    // Get all list items
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    }

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    localStorage.setItem('shoppingList', JSON.stringify(items));
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// Function to load the list from localStorage
function loadListFromStorage() {
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```

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: [],
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        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

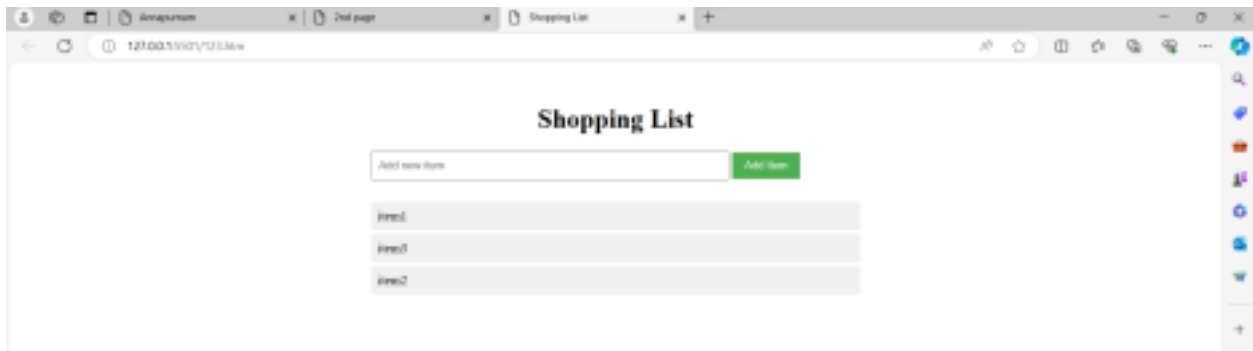
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var shoppingListView = {
    displayItems: function() {
        var itemList = document.getElementById('itemList');
        itemList.innerHTML = '';

        shoppingListModel.items.forEach(function(item) {
            var listItem = document.createElement('li');
            listItem.textContent = item;
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OUTPUT:-



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    document.getElementById("accessCount").innerText =
localStorage.pageAccessCount;
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    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:-

