**Web-Tech Lab 07**

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1. 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;

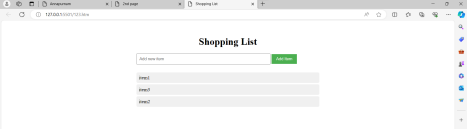
itemList.appendChild(listItem);

});

}

};

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:-

