**Web Technology**

**22IT3025**

**Naresh Kumar**

**Lab - 6**

T1 : Develop a single page application for Shopping List. First develop a simple prototype using html and javascript.

<!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>

<style>

body {

font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;

margin: 20px;

background-color: #f4f4f4;

color: #333;

}

#shopping-list {

max-width: 800px;

margin: 0 auto;

background-color: #fff;

padding: 20px;

border-radius: 8px;

box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);

}

h1 {

text-align: center;

color: #4285f4;

}

#item-type, #item-dropdown {

margin-bottom: 10px;

width: 100%;

padding: 8px;

box-sizing: border-box;

border: 1px solid #ccc;

border-radius: 4px;

}

#quantity {

margin-bottom: 10px;

width: 70%;

padding: 8px;

box-sizing: border-box;

border: 1px solid #ccc;

border-radius: 4px;

}

button {

padding: 8px 12px;

background-color: #4285f4;

color: #fff;

border: none;

border-radius: 4px;

cursor: pointer;

}

button:hover {

background-color: #357ae8;

}

.table-container {

display: flex;

justify-content: space-between;

align-items: flex-start;

margin-top: 20px;

}

.table-container div {

width: 48%;

}

h2 {

color: #4285f4;

}

ul {

list-style-type: none;

padding: 0;

margin: 0;

}

li {

margin-bottom: 5px;

display: flex;

align-items: center;

}

label {

margin-right: 10px;

}

table {

width: 100%;

margin-top: 10px;

border-collapse: collapse;

}

th, td {

border: 1px solid #ddd;

padding: 8px;

text-align: left;

}

th {

background-color: #f2f2f2;

}

.purchased-item {

text-decoration: line-through;

}

#grand-total {

margin-top: 10px;

font-weight: bold;

color: #4285f4;

}

</style>

</head>

<body>

<div id="shopping-list">

<h1>Shopping List</h1>

<div>

<label for="item-type">Select Item Type:</label>

<select id="item-type">

<option value="grocery">Grocery</option>

<option value="clothing">Clothing</option>

<option value="electronics">Electronics</option>

</select>

</div>

<div>

<label for="item-dropdown">Select Item:</label>

<select id="item-dropdown"></select>

<input type="number" id="quantity" placeholder="Quantity" min="1" value="1">

<button onclick="addItem()">Add Item</button>

</div>

<div class="table-container">

<div>

<h2>Items To Buy</h2>

<table id="items-to-buy-table">

<thead>

<tr>

<th>Item</th>

<th>Item Type</th>

<th>Quantity</th>

<th>Price (Rs.)</th>

<th>Mark as Purchased</th>

</tr>

</thead>

<tbody id="items-list"></tbody>

</table>

<div id="grand-total"></div>

</div>

<div>

<h2>Purchased Items</h2>

<table id="purchased-items-table">

<thead>

<tr>

<th>Item</th>

<th>Item Type</th>

<th>Quantity</th>

<th>Price (Rs.)</th>

<th>Remove</th>

</tr>

</thead>

<tbody id="purchased-items-list"></tbody>

</table>

</div>

</div>

</div>

<script>

const predefinedItems = {

grocery: [

{ name: "Bread", price: 150.00 },

{ name: "Milk", price: 80.00 },

{ name: "Eggs", price: 60.00 }

],

clothing: [

{ name: "T-shirt", price: 750.00 },

{ name: "Jeans", price: 1200.00 },

{ name: "Socks", price: 99.00 }

],

electronics: [

{ name: "Laptop", price: 35000.00 },

{ name: "Headphones", price: 1299.00 },

{ name: "Charger", price: 899.00 }

]

};

const itemTypeSelect = document.getElementById('item-type');

const itemDropdown = document.getElementById('item-dropdown');

itemTypeSelect.addEventListener('change', updateItemDropdown);

updateItemDropdown();

function updateItemDropdown() {

const selectedItemType = itemTypeSelect.value;

const items = predefinedItems[selectedItemType];

itemDropdown.innerHTML = '';

items.forEach(item => {

const option = document.createElement('option');

option.value = item.name;

option.textContent = item.name;

itemDropdown.appendChild(option);

});

}

function addItem() {

const selectedItemType = itemTypeSelect.value;

const selectedItemName = itemDropdown.value;

const quantity = parseInt(document.getElementById('quantity').value, 10);

if (!isNaN(quantity) && quantity > 0) {

const itemPrice = getItemPrice(selectedItemType, selectedItemName);

const totalPrice = quantity \* itemPrice;

const itemsList = document.getElementById('items-list');

const row = itemsList.insertRow();

const cell1 = row.insertCell(0);

const cell2 = row.insertCell(1);

const cell3 = row.insertCell(2);

const cell4 = row.insertCell(3);

const cell5 = row.insertCell(4);

cell1.textContent = selectedItemName;

cell2.textContent = selectedItemType;

cell3.textContent = quantity;

cell4.textContent = itemPrice.toFixed(2);

const checkbox = document.createElement('input');

checkbox.type = 'checkbox';

checkbox.addEventListener('change', function () {

markAsPurchased(checkbox, selectedItemName, selectedItemType, itemPrice, quantity);

});

cell5.appendChild(checkbox);

document.getElementById('quantity').value = '';

updateGrandTotal();

}

}

function markAsPurchased(checkbox, itemName, itemType, itemPrice, quantity) {

const row = checkbox.parentElement.parentElement;

if (checkbox.checked) {

row.classList.add('purchased-item');

addToPurchasedItems(itemName, itemType, itemPrice, quantity);

row.remove();

} else {

row.classList.remove('purchased-item');

}

updateGrandTotal();

}

function addToPurchasedItems(itemName, itemType, itemPrice, quantity) {

const purchasedItemsList = document.getElementById('purchased-items-list');

const row = purchasedItemsList.insertRow();

const cell1 = row.insertCell(0);

const cell2 = row.insertCell(1);

const cell3 = row.insertCell(2);

const cell4 = row.insertCell(3);

const cell5 = row.insertCell(4);

cell1.textContent = itemName;

cell2.textContent = itemType;

cell3.textContent = quantity;

cell4.textContent = (itemPrice \* quantity).toFixed(2);

const removeButton = document.createElement('button');

removeButton.textContent = 'Remove';

removeButton.addEventListener('click', function () {

removePurchasedItem(row);

});

cell5.appendChild(removeButton);

}

function removePurchasedItem(row) {

row.remove();

updateGrandTotal();

}

function updateGrandTotal() {

const itemsList = document.getElementById('items-list');

const grandTotalDiv = document.getElementById('grand-total');

let grandTotal = 0;

for (let i = 0; i < itemsList.rows.length; i++) {

grandTotal += parseFloat(itemsList.rows[i].cells[3].textContent);

}

grandTotalDiv.textContent = `Grand Total: Rs. ${grandTotal.toFixed(2)}`;

}

function getItemPrice(itemType, itemName) {

const items = predefinedItems[itemType];

const selectedItem = items.find(item => item.name === itemName);

return selectedItem ? selectedItem.price : 0;

}

</script>

</body>

</html>

OUTPUT

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated