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Lab Assignment – VI

WEB TECHNOLOGY

T1. Single page application for shopping list.

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Mittal Store</title>
    <link rel="stylesheet" href="style.css">
</head>
<body>
    <div class="container">
        <h1>MITTAL SHOPPING CENTRE</h1>
        <div class="form-container">
            <div class="form-group">
                <label for="itemName">Item Name</label>
                <input type="text" id="itemName" class="form-control"
placeholder="Enter item...">
            </div>
            <div class="form-group">
                <label for="quantity">Quantity</label>
                <input type="number" id="quantity" class="form-control"
value="1">
            </div>
            <div class="form-group">
                <label for="priority">Priority</label>
                <select id="priority" class="form-control">
                    <option value="low">Low</option>
                    <option value="medium">Medium</option>
                    <option value="high">High</option>
                </select>
            </div>
            <div class="form-group">
                <label for="store">Store</label>
                <select id="store" class="form-control">
                </select>
            </div>
            <div class="form-group">
```

```html
            <label for="section">Section</label>
            <select id="section" class="form-control">
            </select>
        </div>
        <div class="form-group">
            <label for="price">Price</label>
            <input type="number" id="price" class="form-control"
step="0.01" placeholder="Enter price...">
        </div>
        <button id="addItemBtn" class="btn btn-primary">Add Item</button>
    </div>
    <div class="shopping-list">
        <h2>Shopping List</h2>
        <table id="shoppingListTable" class="table">
            <thead>
                <tr>
                    <th>#</th>
                    <th>Item</th>
                    <th>Quantity</th>
                    <th>Priority</th>
                    <th>Store</th>
                    <th>Section</th>
                    <th>Price</th>
                </tr>
            </thead>
            <tbody id="shoppingList"></tbody>
        </table>
    </div>
</div>
<script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>
<script src="script.js"></script>
</body>
</html>
```

style.css

```css
.container {
    max-width: 800px;
    margin: 50px auto;
    padding: 20px;
    background-color: #dbffe5;
    border-radius: 8px;
    box-shadow: 0 2px 4px rgba(0, 0, 0, 0.1);
}

h1 {
    text-align: center;
}
```

```css
.form-container {
    margin-bottom: 20px;
}

.form-group {
    margin-bottom: 15px;
}

.shopping-list {
    margin-top: 30px;
}

.shopping-list h2 {
    margin-bottom: 15px;
}

table {
    width: 100%;
    border-collapse: collapse;
}

th, td {
    padding: 8px;
    text-align: left;
}

table, th, td {
    border: 1px solid #000000;
}

th {
    background-color: #ff6767;
}

tr:nth-child(even) {
    background-color: #bebebe;
}

input[type="checkbox"] {
    margin: 0;
}

th, td {
    padding: 12px;
    border: black;
}
```

script.js

```javascript
const stores = ['BigBazar', 'Amazon', 'Flipkart', 'Snapdeal', 'JioMart'];
const sections = ['Electronics', 'Electricals', 'Home and Decor', 'Pharmacy',
'Sports and Fitness', 'Groceries', 'Household', 'Personal Care'];

$(document).ready(function () {
    populateSelect('store', stores);
    populateSelect('section', sections);

    $('#addItemBtn').click(function() {
        addItem();
    });
});

function populateSelect(selectId, options) {
    let select = $('#' + selectId);
    select.empty();
    $.each(options, function(index, value) {
        select.append($('<option>', {
            value: value,
            text: value
        }));
    });
}

function addItem() {
    let itemName = $('#itemName').val();
    let quantity = $('#quantity').val();
    let priority = $('#priority').val();
    let store = $('#store').val();
    let section = $('#section').val();
    let price = $('#price').val();

    if (itemName && quantity && price) {
        let newRow = `
            <tr>
                <td><input type="checkbox" class="form-control"></td>
                <td>${itemName}</td>
                <td>${quantity}</td>
                <td>${priority}</td>
                <td>${store}</td>
                <td>${section}</td>
                <td>${price}</td>
            </tr>`;
        $('#shoppingList').append(newRow);
```
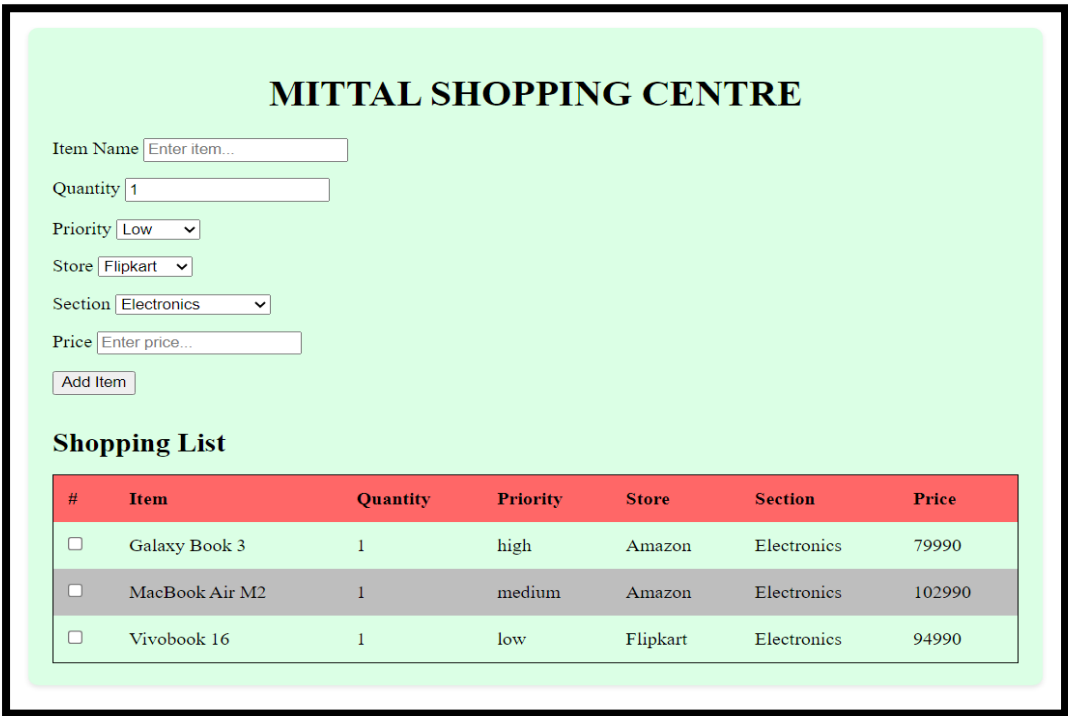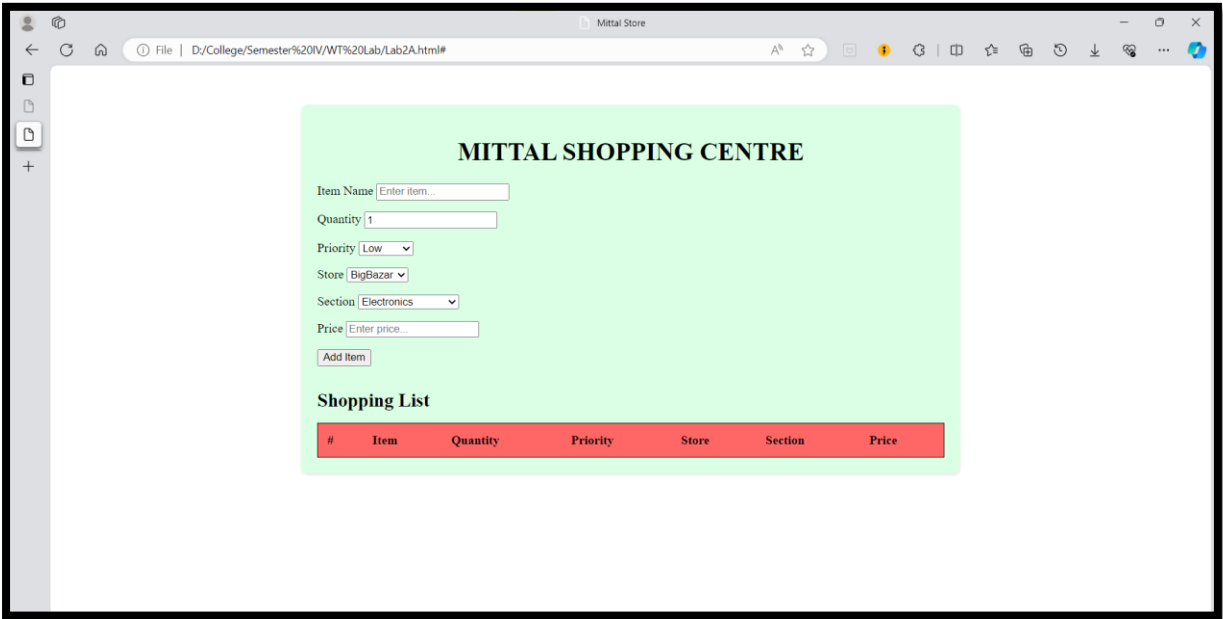
```
        $('#itemName').val('');
        $('#quantity').val('1');
        $('#priority').val('low');
        $('#price').val('');
    } else {
        alert('Please fill out all required fields.');
    }
}
```

MVC Based Implementation

```javascript
let shoppingList = [];

function addItemToShoppingList(item) {
    shoppingList.push(item);
}

function getShoppingList() {
    return shoppingList;
}
```

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Smart Shopping List</title>
    <link rel="stylesheet" href="styles.css">
</head>
<body>
    <!-- Same HTML structure as before -->
</body>
</html>
```

```javascript
    $(document).ready(function () {
    populateSelect('store', stores);
     populateSelect('section', sections);

    $('#addItemBtn').click(function() {
        addItem();
    });
});

function addItem() {
    let itemName = $('#itemName').val();
    let quantity = $('#quantity').val();
    let priority = $('#priority').val();
    let store = $('#store').val();
    let section = $('#section').val();
    let price = $('#price').val();

    if (itemName && quantity && price) {
        let item = {
            itemName: itemName,
            quantity: quantity,
            priority: priority,
```

```javascript
            store: store,
            section: section,
            price: price
        };
        addItemToShoppingList(item);
        displayShoppingList();
        clearInputFields();
    } else {
        alert('Please fill out all required fields.');
    }
}

function displayShoppingList() {
    let shoppingList = getShoppingList();
    let tableBody = $('#shoppingList');
    tableBody.empty();
    $.each(shoppingList, function(index, item) {
        let newRow = `
            <tr>
                <td><input type="checkbox" class="form-control"></td>
                <td>${item.itemName}</td>
                <td>${item.quantity}</td>
                <td>${item.priority}</td>
                <td>${item.store}</td>
                <td>${item.section}</td>
                <td>${item.price}</td>
            </tr>`;
        tableBody.append(newRow);
    });
}

function clearInputFields() {
    $('#itemName').val('');
    $('#quantity').val('1');
    $('#priority').val('low');
    $('#price').val('');
}
```