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22CS3002
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Web Technology Lab - 6

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

Sol:

```html
<!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>
        <div class="input-section">
            <input type="text" id="itemInput" placeholder="Add an item">
            <button onclick="addItem()">Add</button>
        </div>
        <ul id="shoppingList"></ul>
    </div>

    <script src="script.js"></script>
</body>
</html>
```

```css
body {
    font-family: 'Arial', sans-serif;
    margin: 0;
    padding: 0;
    background-color: #f0f0f0;
}

.container {
    max-width: 600px;
    margin: 50px 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: #333;
}

.input-section {
    display: flex;
    margin-bottom: 20px;
}

input {
    flex-grow: 1;
    padding: 8px;
}

button {
    padding: 8px 16px;
    background-color: #4caf50;
    color: #fff;
    border: none;
    cursor: pointer;
}

button:hover {
    background-color: #45a049;
}
```

```css
button:hover {
    background-color: ◾#45a049;
}

ul {
    list-style-type: none;
    padding: 0;
}

li {
    display: flex;
    justify-content: space-between;
    align-items: center;
    border-bottom: 1px solid ◾#ddd;
    padding: 10px 0;
}

li:last-child {
    border-bottom: none;
}
```

```javascript
let shoppingItems = [];
function renderShoppingList() {
    const shoppingList = document.getElementById('shoppingList');
    shoppingList.innerHTML = '';

    shoppingItems.forEach((item, index) => {
        const listItem = document.createElement('li');
        listItem.innerHTML = `
            <span>${item}</span>
            <button onclick="removeItem(${index})">Remove</button>
        `;
        shoppingList.appendChild(listItem);
    });
}
function addItem() {
    const itemInput = document.getElementById('itemInput');
    const newItem = itemInput.value.trim();

    if (newItem !== '') {
        shoppingItems.push(newItem);
        renderShoppingList();
        itemInput.value = '';
    }
}

function removeItem(index) {
    shoppingItems.splice(index, 1);
    renderShoppingList();
}
renderShoppingList();
```

Shopping List

| Add an item | Add |

APPLES — Remove

ORANGE — Remove

GRAPES — Remove