# Web Technology Lab - 06

## Name – Abhijeet Parashar

## **Branch – Mathematics and Computing**

**Roll No. – 22MC3001** 

```
<!DOCTYPE html>
<html>
   <title>Simple Shopping List</title>
<body>
<h2>Shopping List</h2>
<input type="text" id="itemInput" placeholder="Add new item">
<button onclick="addItem()">Add Item</button>
id="shoppingList">
<script>
   function addItem() {
       var input = document.getElementById('itemInput');
       var item = input.value;
       if (item) {
           var li = document.createElement('li');
           li.textContent = item;
           document.getElementById('shoppingList').appendChild(li);
           input.value = ''; // Clear input field
        } else {
            alert('Please enter an item.');
</script>
</body>
</html>
```

#### **Shopping List**

Surf Excel Add Item

- Toothbrush
- · Toothpaste
- Shampoo

### Now,

```
<!DOCTYPE html>
<html lang="en">
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>Shopping List MVC</title>
</head>
<body>
<h2>Shopping List</h2>
<input type="text" id="itemInput" placeholder="Add new item">
<button>Add Item
class ShoppingListModel {
       constructor() {
           this.items = [];
       addItem(item) {
           this.items.push(item);
       getItems() {
           return this.items;
   class ShoppingListView {
```

```
constructor() {
        this.itemInput = document.getElementById('itemInput');
        this.addButton = document.querySelector('button');
        this.shoppingList = document.getElementById('shoppingList');
   bindAddItem(handler) {
        this.addButton.addEventListener('click', () => {
            const item = this.itemInput.value.trim();
            if (item !== '') {
                handler(item);
                this.itemInput.value = '';
            } else {
                alert('Please enter an item.');
        });
   displayItems(items) {
        this.shoppingList.innerHTML = '';
        items.forEach(item => {
            const li = document.createElement('li');
            li.textContent = item;
            this.shoppingList.appendChild(li);
       });
class ShoppingListController {
    constructor(model, view) {
        this.model = model;
        this.view = view;
        this.view.bindAddItem(this.handleAddItem.bind(this));
        this.render();
   handleAddItem(item) {
        this.model.addItem(item);
        this.render();
    render() {
        const items = this.model.getItems();
        this.view.displayItems(items);
    }
```

```
// Initialize MVC
document.addEventListener('DOMContentLoaded', function() {
    const model = new ShoppingListModel();
    const view = new ShoppingListView();
    const controller = new ShoppingListController(model, view);
});
</script>
</body>
</html>
```

### **Shopping List**

Biscuits Add Item

- Surf Excel
- Toothpaste
- Toothbrush