## **WEB TECH LAB:6**

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<!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>
                   body {
    <style>
font-family: Arial, sans-serif;
margin: 20px;
                 #app {
max-width: 400px;
margin: 0 auto;
       #items-list {
list-style-type: none;
padding: 0;
   </style>
<body>
   <div id="app">
       <h1>Shopping List</h1>
       <input type="text" id="itemInput" placeholder="Enter item">
       <button onclick="addItem()">Add Item</button>
       </div>
   <script>
    // MVC-based prototype
    // Model
   class ShoppingListModel {
constructor() {
this.items = [];
```

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addItem(item) {
this.items.push(item);
this.itemList = document.getElementById('items-list');
this.itemInput = document.getElementById('itemInput');
this.addButton = document.querySelector('button');
bindAddItem(handler) {
this.addButton.addEventListener('click', () => {
itemName = this.itemInput.value.trim();
                                                 if (itemName
!== '') {
                        handler(itemName);
this.itemInput.value = ''; // Clear the input field
       });
          renderItems(items) {
this.itemList.innerHTML = '';
                                    items.forEach(item
                const listItem =
document.createElement('li');
listItem.textContent = item;
           this.itemList.appendChild(listItem);
       });
}
// Controller
class ShoppingListController
    constructor(model,
view) {
              this.model =
model;
             this.view =
view;
       // Initial render
       this.view.renderItems(this.model.items);
       // Bind events
this.view.bindAddItem(this.handleAddItem.bind(this));
handleAddItem(itemName) {
this.model.addItem(itemName);
```

## Output:

## **Shopping List**

Enter item	Add Item
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SAMSUNG S22 ULTRA IPHONE 16 PRO MAX GUCCI BELT