

Web Technology

Lab - 6

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Q1)

Html file

```
E:\Sem - 4\CS - 222 - Web Technology\Lab6 > index.html > ...
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>Shopping list</title>
7   <link rel="stylesheet" href="style.css">
8 </head>
9 <body>
10
11 <div id="shopping-list">
12   <h2>Shopping list</h2>
13   <ul id="list-items"></ul>
14   <div>
15     <input type="text" id="item-input" placeholder="Add item...">
16     <button id="add-btn">Add</button>
17   </div>
18
19   <script src="model.js"></script>
20   <script src="view.js"></script>
21   <script src="controller.js"></script>
22 </div>
23
24 </body>
25 </html>
26
```

Css file

```
E:\Sem - 4\CS - 222 - Web Technology\Lab6 > style.css > %body
1 body {
2   font-family: "Segoe UI", Tahoma, Geneva, Verdana, sans-serif;
3   background-color: #f0f0f0;
4   margin: 20px;
5 }
6
7 #shopping-list {
8   width: 400px;
9   margin: 0 auto;
10  background-color: #fff;
11  border-radius: 10px;
12  padding: 20px;
13  box-shadow: 0 0 10px #ccc;
14 }
15
16 h2 {
17   color: #333;
18   text-align: center;
19 }
20
21 #list-items {
22   list-style-type: none;
23   padding: 0;
24 }
25
26 #list-items li {
27   padding: 10px;
28   border-bottom: 1px solid #ccc;
29   font-size: 14px;
30 }
31
32 #item-input {
33   width: 70%;
34   padding: 10px;
35   font-size: 14px;
36 }
37
38 #add-btn {
39   cursor: pointer;
40   padding: 10px 10px;
41   font-size: 14px;
42   background-color: #4CAF50;
43   color: #fff;
44   border: none;
45   border-radius: 5px;
46   transition: background-color 0.3s;
47 }
48
49 #add-btn:hover {
50   background-color: #4CAF50;
51 }
```

Model.js file

```

E: > Sem - 4 > CS - 222 - Web Technology > lab6 > JS model.js > ...
1  class ShoppingList {
2      constructor() {
3          this.items = [];
4      }
5
6      addItem(itemText) {
7          this.items.push(itemText);
8      }
9  }
10
11  const shoppingList = new ShoppingList();
12

```

View.js file

```

E: > Sem - 4 > CS - 222 - Web Technology > lab6 > JS view.js > ...
1  // view.js
2  const shoppingListView = (function () {
3      function displayItems() {
4          const list = document.getElementById('list-items');
5          list.innerHTML = '';
6
7          shoppingList.items.forEach(function (itemText) {
8              const listItem = document.createElement('li');
9              listItem.textContent = itemText;
10             list.appendChild(listItem);
11         });
12     }
13
14     return {
15         displayItems: displayItems
16     };
17 })();
18

```

Controller.js file

```
E > Sem - 4 > CS - 222 - Web Technology > lab6 > # controller.js > ...
1 // controller.js
2 const shoppingListController = (function () {
3     function handleAddButtonClick() {
4         const inputElement = document.getElementById('item-input');
5         const itemText = inputElement.value.trim();
6
7         if (itemText !== '') {
8             shoppingList.addItem(itemText);
9             shoppingListView.displayItems();
10
11             // Clear input field
12             inputElement.value = '';
13         }
14     }
15
16     document.getElementById('add-btn').addEventListener('click', handleAddButtonClick);
17
18     // Initial display
19     shoppingListView.displayItems();
20 })();
21
```

Output file

