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
                                    Ln 26, Col 1    Spaces: 4    UTF-8    CRLF    HTML
```

Css file

```
E: > Sem - 4 > CS - 222 - Web Technology > lab6 > # style.css > body
1   body {
2       font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-seri
3       background-color: #f4f4f4;
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 rgba(0, 0, 0, 0.1);
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 #ddd;
29      font-size: 16px;
```

```
E: > Sem - 4 > CS - 222 - Web Technology > lab6 > # style.css > #shopping-list
25      }
26      #list-items li {
27          padding: 10px;
28          border-bottom: 1px solid #ddd;
29          font-size: 16px;
30          color: #555;
31      }
32
33      #item-input {
34          width: 70%;
35          padding: 10px;
36          font-size: 14px;
37      }
38
39      #add-btn {
40          cursor: pointer;
41          padding: 10px 15px;
42          font-size: 14px;
43          background-color: #4CAF50;
44          color: #fff;
45          border: none;
46          border-radius: 5px;
47          transition: background-color 0.3s;
48      }
49
50      #add-btn:hover {
51          background-color: #45a049;
52      }
53
                                    Ln 1, Col 1    Spaces: 4    UTF-8    CRLF    CSS
```

Model.js file

```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

```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 > JS 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