

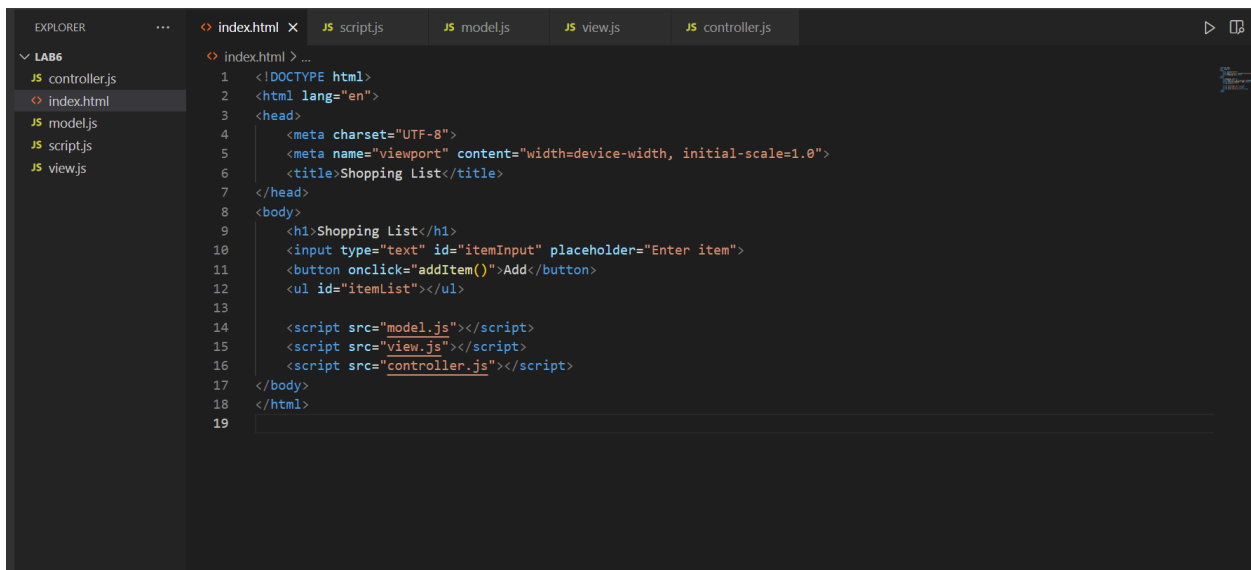
Web Technology

Lab Assignment - 6

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



```
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 </head>
8 <body>
9   <h1>Shopping List</h1>
10  <input type="text" id="itemInput" placeholder="Enter item">
11  <button onclick="addItem()">Add</button>
12  <ul id="itemList"></ul>
13
14  <script src="model.js"></script>
15  <script src="view.js"></script>
16  <script src="controller.js"></script>
17 </body>
18 </html>
19
```



```
1 function addItem() {
2   var itemInput = document.getElementById("itemInput").value;
3   addItemToList(itemInput);
4   renderShoppingList();
5 }
6
7 // Initial rendering
8 renderShoppingList();
9
```

JS model.js > ...

```
1 var shoppingList = [];  
2  
3 ✓ function addItemToList(item) {  
4     shoppingList.push(item);  
5 }  
6  
7 ✓ function getShoppingList() {  
8     return shoppingList;  
9 }  
10
```

JS script.js > ...

```
1 function addItem() {  
2     var itemInput = document.getElementById("itemInput");  
3     var itemList = document.getElementById("itemList");  
4     var listItem = document.createElement("li");  
5     listItem.textContent = itemInput.value;  
6     itemList.appendChild(listItem);  
7     itemInput.value = "";  
8 }  
9
```

JS view.js > ...

```
1 ✓ function renderShoppingList() {  
2     var itemList = document.getElementById("itemList");  
3     itemList.innerHTML = "";  
4     var list = getShoppingList();  
5 ✓     list.forEach(function(item) {  
6         var listItem = document.createElement("li");  
7         listItem.textContent = item;  
8         itemList.appendChild(listItem);  
9     });  
10 }  
11
```

Output:

Shopping List

- PEN
- book
- phone
- laptop[