

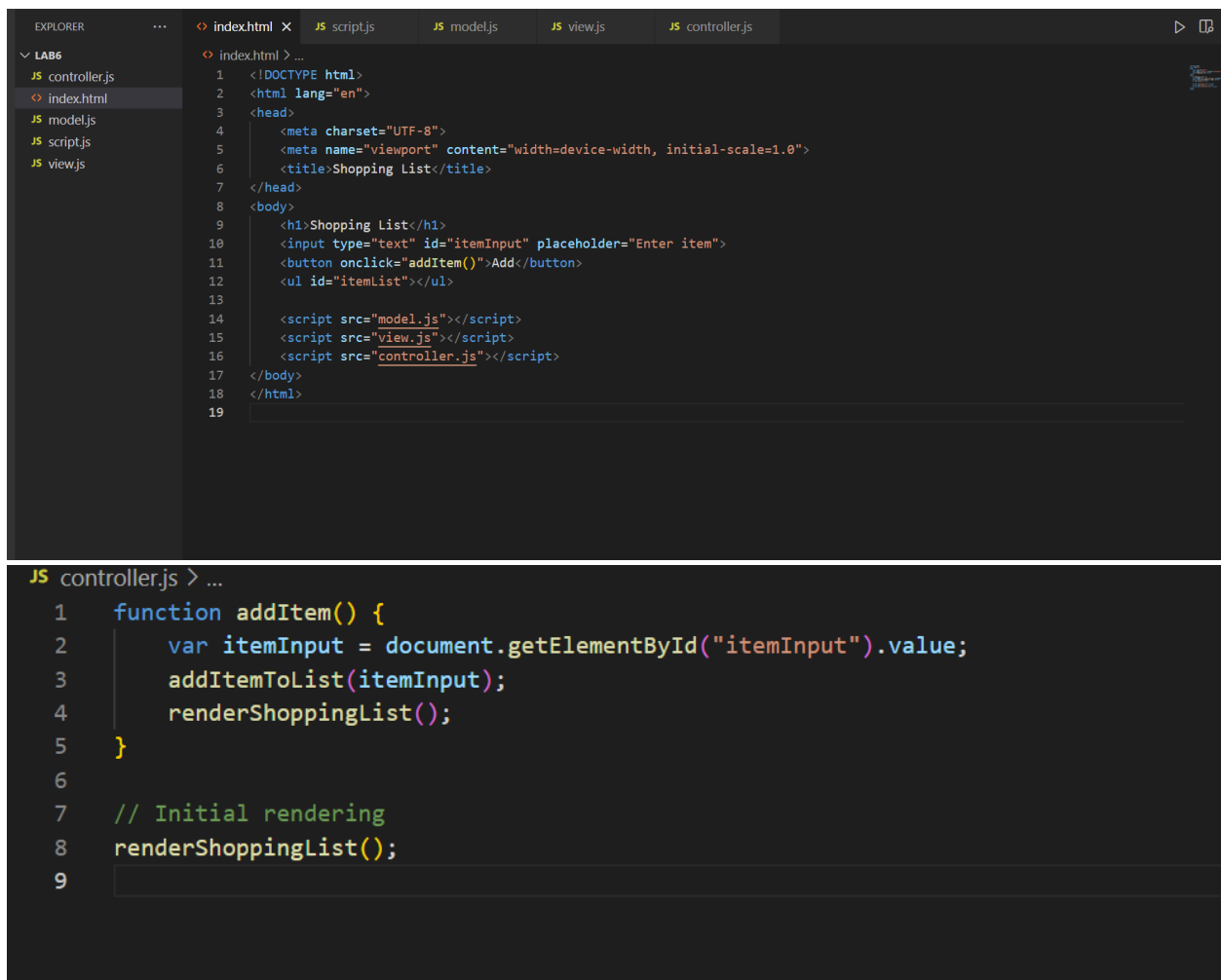
Web Technology

Lab Assignment - 6

Name: Shubham Kumar

Roll No: 22MC3032

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



```
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 </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

JS controller.js > ...
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[