

Web Technology Assignment - lab 6

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Simple Prototype

Q1. <!DOCTYPE html>

```
<html lang="en">
```

```
<head>
```

```
<meta charset="UTF-8">
```

```
<meta name="viewport" content="width=device-width,  
initial-scale=1.0">
```

```
<title>Simple Shopping List</title>
```

```
</head>
```

```
<body>
```

```
<h1>Shopping List</h1>
```

```
<input type="text" id="itemInput" placeholder="Enter item">
```

```
<button onclick="addItem()">Add</button>
```

```
<ul id="itemList"></ul>
```

```
<script>
```

```
function addItem() {
```

```
    var input = document.getElementById("itemInput");
```

```
    var item = input.value;
```

```
    if (item === "") return;
```

```
    var itemList = document.getElementById("itemList");
```

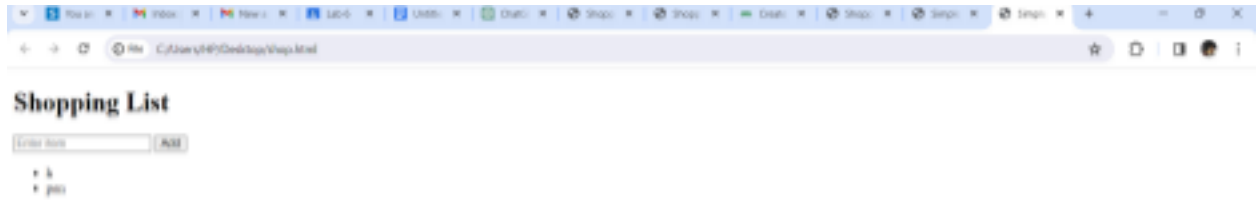
```
    var li = document.createElement("li");
```

```
    li.appendChild(document.createTextNode(item));
```

```

        itemList.appendChild(li);
        input.value = "";
    }
</script>
</body>
</html>

```



By using MVC Prototype

```

<!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>
    <style>
        body {
            font-family: Arial, sans-serif;
        }
    </style>

```

```
h1 {
  text-align: center;
}
input[type="text"] {
  padding: 8px;
  width: 60%;
  margin: 10px auto;
  display: block;
  border: 1px solid #ccc;
  border-radius: 5px;
}
button {
  padding: 8px 16px;
  background-color: #007bff;
  color: #fff;
  border: none;
  border-radius: 5px;
  cursor: pointer;
}
button:hover {
  background-color:
#0056b3; }
ul {
  list-style-type: none;
  padding: 0;
  margin: 20px auto;
  width: 60%;
  background-color: #fff;
  border-radius: 5px;
  box-shadow: 0 2px 5px rgba(0,0,0,0.1);
}
li {
```

```
padding: 10px;
border-bottom: 1px solid #ccc;
}
</style>
</head>
<body>
  <h1>Shopping List</h1>
  <input type="text" id="itemInput" placeholder="Enter item">
  <button onclick="controller.addItem()">Add</button> <ul
  id="itemList"></ul>

  <script>
    var model = {
      items: [],

      addItem: function(item) {
        this.items.push(item);
        view.render();
      },

      getItems: function() {
        return this.items;
      }
    };

    var view = {
      render: function() {
        var itemList = document.getElementById("itemList");
        itemList.innerHTML = "";

        var items = model.getItems();
        items.forEach(function(item) {
          var li = document.createElement("li");
```

```
        li.textContent = item;
        itemList.appendChild(li);
    });
}
};
```

```
var controller = {
    addItem: function() {
        var input = document.getElementById("itemInput");
        var item = input.value.trim();
        if (item === "") return;

        model.addItem(item);
        input.value = "";
    }
};
```

```
window.onload = function() {
    view.render();
};
</script>
</body>
</html>
```

