

lab6

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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">

<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;
  }
  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>

```

