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Simple Prototype

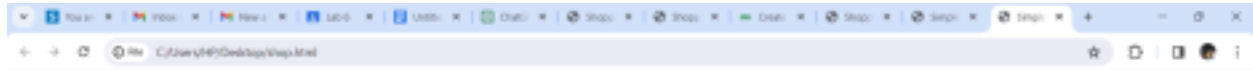
```
Question1. <!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width,
initial-scale=1.0">
<title>Simple Shopping List</title>
</head>
<body>
  <h1>Shopping List</h1>
  <input type="text" id="itemInput" placeholder="Enter item">
  <button onclick="addItem()">Add</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>
```

```
</script>
</body>
</html>
```



Shopping List

Enter item

- k
- pao



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>
```

