

## WEBTECH LAB-6

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

### Simple prototype

```
<!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>
<style>
  body {
    font-family: Arial, sans-serif;
    margin: 20px;
  }
  #shopping-list {
    width: 300px;
    border: 1px solid #ccc;
    padding: 10px;
    border-radius: 5px;
  }
  #shopping-list ul {
    list-style-type: none;
    padding: 0;
  }
  #shopping-list li {
    margin-bottom: 5px;
  }
</style>
</head>
<body>

<div id="shopping-list">
  <h2>Shopping List</h2>
  <input type="text" id="item" placeholder="Add item">
  <button onClick="addItem()">Add</button>
  <ul id="items-list"></ul>
</div>
```

```

<script>
  let shoppingList = [];

  function addItem() {
    const newItem = document.getElementById('item').value;
    if (newItem.trim() !== '') {
      shoppingList.push(newItem);
      document.getElementById('item').value = '';
      renderList();
    }
  }

  function renderList() {
    const listContainer = document.getElementById('items-list');
    listContainer.innerHTML = '';
    shoppingList.forEach(item => {
      const li = document.createElement('li');
      li.textContent = item;
      listContainer.appendChild(li);
    });
  }
</script>

</body>
</html>

```

## Shopping List



## Shopping List



Potato

Tomato

## MVC

### HTML

```
<!DOCTYPE html>
<html lang="en">
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scale=1.0">
<title>Shopping List</title>
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  #shopping-list ul {
    list-style-type: none;
    padding: 0;
  }
  #shopping-list li {
    margin-bottom: 5px;
  }
</style>
</head>
<body>

<div id="shopping-list">
  <h2>Shopping List</h2>
  <input type="text" id="item" placeholder="Add item">
  <button id="addItemBtn">Add</button>
  <ul id="items-list"></ul>
</div>

<script src="controller.js"></script>

</body>
</html>
```

JAVASCRIPT

```
let shoppingList = [];  
  
function renderList() {  
  const listContainer = document.getElementById('items-list');  
  listContainer.innerHTML = '';  
  shoppingList.forEach(item => {  
    const li = document.createElement('li');  
    li.textContent = item;  
    listContainer.appendChild(li);  
  });  
}  
  
document.getElementById('addItemBtn').addEventListener('click',  
function() {  
  const newItem = document.getElementById('item').value;  
  if (newItem.trim() !== '') {  
    shoppingList.push(newItem);  
    document.getElementById('item').value = '';  
    renderList();  
  }  
}));  
  
renderList();
```

## Shopping List

## Shopping List

Potato

Tomato