

WEB TECHNOLOGY

LAB 6

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Simple prototype:

HTML:

```
<!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;
      text-align: center;
    }

    #app {
      max-width: 400px;
      margin: 20px auto;
    }

    input[type="text"] {
      width: 70%;
      padding: 8px;
      margin: 5px;
    }

    button {
      padding: 8px 15px;
      margin: 5px;
      cursor: pointer;
    }

    ul {
```

```

        list-style-type: none;
        padding: 0;
    }

    li {
        border-bottom: 1px solid #ccc;
        padding: 10px;
    }

    li:last-child {
        border-bottom: none;
    }
</style>
</head>
<body>

<div id="app">
    <h2>Shopping List</h2>
    <input type="text" id="itemInput" placeholder="Add an item">
    <button onclick="addItem()">Add</button>

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

<script src="app.js"></script>
</body>
</html>

```

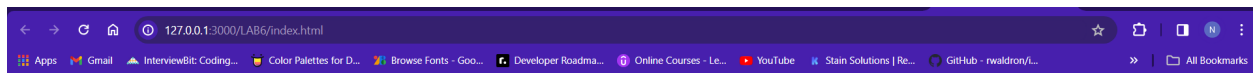
JS:

```

// Simple prototype logic
function addItem() {
    var itemInput = document.getElementById('itemInput');
    var itemList = document.getElementById('itemList');

    if (itemInput.value.trim() !== '') {
        var li = document.createElement('li');
        li.appendChild(document.createTextNode(itemInput.value));
        itemList.appendChild(li);
        itemInput.value = '';
    }
}

```



Shopping List

Brush

Toothpaste

Facewash

FaceCream

MVC Prototype:

HTML:

```
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<head>
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  <title>Shopping List</title>
  <style>
    body {
      font-family: Arial, sans-serif;
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    }

    #app {
      max-width: 400px;
      margin: 20px auto;
    }

    input[type="text"] {
      width: 70%;
      padding: 8px;
    }
  </style>
</head>
<body>
  <div id="app">
    <input type="text" value="Add an item" />
    <input type="button" value="Add" />
    <br />
    <div>
      <div>Brush</div>
      <div>Toothpaste</div>
      <div>Facewash</div>
      <div>FaceCream</div>
    </div>
  </div>
</body>
</html>
```

```

        margin: 5px;
    }

    button {
        padding: 8px 15px;
        margin: 5px;
        cursor: pointer;
    }

    ul {
        list-style-type: none;
        padding: 0;
    }

    li {
        border-bottom: 1px solid #ccc;
        padding: 10px;
    }

    li:last-child {
        border-bottom: none;
    }
</style>
</head>
<body>

    <div id="app">
        <h2>Shopping List</h2>
        <input type="text" id="itemInput" placeholder="Add an item">
        <button onclick="addItem()">Add</button>

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

    <script src="model.js"></script>
    <script src="view.js"></script>
    <script src="controller.js"></script>
</body>
</html>

```

Model.js:

```
// Model
var shoppingList = [];

function addItemToShoppingList(item) {
    shoppingList.push(item);
}

function getShoppingList() {
    return shoppingList;
}
```

View.js

```
// View
function renderShoppingList() {
    var itemList = document.getElementById('itemList');
    itemList.innerHTML = '';

    var list = getShoppingList();

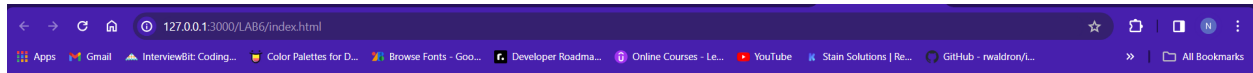
    list.forEach(function (item) {
        var li = document.createElement('li');
        li.appendChild(document.createTextNode(item));
        itemList.appendChild(li);
    });
}
```

Controller.js

```
// Controller
function addItem() {
    var itemInput = document.getElementById('itemInput');
    var newItem = itemInput.value.trim();

    if (newItem !== '') {
        addItemToShoppingList(newItem);
        renderShoppingList();
        itemInput.value = '';
    }
}
```

OUTPUT:



Shopping List

BRUSH

PASTE

COMB

TOWEL