Web Technology
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Simple Prototype

Q1.
```html
<!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>
```
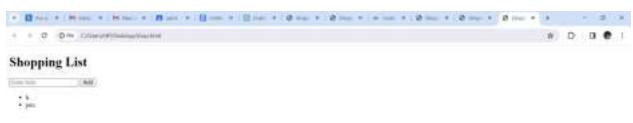
</html>

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; }
    h1 {
      text-align: center;
    }
    input[type="text"] {
      padding: 8px;
      width: 60%;
      margin: 10px auto;
      display: block;
      border: 1px solid #ccc;
      border-radius: 5px;
    }
```

```css
    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() {
```

```javascript
      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>
```

Shopping List

Enter item

[Add]

pen

bottle