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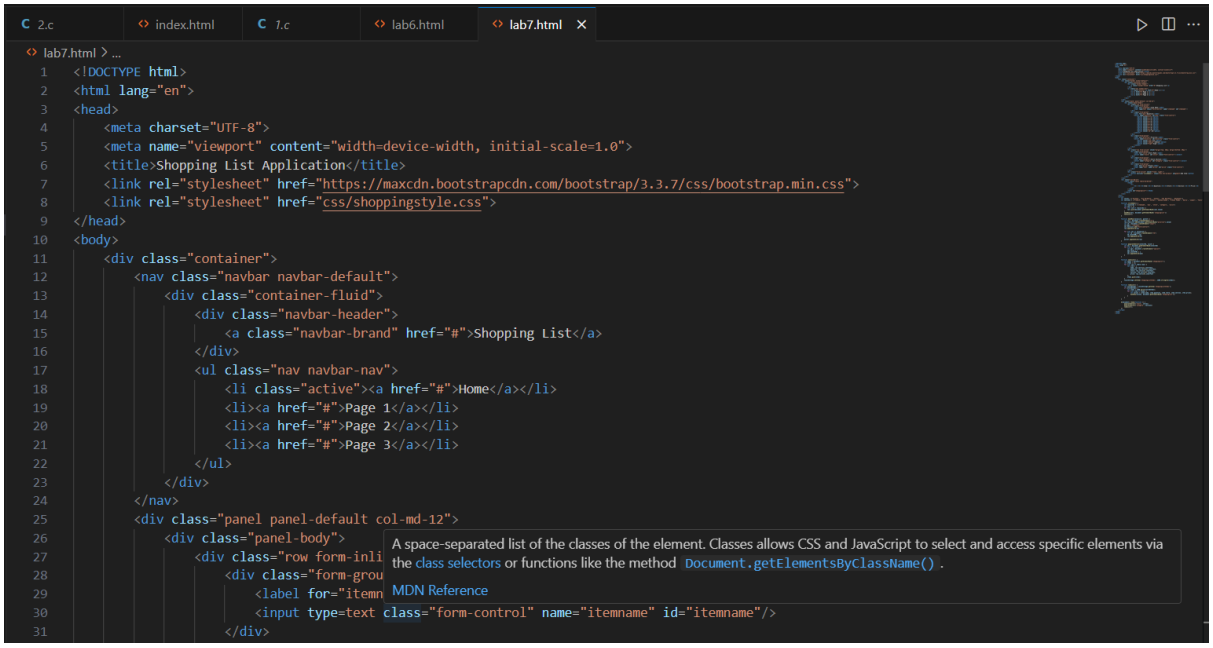
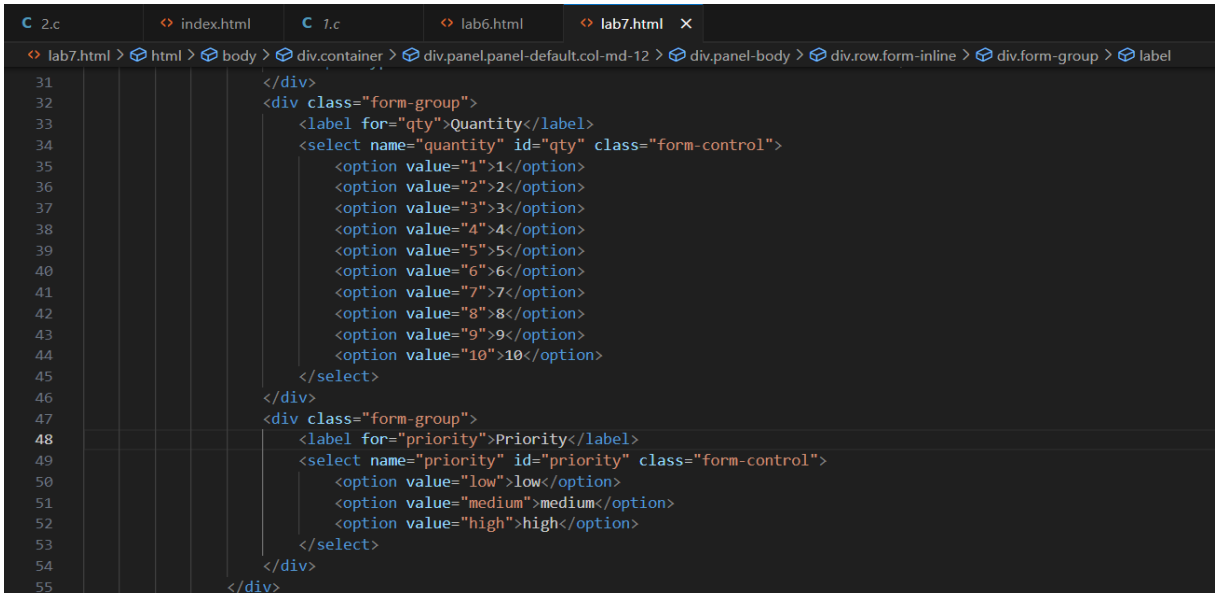
LAB ASSIGNMENT-7

1. Develop prototype 3 continuing with the last lab. Confirm that the app now remembers your list even after a page refresh.

CODE:-





2.c | index.html | 1.c | lab6.html | lab7.html

lab7.html > html > body > div.container > div.panel.panel-default.col-md-12 > div.panel-body > div.row.form-inline > div.form-group > label

```
82                  <tbody id="shoppinglist"></tbody>
83              </table>
84          </div>
85      </div>
86      <script>
87          var stores = ['Fareway', 'Ace Hardware', 'Caseys', 'The Hatchery', 'Amundsens']
88          var sections = ['Produce', 'Meats', 'Cereal', 'Canned Goods', 'Frozen Foods', 'Dairy', 'Liquor', 'Tools', 'Clothing']
89
90          function clickedon() {
91              let rowcolids = ['itemname', 'qty', 'store', 'category', 'price']
92              let vals = []
93              for (let cid of rowcolids) {
94                  vals.push(document.getElementById(cid).value)
95              }
96              makeRow(vals, document.getElementById('shoppinglist'))
97              saveList();
98          }
99
100         function makeRow(valueList, parent) {
101             let row = document.createElement("tr")
102             row.classList.add(document.getElementById("priority").value)
103             let cb = document.createElement("input")
```

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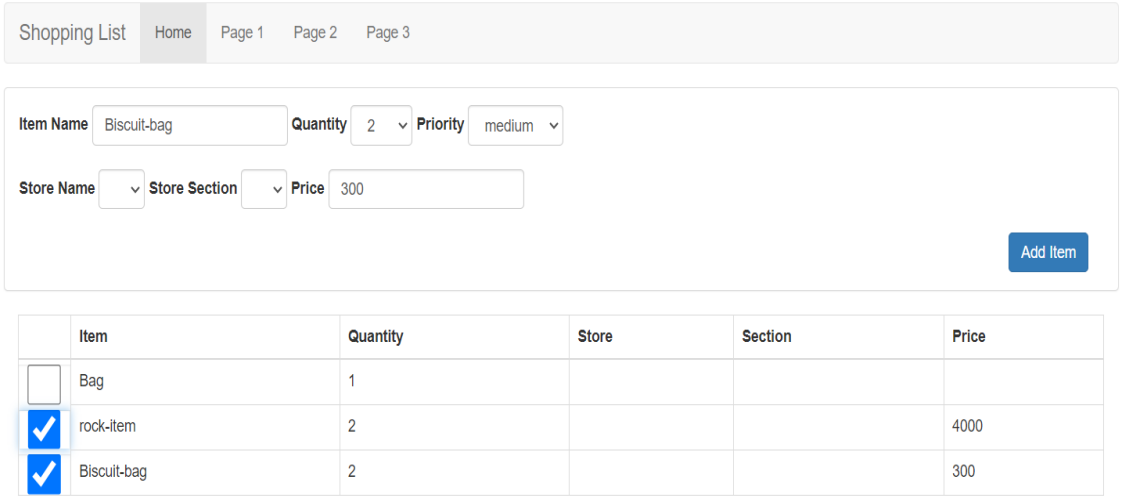
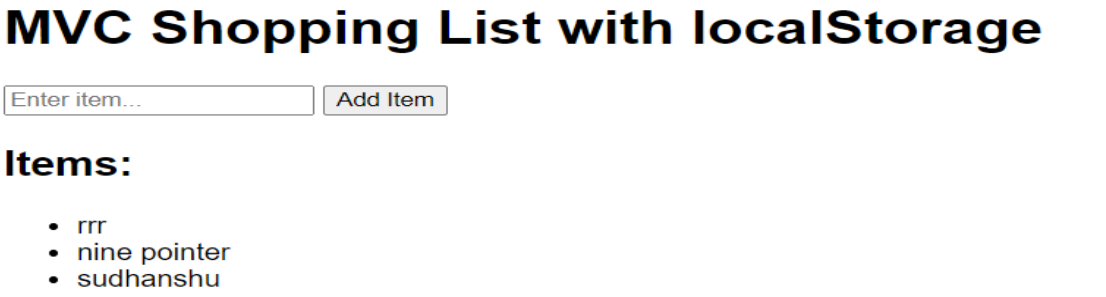
```
99
100         function makeRow(valueList, parent) {
101             let row = document.createElement("tr")
102             row.classList.add(document.getElementById("priority").value)
103             let cb = document.createElement("input")
104             cb.type = "checkbox"
105             cb.classList.add("form-control")
106             row.appendChild(cb)
107
108             for (let val of valueList) {
109                 let td = document.createElement("td")
110                 td.innerHTML = val
111                 row.appendChild(td)
112             }
113             parent.appendChild(row)
114         }
115
116         function populateSelect(selectId, sList) {
117             let sel = document.getElementById(selectId)
118             for (let s of sList) {
119                 let opt = document.createElement("option")
120                 opt.value = s
121                 opt.innerHTML = s
122                 sel.appendChild(opt)
123             }
124         }
125
126         function saveList() {
127             let table = document.getElementById('shoppinglist');
128             let items = [];
```

```
lab7.html > html > body > div.container > div.panel.panel-default.col-md-12 > div.panel-body > div.row.form-inline > div.form-group > label
137                 items.push(item);
138             }
139             localStorage.setItem('shoppingListItems', JSON.stringify(items));
140         }
141
142         function loadList() {
143             let storedItems = localStorage.getItem('shoppingListItems');
144             if (storedItems) {
145                 let items = JSON.parse(storedItems);
146                 for (let item of items) {
147                     let values = [item.name, item.quantity, item.store, item.section, item.price];
148                     makeRow(values, document.getElementById('shoppinglist'));
149                 }
150             }
151         }
152
153         $(document).ready(function () {
154             populateSelect('store', stores)
155             populateSelect('category', sections)
156             loadList();
157         })
158     </script>
159 </body>
160 </html>
161
```

Output:-





2. Create a local storage that saves the number of times you have accessed the page and displays it.

Code:-

lab7.html > ...

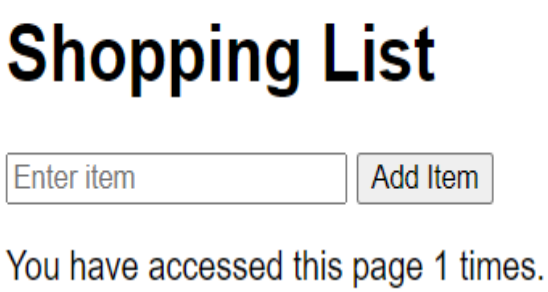
```html
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Shopping List</title>
  <style>
    body {
      font-family: Arial, sans-serif;
    }
    #shopping-list {
      margin: 20px;
    }
    #items {
      list-style-type: none;
      padding: 0;
    }
    #items li {
      margin-bottom: 5px;
    }
  </style>
</head>
<body>

<div id="shopping-list">
  <h1>Shopping List</h1>
  <input type="text" id="item" placeholder="Enter item">
  <button id="addItemBtn">Add Item</button>
  <ul id="items"></ul>
  <p>You have accessed this page <span id="pageAccessCount"></span> times.</p>
</div>
```

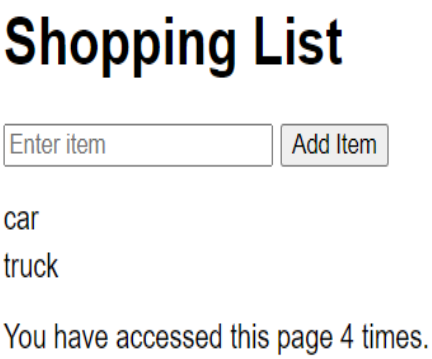
```html
  <script>
    class Model {
      constructor() {
        this.items = JSON.parse(localStorage.getItem('shoppingList')) || [];
        this.accessCount = localStorage.getItem('accessCount') || 0;
      }

      addItem(item) {
        this.items.push(item);
        this.save();
      }

      getItems() {
        return this.items;
      }

      save() {
        localStorage.setItem('shoppingList', JSON.stringify(this.items));
      }

      incrementAccessCount() {
        this.accessCount++;
        localStorage.setItem('accessCount', this.accessCount);
      }

      getAccessCount() {
        return this.accessCount;
      }
    }
```

```
    class View {
      constructor() {
        this.itemsList = document.getElementById('items');
        this.itemInput = document.getElementById('item');
        this.addItemBtn = document.getElementById('addItemBtn');
        this.pageAccessCount = document.getElementById('pageAccessCount');
      }

      getNewItem() {
        return this.itemInput.value.trim();
      }

      clearInput() {
        this.itemInput.value = '';
      }

      renderItems(items) {
        this.itemsList.innerHTML = '';
        items.forEach(item => {
          const li = document.createElement('li');
          li.textContent = item;
          this.itemsList.appendChild(li);
        });
      }

      renderAccessCount(count) {
        this.pageAccessCount.textContent = count;
      }
    }
```

```
  class Controller {
    constructor(model, view) {
      this.model = model;
      this.view = view;

      this.view.addItemBtn.addEventListener('click', () => this.addItem());

      this.initialRender();
    }

    initialRender() {
      this.view.renderItems(this.model.getItems());
      this.view.renderAccessCount(this.model.getAccessCount());
      this.model.incrementAccessCount();
    }

    addItem() {
      const newItem = this.view.getNewItem();
      if (newItem !== '') {
        this.model.addItem(newItem);
        this.view.renderItems(this.model.getItems());
        this.view.clearInput();
      }
    }
  }

  const model = new Model();
  const view = new View();
  const controller = new Controller(model, view);
</script>

</body>
</html>
```

Output:-


Shopping List
Enter item
Add Item
You have accessed this page 1 times.


Shopping List
Enter item
Add Item
car
truck
You have accessed this page 4 times.