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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:-

```
lab7.html > ...
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <meta charset="UTF-8">
5      <meta name="viewport" content="width=device-width, initial-scale=1.0">
6      <title>Shopping List Application</title>
7      <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.css">
8      <link rel="stylesheet" href="css/shoppingstyle.css">
9  </head>
10 <body>
11     <div class="container">
12         <nav class="navbar navbar-default">
13             <div class="container-fluid">
14                 <div class="navbar-header">
15                     <a class="navbar-brand" href="#">Shopping List</a>
16                 </div>
17                 <ul class="nav navbar-nav">
18                     <li class="active"><a href="#">Home</a></li>
19                     <li><a href="#">Page 1</a></li>
20                     <li><a href="#">Page 2</a></li>
21                     <li><a href="#">Page 3</a></li>
22                 </ul>
23             </div>
24         </nav>
25         <div class="panel panel-default col-md-12">
26             <div class="panel-body">
27                 <div class="row form-inli">
28                     <div class="form-group">
29                         <label for="itemname">MDN Reference
30                         <input type="text" class="form-control" name="itemname" id="itemname"/>
31                     </div>

```

```
C 2.c index.html 7.c lab6.html lab7.html X
lab7.html > html > body > div.container > div.panel.panel-default.col-md-12 > div.panel-body > div.row.form-inline > div.form-group > label
31 </div>
32 <div class="form-group">
33 <label for="qty">Quantity</label>
34 <select name="quantity" id="qty" class="form-control">
35 <option value="1">1</option>
36 <option value="2">2</option>
37 <option value="3">3</option>
38 <option value="4">4</option>
39 <option value="5">5</option>
40 <option value="6">6</option>
41 <option value="7">7</option>
42 <option value="8">8</option>
43 <option value="9">9</option>
44 <option value="10">10</option>
45 </select>
46 </div>
47 <div class="form-group">
48 <label for="priority">Priority</label>
49 <select name="priority" id="priority" class="form-control">
50 <option value="low">low</option>
51 <option value="medium">medium</option>
52 <option value="high">high</option>
53 </select>
54 </div>
55 </div>
```

```
C 2.c index.html 7.c lab6.html lab7.html X
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")
```

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

Shopping List
Home
Page 1
Page 2
Page 3

Item Name
Biscuit-bag
Quantity
2
Priority
medium
Store Name
Store Section
Price
300
Add Item

|                                     | Item        | Quantity | Store | Section | Price |
|-------------------------------------|-------------|----------|-------|---------|-------|
| <input type="checkbox"/>            | Bag         | 1        |       |         |       |
| <input checked="" type="checkbox"/> | rock-item   | 2        |       |         | 4000  |
| <input checked="" type="checkbox"/> | Biscuit-bag | 2        |       |         | 300   |

## MVC Shopping List with localStorage

Add Item

### Items:

- rrr
- nine pointer
- sudhanshu

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

Code:-

```

lab7.html > ...
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4    <meta charset="UTF-8">
5    <meta name="viewport" content="width=device-width, initial-scale=1.0">
6    <title>Shopping List</title>
7    <style>
8      body {
9        font-family: Arial, sans-serif;
10     }
11     #shopping-list {
12       margin: 20px;
13     }
14     #items {
15       list-style-type: none;
16       padding: 0;
17     }
18     #items li {
19       margin-bottom: 5px;
20     }
21   </style>
22 </head>
23 <body>
24
25 <div id="shopping-list">
26   <h1>Shopping List</h1>
27   <input type="text" id="item" placeholder="Enter item">
28   <button id="addItemBtn">Add Item</button>
29   <ul id="items"></ul>
30   <p>You have accessed this page <span id="pageAccessCount"></span> times.</p>
31 </div>
32

```

```

33 <script>
34   class Model {
35     constructor() {
36       this.items = JSON.parse(localStorage.getItem('shoppingList')) || [];
37       this.accessCount = localStorage.getItem('accessCount') || 0;
38     }
39
40     addItem(item) {
41       this.items.push(item);
42       this.save();
43     }
44
45     getItems() {
46       return this.items;
47     }
48
49     save() {
50       localStorage.setItem('shoppingList', JSON.stringify(this.items));
51     }
52
53     incrementAccessCount() {
54       this.accessCount++;
55       localStorage.setItem('accessCount', this.accessCount);
56     }
57
58     getAccessCount() {
59       return this.accessCount;
60     }
61   }
62

```

```

62
63 class View {
64   constructor() {
65     this.itemsList = document.getElementById('items');
66     this.itemInput = document.getElementById('item');
67     this.addItemBtn = document.getElementById('addItemBtn');
68     this.pageAccessCount = document.getElementById('pageAccessCount');
69   }
70
71   getNewItem() {
72     return this.itemInput.value.trim();
73   }
74
75   clearInput() {
76     this.itemInput.value = '';
77   }
78
79   renderItems(items) {
80     this.itemsList.innerHTML = '';
81     items.forEach(item => {
82       const li = document.createElement('li');
83       li.textContent = item;
84       this.itemsList.appendChild(li);
85     });
86   }
87
88   renderAccessCount(count) {
89     this.pageAccessCount.textContent = count;
90   }
91 }
92

```

```

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

 

You have accessed this page 1 times.

# Shopping List

 

car  
truck

You have accessed this page 4 times.