

NAME-SUDHANSHU SHIVAM
BRANCH-CSE
ROLL NO-22cs3059

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-inline">
28           <div class="form-group">
29             <label for="itemname">
30               <input type="text" class="form-control" name="itemname" id="itemname"/>
31             </div>
```

```
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    C 1.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")
```

```
C 2.c    index.html    C 1.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
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 = [];
```

```
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

Enter item...

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.