

# Lab 6

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The screenshot shows a web browser window with a dark theme. The address bar displays "Lab 1 march". The page title is "index.html". The page content is a shopping list application. It features a form with several input fields and a table. The form includes a "priority" dropdown menu, a "store" dropdown menu, a "category" dropdown menu, and a "price" input field. Below the form is a table with the following columns: "Item", "Quantity", "Store", "Section", and "Prices". The table has one row with the following data: "Item", "Quantity", "Store", "Section", "Prices".

Item	Quantity	Store	Section	Prices
Item	Quantity	Store	Section	Prices

```
File Edit Selection View Go Run Terminal Help Lab 1 march
index.html x JS scripts JS model.js JS view.js JS controls.js
index.html > HTML > body > div.container > div.panel-default.col-md-12 > div.panel-body > div.row-form-inline > div.form-group
76 </div>
77 </div>
78 <div class="col-md-12">
79 <table class="table table-bordered">
80 <thead>
81 <tr>
82 <th></th><th>Item</th><th>Quantity</th><th>Store</th><th>Section</th><th>Price</th>
83 </tr>
84 </thead>
85 <tbody id="shoppinglist"></tbody>
86 </table>
87 </div>
88 </div>
89 <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>
90 <script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/js/bootstrap.min.js"></script>
91 <script src="js/shopping.js"></script>
92 <script src="model.js"></script>
93 <script src="view.js"></script>
94 <script src="control.js"></script>
95 </body>
96 </html>
97

Click to close server
Ln 31, Col 23 Spaces: 4 UTF-8 CRLF Port: 5500 Quokka Prettier
```

```
File Edit Selection View Go Run Terminal Help Lab 1 march
index.html x JS scripts x JS model.js JS view.js JS controls.js
index.html JS scripts > ...
1 var stores = ['Fareway', 'Ace Hardware', 'Caseys', 'The Hatchery', 'Amundsens']
2 var sections = ['Produce', 'Meats', 'Cereal', 'Canned Goods', 'Frozen Foods', 'Dairy', 'Liquor', 'Tools', 'Clothing']
3
4 function clickedon() {
5   let rowcolids = ['itemname', 'qty', 'store', 'category', 'price']
6   let vals = []
7   for (let cid of rowcolids) {
8     vals.push(document.getElementById(cid).value)
9   }
10  makeRow(vals, document.getElementById("shoppinglist"))
11 }
12
13 function makeRow(valuelist, parent) {
14   let row = document.createElement("tr")
15   row.classList.add(document.getElementById("priority").value)
16   let cb = document.createElement("input")
17   cb.type = "checkbox"
18   cb.classList.add("form-control")
19   row.appendChild(cb)
20   for (let val of valuelist) {
21     let td = document.createElement("td")
22     td.innerHTML = val
23     row.appendChild(td)
24   }
25   parent.appendChild(row)
26 }
27
28 function populateSelect(selectId, slist) {
29   let sel = document.getElementById(selectId)
30   for (let s of slist) {
31     let opt = document.createElement("option")
32     opt.value = s
33     opt.innerHTML = s
34     sel.appendChild(opt)
35   }
36 }
37
38 $(document).ready(function () {
39   populateSelect('store', stores)
40   populateSelect('category', sections)
41 })
42
43
```

```
File Edit Selection View Go Run Terminal Help Lab 1 march
index.html JS script.js JS model.js X JS view.js JS control.js
() hintre
JS control.js
index.html
JS model.js
script.js
view.js

JS model.js > ShoppingList
'use strict';
class Item {
  constructor(name, quantity, priority, store, section, price) {
    this.name = name;
    this.quantity = quantity;
    this.priority = priority;
    this.store = store;
    this.section = section;
    this.price = price;
    this._purchased = false;
  }
  get purchased() {
    return this._purchased;
  }
  set purchased(mv) {
    this._purchased = mv;
    alert(`${this.name} was purchased`);
  }
}

class Subject {
  constructor() {
    this.handlers = [];
  }
  subscribe(fn) {
    this.handlers.push(fn);
  }
  unsubscribe(fn) {
    this.handlers = this.handlers.filter(
      function(item) {
        if (item !== fn) {
          return item;
        }
      }
    );
  }
};
```

```
File Edit Selection View Go Run Terminal Help Lab 1 march
index.html JS script.js JS model.js X JS view.js JS control.js
() hintre
JS control.js
index.html
JS model.js
script.js
view.js

JS model.js > ShoppingList
  subscribe(fn) {
    this.handlers.push(fn);
  }
  unsubscribe(fn) {
    this.handlers = this.handlers.filter(
      function(item) {
        if (item !== fn) {
          return item;
        }
      }
    );
  }
  publish(msg, someobj) {
    var scope = someobj || window;
    for (let fn of this.handlers) {
      fn(scope, msg);
    }
  }
}

class ShoppingList extends Subject {
  constructor() {
    super();
    this.newItems = [];
    this.oldItems = [];
  }
  addItem(it) {
    this.newItems.push(it);
    this.publish('newitem', this);
  }
}
```

```
File Edit Selection View Go Run Terminal Help Lab 1 march
index.html JS scripts JS models JS views JS controls JS
class ShoppingView {
  constructor(model) {
    // The bind() method creates a new function that, when called, has its this keyword set to the provided value.
    model.subscribe(this.redrawList.bind(this))
  }

  redrawList(shoppinglist, msg) {
    let tbl = document.getElementById("shoppinglist")
    tbl.innerHTML = ""
    for (let item of shoppinglist.newItems) {
      this.addRow(item, tbl)
    }
  }

  addRow(item, parent) {
    let row = document.createElement("tr")
    row.classList.add(item.priority)
    let cb = document.createElement("input")
    cb.type = "checkbox"
    cb.classList.add("form-control")
    cb.onclick = function() { item.purchased = true; }
    row.appendChild(cb)

    for (let val of ['name', 'quantity', 'store', 'section', 'price']) {
      let td = document.createElement("td")
      td.innerHTML = item[val]
      row.appendChild(td)
    }
    parent.appendChild(row)
  }
}

31 }
```

Ln 31, Col 2 Spaces: 4 UTF-8 CRLF JavaScript Port: 5500 Quokka Prettier

```
File Edit Selection View Go Run Terminal Help Lab 1 march
index.html JS scripts JS models JS views JS controls JS
var stores = ['Faraway', 'Ace Hardware', 'Caseys', 'The Hatchery', 'Amundsens']
var sections = ['Produce', 'Meats', 'Cereal', 'Canned Goods', 'Frozen Foods', 'Dairy', 'Liquor', 'Tools', 'Clothing']
var shoppingModel = new ShoppingList()
var myView = new ShoppingView(shoppingModel)

function clickedon() {
  let rowcolIds = ['itemname', 'qty', 'store', 'category', 'price', 'priority']
  let vals = {}
  for (let cid of rowcolIds) {
    vals[cid] = document.getElementById(cid).value;
  }
  let it = new Item(vals.itemname, vals.qty, vals.priority, vals.store, vals.category, vals.price)
  shoppingModel.addItem(it)
}

function populateSelect(selectId, slist) {
  let sel = document.getElementById(selectId, slist)
  for (let s of slist) {
    let opt = document.createElement("option")
    opt.value = s
    opt.innerHTML = s
    sel.appendChild(opt)
  }
}

$(document).ready(function () {
  populateSelect('store', stores)
  populateSelect('category', sections)
})

31 }
```

Ln 31, Col 3 Spaces: 4 UTF-8 CRLF JavaScript Port: 5500 Quokka Prettier

Output

Shopping List

HomePage 1Page 2Page 3

Item Name

aaloo

Quantity

1

Priority

medium

Store Name

Caseys

Store Section

Frozen Foods

Price

200

Add Item

	Item	Quantity	Store	Section	Price
<input checked="" type="checkbox"/>	Sabjiii	1	Fareway	Produce	3300
<input checked="" type="checkbox"/>	kaddu	1	Fareway	Produce	5000
<input type="checkbox"/>	sweets	1	Caseys	Liquor	5000
<input type="checkbox"/>	aaloo	1	Caseys	Frozen Foods	200

47.3 Kbps

0.0 Kbps

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