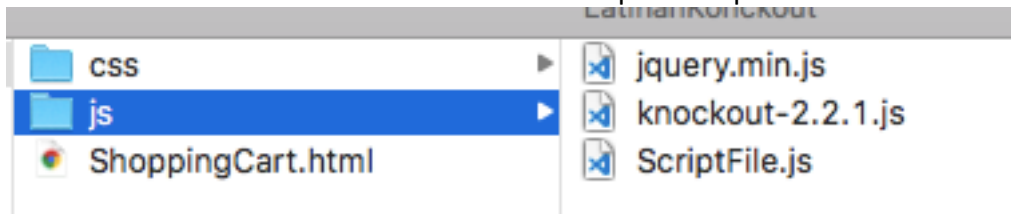# Latihan Membuat KnockOut

Pada latihan Kali ini kita akan membuat beberapa file seperti berikut :

1. Unduh file berikut, dan simpan dalam folder **js**
   http://ajax.googleapis.com/ajax/libs/jquery/1.11.1/jquery.min.js
   http://ajax.aspnetcdn.com/ajax/knockout/knockout-2.2.1.js

2. Isi file ShoppingCart.html dengan code berikut

```html
<!DOCTYPE html>
<html lang="en">
    <head>
        <meta charset="utf-8" />
        <title>Shopping cart</title>
        <script src="js/jquery.min.js"></script>
        <script src="js/knockout-2.2.1.js" type="text/javascript"></script>
        <link rel="stylesheet" type="text/css"
href="CSS/StyleSheet.css"></link>
        <script src="js/ScriptFile.js"> </script>


    </head>


    <body>
        <div class="liveExample">
            <div id="hh1">
                <h2>Shooping cart</h2>
            </div>

            <span class="space1"></span>Category <span
class="space2">Product</span> <span class="space3">Price</span><span
class="space4">Option</span><span class="space5">Quantity</span><span
class="space6">Sub-Total</span>
            <div>
                <!-- ko foreach:lines -->
                <!-- ko foreach:$parent.menus -->
            <select style="width: 150px" data-bind='options: categories,
optionsText: "name", value: $parent.category' ></select>

                <!-- /ko -->
                <!-- ko with: category -->   
    <select style="width: 150px" data-bind='options: products, optionsText:
"name", value: $parent.product'></select>
```

```html
                <!-- /ko -->
                <!-- ko with: product -->
          <span data-bind="text: price"></span>
      
                <select style="width:155px;" data-bind='options: options,
optionsText: "name"'></select>    
                <input data-bind="value: $parent.quantity, valueUpdate:
'keyup'" />
                <!-- /ko -->
      <span style="width:155px;" data-bind="text:
subtotal"></span>           
   
          <a href="#" data-bind="click:
$parent.removeLine">Remove</a><br />
                <!-- /ko -->
            </div>
            <p>
                <b>Total Price: <span data-bind="text: grandTotal">
</span></b>           
   
                <button data-bind="click: addLine">Add Product</button>



            </p>




        </div>

    </body>
</html>
```

3. Isi File StyleSheet.css dengan code berikut

```css
body { font-family: arial; font-size: 14px; }

.liveExample { padding: 1em; background-color: #EEEEDD; border: 1px solid #CCC;
max-width: 972px; margin:0 auto; padding: 20px }
.liveExample input { font-family: Arial; }

#hh1{ width:400px; margin: 20px auto}
.space1{ padding: 0 1px;
}
.space2{ margin: 0 122px;}
.space3{ margin-left:-10px;}
.space4{ margin-left: 30px;}
.space5{ margin-left: 135px;}
.space6{ margin-left: 115px;}
```

4. Isi file ScriptFile.js dengan code berikut

```javascript
$(function() {



    function Option(name, quantity) {
        var self = this;
        self.name = name;
        self.quantity = ko.observable(quantity);
    }


    function Product(name, price, quantity, options) {
        var self = this;
        self.name = ko.observable(name);
        self.price = price;
        self.quantity = ko.observable(quantity);
        self.options =
ko.observableArray(ko.utils.arrayMap(options, function(option) {
            return new Option(option.name, option.quantity);
        }));
        self.addOption = function(name, quantity) {
            self.options.push(new Option(name, quantity));
        };
    }

    function Category(name, products) {
        var self = this;
        self.name = name;
        self.products =
ko.observableArray(ko.utils.arrayMap(products, function(product) {
            return new Product(product.name, product.price,
product.quantity, product.options);
        }));
    }


    function Menu(categories) {
        var self = this;
        self.categories =
ko.observableArray(ko.utils.arrayMap(categories, function(category) {
            return new Category(category.name, category.products);
        }));

        self.addCategory = function(name) {
            self.categories.push(new Category(name));
        };
    }
```

```javascript
            function CartLine() {
                var self = this;
                self.category = ko.observable();
                self.product = ko.observable();
                self.quantity = ko.observable(1);
                self.subtotal = ko.computed(function() {
                    return self.product() ? self.product().price *
parseInt("0" + self.quantity(), 10) : 0;
                });
                self.category.subscribe(function() {
                    self.product(undefined);
                });
            }


            function ViewModel(menus) {
                var self = this;
                self.lines = ko.observableArray([new CartLine()]);
                self.menus = ko.utils.arrayMap(menus, function(menu) {
                    return new Menu(menu.categories);
                });
                self.addLine = function() {
                    self.lines.push(new CartLine())
                };
                self.removeLine = function(line) {
                    self.lines.remove(line)
                };
                self.grandTotal = ko.computed(function() {
                    var total = 0;
                    $.each(self.lines(), function() {
                        total += this.subtotal()
                    })
                    return total;
                });
            }
        ko.applyBindings(new ViewModel(data));

        });

        var data = [{
            "categories": [
                {
                "name": "Drinks",
                "products": [{
                        "name": "Coffee",
                        "price": "5.00",
                        "quantity": "0",
                        "options": [{
                            "name": "Sugar",
                            "quantity": "0"
```

```
            },
            {
                "name": "Cream",
                "quantity": "0"
            }
        ]},
    {
        "name": "Tea",
        "price": "3.00",
        "quantity": "0",
        "options": [{
            "name": "Sugar",
            "quantity": "0"
        },
        {
            "name": "Milk",
            "quantity": "0"
        }
        ]}
    ]},
{
    "name": "Food",
    "products": [
        {
        "name": "Donut",
        "price": "6.00",
        "quantity": "0",
        "options": [
            {
            "name": "Chocolate",
            "quantity": "0"},
        {
            "name": "Dutchie",
            "quantity": "0"}
        ]},
    {
        "name": "Muffin",
        "price": "7.00",
        "quantity": "0",
        "options": [
            {
            "name": "Bran",
            "quantity": "0"},
        {
            "name": "Carrot",
            "quantity": "0"}
        ]}
    ]}

]}];
```

OUTPUT

Shooping cart

Category	Product	Price	Option	Quantity	Sub-Total	
Food	Donut	6.00	Chocolate	3	18	Remove
Drinks	Coffee	5.00	Sugar	1	5	Remove

Total Price: 23 [Add Product]