



ReverseAJAX

권기웅

1. MongoDB 기동

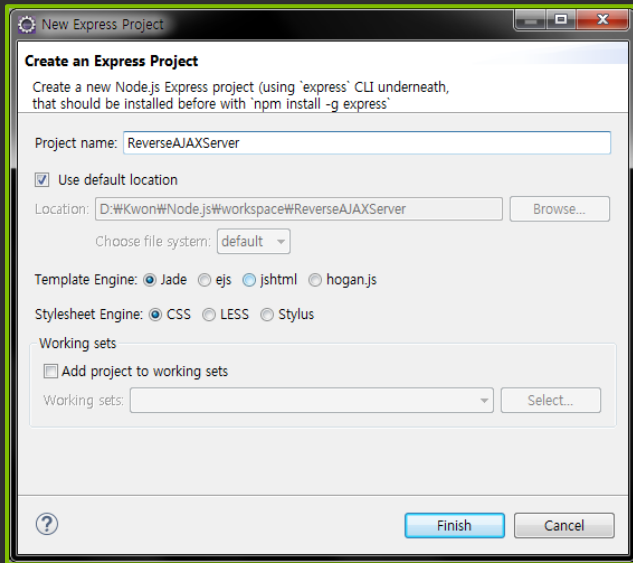
1.1 MongoDB 기동

```
C:\Windows\system32\cmd.exe - mongod --dbpath d:\kwon\db  
  
C:\>cd C:\Program Files\MongoDB\Server\3.0\bin  
  
C:\Program Files\MongoDB\Server\3.0\bin>mongod --dbpath d:\kwon\db  
2015-07-27T13:32:27.096+0900 I CONTROL Hotfix KB2731284 or later update is not  
installed, will zero-out data files  
2015-07-27T13:32:27.254+0900 I JOURNAL [initandlisten] journal dir=d:\kwon\db\j  
ournal
```



2. 서버

2.1 Node.js Express Project 작성



2.2 패키지 설치

2.2.1 명령 프롬프트에서 현재 프로젝트 위치로 이동

```
C:\Windows\system32\cmd.exe
D:\>cd D:\Kwon\Node.js\workspace\ReverseAJAXServer
D:\Kwon\Node.js\workspace\ReverseAJAXServer>
```

2.2.2 mongojs, socket.io 패키지 설치

npm install mongojs

```
C:\Windows\system32\cmd.exe
D:\Kwon\Node.js\workspace\ReverseAJAXServer>npm install mongojs
-
> kerberos@0.0.12 install D:\Kwon\Node.js\workspace\ReverseAJAXServer\node_modules\mongojs\node_modules\mongodb-core\node_modules\kerberos
> (node-gyp rebuild 2> builderror.log) || (exit 0)
```

npm install socket.io

```
C:\Windows\system32\cmd.exe
D:\Kwon\Node.js\workspace\ReverseAJAXServer>npm install socket.io
#
> bufferutil@1.1.0 install D:\Kwon\Node.js\workspace\ReverseAJAXServer\node_modules\socket.io\node_modules\engine.io\node_modules\ws\node_modules\bufferutil
> node-gyp rebuild
```

2.2.3 명령 프롬프트 온 감에 실행도

```
C:\Windows\system32\cmd.exe - nodemon app.js
D:\Kwon\Node.js\workspace\ReverseAJAXServer>nodemon app.js
27 Jul 14:19:41 - [nodemon] v1.3.8
27 Jul 14:19:41 - [nodemon] to restart at any time, enter `rs`
27 Jul 14:19:41 - [nodemon] watching: *.*
27 Jul 14:19:41 - [nodemon] starting `node app.js`
27 Jul 14:19:42 - [nodemon] clean exit - waiting for changes before restart
```



2.3 소스

2.3.1 AJAX 준비

```
app.get('/getAllProduct', function(req, res){
  var db = require('mongojs')('172.16.101.141/kwon',['product']);
  var cb = req.query.callback;

  db.product.find(function(err, data){
    res.send(cb+'('+JSON.stringify(data)+')');
  });
});

app.get('/regProduct', function(req, res){
  var db = require('mongojs')('172.16.101.141/kwon',['product']);
  var cb = req.query.callback;
  var n = req.query.name;
  var p = req.query.price * 1;

  db.product.save({name:n, price:p}, function(err, data){
    res.send(cb+'('+JSON.stringify(data)+')');
  });
});
app.listen(9898);
```



2.3.2 웹소켓 구현 추가

```
app.get('/getAllProduct', function(req,res){
  var db = require('mongojs')('172.16.101.141/kwon',['product']);
  var cb = req.query.callback;
  db.product.find(function(err, data){
    res.send(cb+'('+JSON.stringify(data)+')');
  });
});

var io = require('socket.io')();
io.listen(9999);

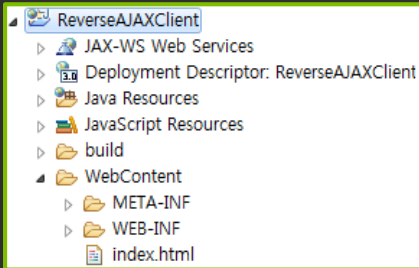
app.get('/regProduct', function(req,res){
  var db = require('mongojs')('172.16.101.141/kwon',['product']);
  var cb = req.query.callback;
  var n = req.query.name;
  var p = req.query.price * 1;

  db.product.save({name:n, price:p}, function(err, data){
    db.product.find(function(err, productData){
      io.sockets.emit('productData', productData);
    });
    res.send(cb+'('+JSON.stringify(data)+')');
  });
});
app.listen(9898);
```



3. 클라이언트

3.1 Dynamic Web Project 작성



3.2 jQueryMobile 장착(charset 은 UTF-8 로)

```
<!DOCTYPE html>
<html>
<head>
<meta charset="utf-8">
<title>Insert title here</title>
<link rel="stylesheet" href="http://code.jquery.com/mobile/1.3.2/jquery.mobile-1.3.2.min.css" />
<script src="http://code.jquery.com/jquery-1.9.1.min.js"></script>
<script src="http://code.jquery.com/mobile/1.3.2/jquery.mobile-1.3.2.min.js"></script>
<script>
    $(document).ready(function(){
        });
</script>
</head>
```

```
<body>
    <div data-role="page">
        <div data-role="header" data-theme="b">
            <h1>상품</h1>
        </div>
        <div data-role="content">
            품명 <input id="name"> 가격 <input id="price">
            <button data-theme="b">상품등록</button>
            <hr>
            <ul data-role="listview" data-inset="true">
            </ul>
        </div>
    </div>
</body>
</html>
```



3.3 INSERT, SELECT

```
$(document).ready(function(){
    $("#button").click(function(){
        var name = $("#name").val();
        var price = $("#price").val();
        var url = "http://172.16.101.141:9898/regProduct";
        url += "?name=" + name + "&price=" + price;
        url += "&callback=?";
        $.getJSON(url, function(data){});
        $("#name").val(""); $("#price").val();
    });

    $.getJSON("http://172.16.101.141:9898/getAllProduct?callback=?", function(data){
        $("#ul").empty();
        $.each(data, function(i, p){
            var br = $("#<br>");
            $("#<li></li>").append(p.name, br, p.price).appendTo($("#ul"));
        });
        $("#ul").listview("refresh");
    });
});
```

3.4 웹소켓 기능 추가

```
<link rel="stylesheet" href="http://code.jquery.com/mobile/1.3.2/jquery.mobile-1.3.2.min.css" />
<script src="http://code.jquery.com/jquery-1.9.1.min.js"></script>
<script src="http://code.jquery.com/mobile/1.3.2/jquery.mobile-1.3.2.min.js"></script>
<script src="http://172.16.101.141:9999/socket.io/socket.io.js"></script>
<script>
    $(document).ready(function(){
        var socket = io.connect('http://172.16.101.141:9999');

        socket.on('productData', function(productData){
            $("#ul").empty();
            $.each(productData, function(i, p){
                var br = $("#<br>");
                $("#<li></li>").append(p.name, br, p.price).appendTo($("#ul"));
            });
            $("#ul").listview("refresh");
        });

        $("#button").click(function(){
```



4. 실행

