Spring

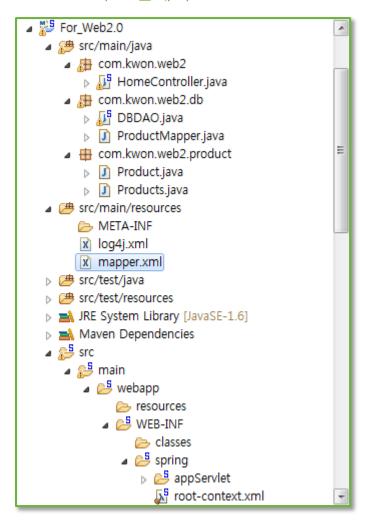
# For Web2.0





# 1.XML 응답하기

# 1.1 프로젝트 전체 구조







# 1.2 mapper

#### 1.2.1 mapper.xml

## 1.2.2 ProductMapper.java

```
public interface ProductMapper {
    public abstract List<Product> getProduct();
}
```





### 1.3 JavaBean

## 1.3.1 Product.java

```
@XmlRootElement(name = "product")
public class Product {
    private String p_id;
    private String p_name;
    private BigDecimal p_price;

    public Product() {}

    public String getP_id() {return p_id;}

    @XmlElement
    public void setP_id(String p_id) {this.p_id = p_id;}

    public String getP_name() {return p_name;}

    @XmlElement
    public String getP_name(String p_name) {this.p_name = p_name;}

    public BigDecimal getP_price() {return p_price;}

    @XmlElement
    public bigDecimal getP_price() {return p_price;}

    @XmlElement
    public void setP_price(BigDecimal p_price) {this.p_price = p_price;}}
```





## 1.3.2 Products.java

```
@XmlRootElement(name = "products")
public class Products {
    private List<Product> products;

    public Products() {}

    public Products(List<Product> products) {
        super();
        this.products = products;
    }

    public List<Product> getProducts() {return products;}

    @XmlElement
    public void setProducts(List<Product> products) {this.products = products;}
}
```

#### 1.4 DBDAO

### 1.4.1 DBDAO.java

```
@Service
public class DBDAO {

    @Autowired
    private SqlSession ss;

    public Products getProduct() {
        ProductMapper pm = ss.getMapper(ProductMapper.class);
        return new Products(pm.getProduct());
    }
}
```





## 1.5 Controller

## 1.5.1 HomeController.java

```
@Controller
public class HomeController {

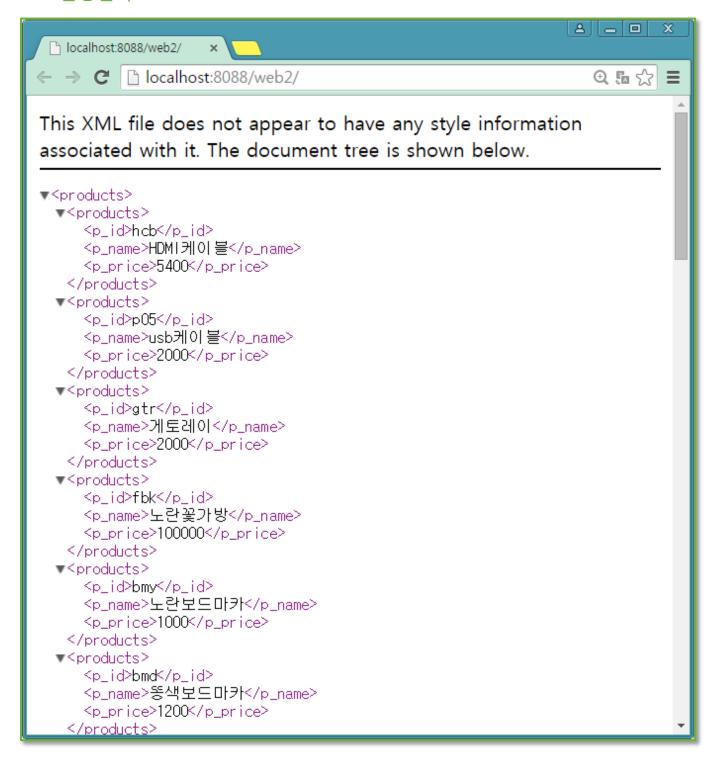
    @Autowired
    private DBDAO d;

    @RequestMapping(value = "/", method = RequestMethod.GET)
    public @ResponseBody Products getXML() {
        return d.getProduct();
    }
}
```





## 1.6 실행결과







# 2.JSON 응답하기

2.1 Maven 으로 jackson-mapper-asl.jar 추가

2.2 src/main/webapp/WEB-INF/spring/root-context.xml 에 jackson 추가

<beans:bean id="jackson" class="org.springframework.http.converter.json.MappingJacksonHttpMessageConverter">
</beans:bean>

# 2.3 JavaBean 에 @XML~~~ 삭제

## 2.3.1 Product.java

```
public class Product {
    private String p_id;
    private String p_name;
    private BigDecimal p_price;

    public Product() {}

    public String getP_id() {return p_id;}
    public void setP_id(String p_id) {this.p_id = p_id;}
    public String getP_name() {return p_name;}
    public void setP_name(String p_name) {this.p_name = p_name;}
    public BigDecimal getP_price() {return p_price;}
    public void setP_price(BigDecimal p_price) {this.p_price = p_price;}
}
```





#### 2.3.2 Products.java

```
public class Products {
    private List<Product> products;

public Products() {}

public Products(List<Product> products) {
    super();
    this.products = products;
}

public List<Product> getProducts() {return products;}

public void setProducts(List<Product> products) {this.products = products;}
}
```

### 2.4 Controller

### 2.4.1 HomeController.java

```
@Controller
public class HomeController {

    @Autowired
    private DBDAO d;

    @RequestMapping(value = "/", method = RequestMethod.GET)
    public @ResponseBody Products getJSON() {
        return d.getProduct();
    }
}
```





## 2.5 실행결과

```
A - 0 X
  ocalhost:8088/web2/
← → C | localhost:8088/web2/
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                                                              + - View source 🗱 🛓
  products: [
      - {
           p_id: "hcb",
           p_name: "HDMI케이블",
           p_price: 5400
       },
     - {
           p_id: "p05",
           p_name: "usb케이블",
           p_price: 2000
       },
     - {
           p_id: "gtr",
           p_name: "게토레이",
           p_price: 2000
       },
     - {
           p_id: "fbk",
           p_name: "노란꽃가방",
           p_price: 100000
       },
     - {
           p_id: "bmy",
           p_name: "노란보드마카",
           p_price: 1000
       },
      - {
           p_id: "bmd",
           p_name: "똥색보드마카",
           p_price: 1200
       },
      - {
           p_id: "p12",
           p_name: "리모콘",
products
```





## 2.6 JSONP

### 2.6.1 HomeController.java 에 추가

```
@RequestMapping(value = "/jsonp", method = RequestMethod.GET)
public @ResponseBody String getJSONP(
          @RequestParam(value = "callback") String cb) {

    try {
        Products p = d.getProduct();
        ObjectMapper om = new ObjectMapper();
        String res = cb + "(" + new String(om.writeValueAsBytes(p), "8859_1") + ")";

    return res;
    } catch (Exception e) {
        // TODO Auto-generated catch block
        e.printStackTrace();
        return null;
    }
}
```





#### 2.6.2 실행결과

```
A - 0 X
  localhost:8088/web2/json ×
← → C | localhost:8088/web2/jsonp?callback=test
                                                                           ⊕ ☆ ≡
                                                                + - View source 🗱 📤
test(
  - products: [
      - {
           p_id: "hcb",
            p_name: "HDMI케이블",
            p_price: 5400
       },
      - {
           p_id: "p05",
            p_name: "usb케이블",
            p_price: 2000
       },
      - {
           p_id: "gtr",
            p_name: "게토레이",
            p_price: 2000
       },
     - {
            p_id: "fbk",
            p_name: "노란꽃가방",
            p_price: 100000
       },
     - {
            p_id: "bmy",
           p_name: "노란보드마카",
            p_price: 1000
        },
            p_id: "bmd",
            p_name: "똥색보드마카",
            p_price: 1200
       },
           p_id: "p12",
products
```

