



Spring

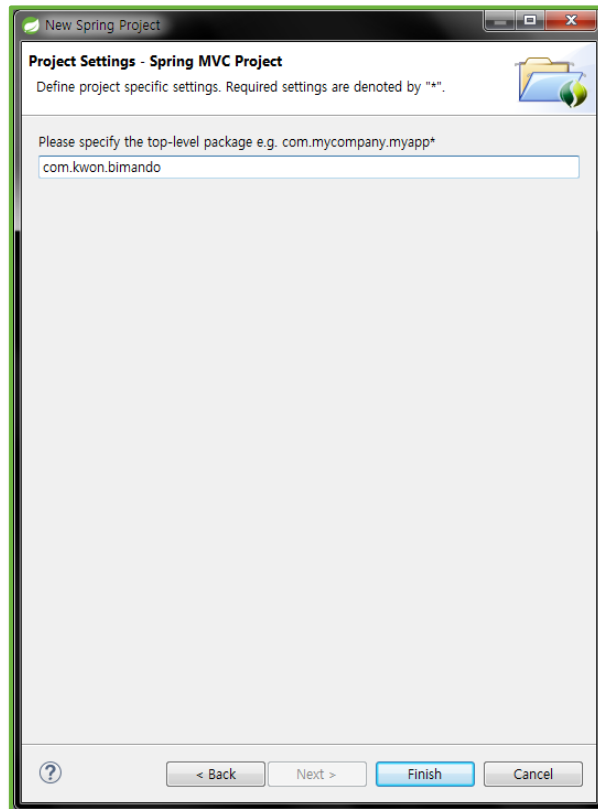
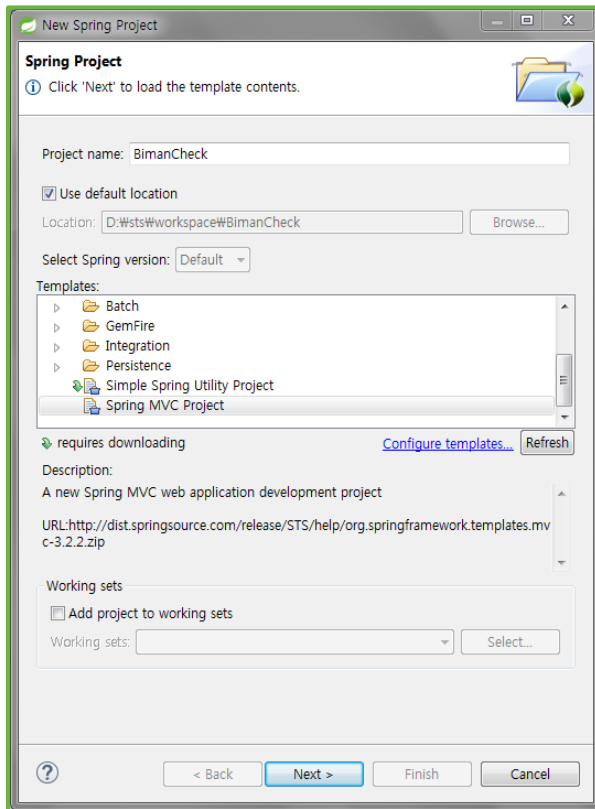
MVC



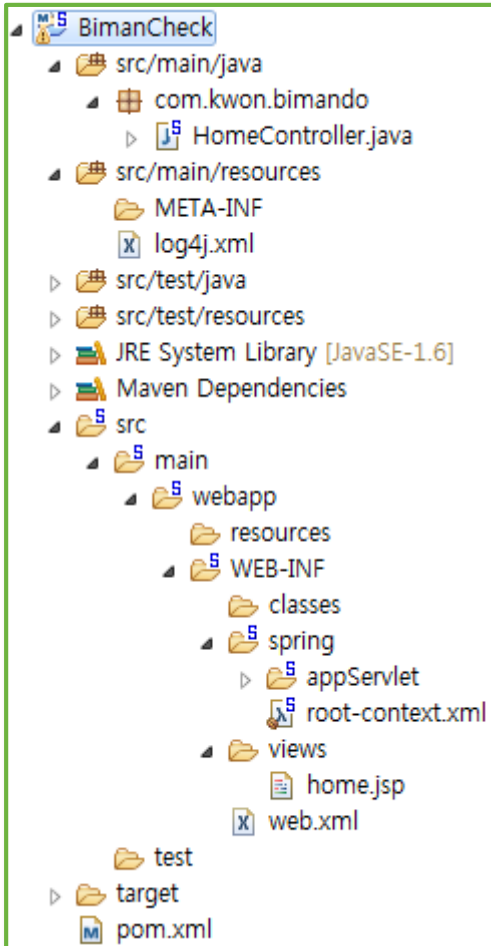
권기웅

1. Spring MVC

1.1 프로젝트 작성



1.2 프로젝트 구조



src/main/java/

- .java

src/main/resources/

- Spring Bean Configuration File

src/main/webapp/resources

- .css, 그림파일, ...

src/main/webapp/WEB-INF/spring/root-context.xml

- 스프링 설정파일
- MyBatis DB 연결정보
- Autowired singleton 객체

src/main/webapp/WEB-INF/views/

- .jsp

src/main/webapp/WEB-INF/web.xml

- 서블릿 설정파일
- 요청 인코딩 방식 설정



2. 요청 파라미터 한글처리

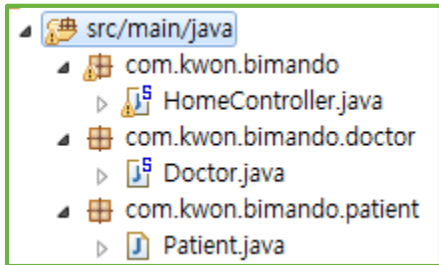
2.1 web.xml 에 추가

```
<filter>
  <filter-name>encodingFilter</filter-name>
  <filter-class>org.springframework.web.filter.CharacterEncodingFilter</filter-class>
  <init-param>
    <param-name>encoding</param-name>
    <param-value>euc-kr</param-value>
  </init-param>
</filter>
<filter-mapping>
  <filter-name>encodingFilter</filter-name>
  <url-pattern>*</url-pattern>
</filter-mapping>
```



3. Model

3.1 프로젝트 구조



3.2 클래스

3.2.1 Patient

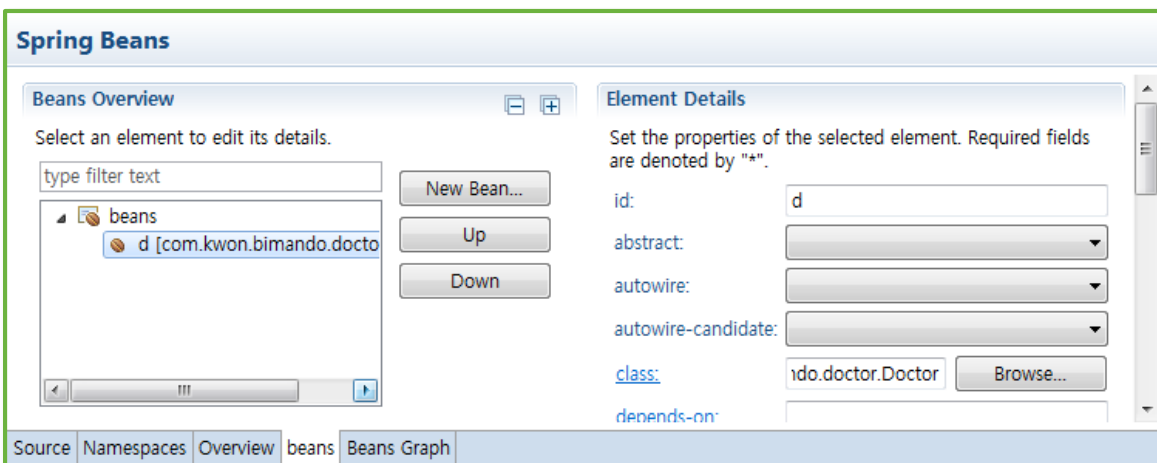
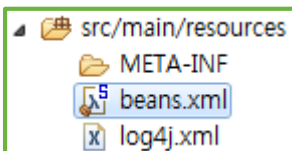
```
public class Patient {  
    private String name;  
    private int height;  
    private double weight;  
    private double stdWeight;  
    private double bimando;  
    private String result;  
  
    public Patient(String name, int height, double weight) {  
        super();  
        this.name = name;  
        this.height = height;  
        this.weight = weight;  
    }  
  
    public String getName() {  
        return name;  
    }  
  
    public void setName(String name) {  
        this.name = name;  
    }  
}
```



3.2.2 Doctor

```
public class Doctor {  
    public void calculate(Model m, Patient p) {  
        double stdWeight = (p.getHeight() - 100) * 0.9;  
        double bimando = (p.getWeight() / stdWeight) * 100;  
  
        String result = "정상";  
        if (bimando > 120) {  
            result = "비만";  
        } else if (bimando < 80) {  
            result = "저체중";  
        }  
  
        p.setStdWeight(stdWeight);  
        p.setBimando(bimando);  
        p.setResult(result);  
  
        m.addAttribute("patient", p);  
    }  
}
```

3.3 beans.xml



4.Controller

```
@Controller // 컨트롤러로 등록
public class HomeController {
    private DefaultListableBeanFactory dlbf;

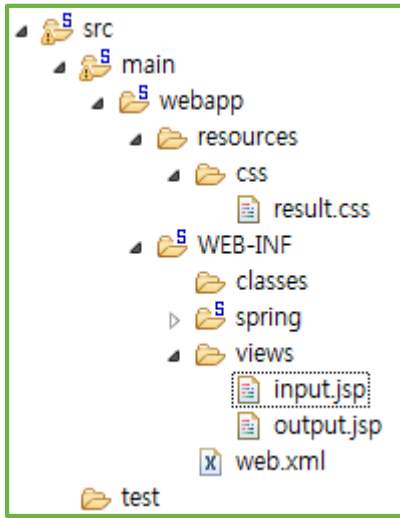
    // 요청 처리 등록
    @RequestMapping(value = "/", // 요청주소
        method = RequestMethod.GET) //GET방식
    public String entry() {
        dlbf = new DefaultListableBeanFactory();
        XmlBeanDefinitionReader xbdr = new XmlBeanDefinitionReader(dlbf);
        xbdr.loadBeanDefinitions(new ClassPathResource("beans.xml"));
        return "input"; //포워딩할 .jsp파일명
    }

    @RequestMapping(value="/getResult.do", method=RequestMethod.POST)
    public String getResult(Model m, // Attribute 처리를 위해
        @RequestParam(value="name") String name, // @RequestParam(value="파라미터명") 자료형 변수명
        @RequestParam(value="height") int height, @RequestParam(value="weight") double weight){
        Patient p = new Patient(name, height, weight);
        Doctor d = dlbf.getBean("d", Doctor.class);
        d.calculate(m, p);
        return "output";
    }
}
```



5.View

5.1 프로젝트 구조



5.2 .jsp

5.2.1 input.jsp

```
<body>
  <form action="getResult.do" method="post">
    이름 : <input name="name"><p>
    키 : <input name="height"><p>
    몸무게 : <input name="weight"><p>
    <input type="submit" value="결과보기">
  </form>
</body>
```

5.2.2 output.jsp

```
<%@ page language="java" contentType="text/html; charset=EUC-KR"
    pageEncoding="EUC-KR"%>
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/h
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=EUC-KR">
<title>Insert title here</title>
<link rel="stylesheet" href="resources/css/result.css">
</head>
<body>
  <table cellpadding="0">
    <tr><td colspan="2">결과</td></tr>
    <tr><td>이름</td><td class="contentTd">${patient.name }</td></tr>
    <tr><td>키</td><td class="contentTd">${patient.height }</td></tr>
    <tr><td>몸무게</td><td class="contentTd">${patient.weight }</td></tr>
    <tr><td>표준체중</td><td class="contentTd">${patient.stdWeight }</td></tr>
    <tr><td>비만도</td><td class="contentTd">${patient.bimando }</td></tr>
    <tr><td colspan="2" class="contentTd">${patient.result }</td></tr>
  </table>
</body>
</html>
```



5.3 .css

```
@CHARSET "EUC-KR";  
table{  
    width:500px;  
    background-color: #003399;  
    color:white;  
}  
.contentTd{  
    background-color:#C4DEFF;  
    color:black;  
}
```

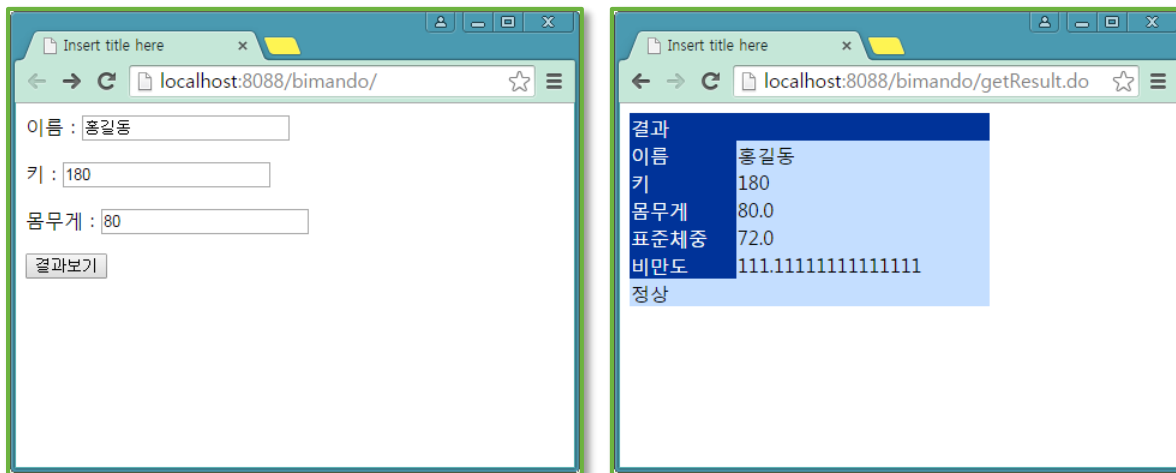


6. 실행

6.1 실행방법

프로젝트 우클릭 - Run As - Run on server

6.2 실행결과



결과	
이름	홍길동
키	180
몸무게	80.0
표준체중	72.0
비만도	111.11111111111111
정상	

7. 파일 업로드

7.1 cos.jar 위치

```
<dependency>
  <groupId>servlets.com</groupId>
  <artifactId>cos</artifactId>
  <version>05Nov2002</version>
</dependency>
```

