240221 스프링 프레임워크 3일차 :: 츄르 없는 집

1. web.xml

```xml
1  <?xml version="1.0" encoding="UTF-8"?>
2  <web-app version="2.5" xmlns="http://java.sun.com/xml/ns/javaee"
3    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
4    xsi:schemaLocation="http://java.sun.com/xml/ns/javaee https://java.sun.com/xml/ns/javaee/web-app_2_5.xsd">
5
6
7    <context-param>
8      <param-name>contextConfigLocation</param-name>
9      <param-value>/WEB-INF/spring/root-context.xml</param-value>
10   </context-param>
11
12   <listener>
13     <listener-class>org.springframework.web.context.ContextLoaderListener
14     </listener-class>
15   </listener>
16
17   <servlet>
18     <servlet-name>appServlet</servlet-name>
19     <servlet-class>org.springframework.web.servlet.DispatcherServlet
20     </servlet-class>
21     <init-param>
22       <param-name>contextConfigLocation</param-name>
23       <param-value>
24         /WEB-INF/spring/appServlet/servlet-context.xml
25       </param-value>
26     </init-param>
27     <load-on-startup>1</load-on-startup>
28   </servlet>
29
30   <servlet-mapping>
31     <servlet-name>appServlet</servlet-name>
32     <url-pattern>/</url-pattern>
33   </servlet-mapping>
```

2. servlet-context

```xml
1  <?xml version="1.0" encoding="UTF-8"?>
2  <beans:beans xmlns="http://www.springframework.org/schema/mvc"
3      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
4      xmlns:p="http://www.springframework.org/schema/p"
5      xmlns:beans="http://www.springframework.org/schema/beans"
6      xmlns:context="http://www.springframework.org/schema/context"
7      xsi:schemaLocation="http://www.springframework.org/schema/mvc
8          https://www.springframework.org/schema/mvc/spring-mvc.xsd
9          http://www.springframework.org/schema/beans
10         https://www.springframework.org/schema/beans/spring-beans.xsd
11         http://www.springframework.org/schema/context
12         https://www.springframework.org/schema/context/spring-context.xsd">
13
14     <annotation-driven />
15
16     <resources mapping="/resources/**" location="/resources/" />
17
18     <context:component-scan base-package="com.springstudy.bbs" />
19
20     <beans:bean id="viewResolver" class=
21         "org.springframework.web.servlet.view.InternalResourceViewResolver"
22         p:viewClass="org.springframework.web.servlet.view.JstlView"
23         p:prefix="/WEB-INF/index.jsp?body=views/"
24         p:suffix=".jsp"/>
25
26     <context:component-scan base-package="com.springstudy.bbs" />
27
28     <view-controller path="/writeForm" view-name="writeForm" />
29     <view-controller path="/boardWrite" view-name="writeForm" />
30
31     <view-controller path="/" view-name="redirect:/boardList" />
32     <redirect-view-controller path="/index" redirect-url="/boardList"/>
33     <redirect-view-controller path="/default" redirect-url="/boardList"/>
34
35     <redirect-view-controller path="/write" redirect-url="/writeForm"/>
36  </beans:beans>
```

3. root-context

```xml
1  <?xml version="1.0" encoding="UTF-8"?>
2  <beans xmlns="http://www.springframework.org/schema/beans"
3     xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
4     xmlns:c="http://www.springframework.org/schema/c"
5     xmlns:p="http://www.springframework.org/schema/p"
6     xmlns:tx="http://www.springframework.org/schema/tx"
7     xsi:schemaLocation="http://www.springframework.org/schema/beans
8         https://www.springframework.org/schema/beans/spring-beans.xsd
9         http://www.springframework.org/schema/tx
10        http://www.springframework.org/schema/tx/spring-tx-4.3.xsd">
11
12     <import resource="classpath:datasource/dbcpdatasource.xml" />
13
14     <bean id="sqlSessionFactory"
15         class="org.mybatis.spring.SqlSessionFactoryBean">
16         <property name="dataSource" ref="dataSource" />
17         <property name="mapperLocations"
18             value="classpath:repository/mappers/**/*Mapper.xml" />
19         <property name="typeAliasesPackage"
20             value="com.springstudy.bbs.domain" />
21     </bean>
22
23     <bean id="sqlSessionTemplate"
24         class="org.mybatis.spring.SqlSessionTemplate"
25         c:sqlSessionFactory-ref="sqlSessionFactory" />
26
27     <bean id="transactionManager"
28         class="org.springframework.jdbc.datasource.DataSourceTransactionManager"
29         p:dataSource-ref="dataSource"/>
30
31  </beans>
```

4. datasource.properties

```
1 ## ######################################
2 ## MySQL DB와 DBCP를 사용하기 위한 설정
3 ##
4 db.driverClassName=com.mysql.cj.jdbc.Driver
5 db.url=jdbc:mysql://localhost:3306/spring?useSSL=false&allowPublicKeyRetrieval=true&useUnicode=true&characterEncoding=utf8
6 db.username=root
7 db.password=12345678
8 ## DBCP가 시작될 때 생성할 커넥션 수
9 db.initialSize=5
10 ## DBCP에서 동시에 제공할 최대 커넥션 수 commons 2.0
11 db.maxTotal=10
12 ## 휴먼 상태에서 유지할 최대 커넥션 수
13 db.maxIdle=3
```

5. datasource

```xml
1  <?xml version="1.0" encoding="UTF-8"?>
2  <beans xmlns="http://www.springframework.org/schema/beans"
3      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
4      xmlns:context="http://www.springframework.org/schema/context"
5      xsi:schemaLocation="http://www.springframework.org/schema/beans
6          http://www.springframework.org/schema/beans/spring-beans-4.2.xsd
7          http://www.springframework.org/schema/context
8          http://www.springframework.org/schema/context/spring-context-4.2.xsd">
9
10     <context:property-placeholder
11         location="classpath:datasource/dbcpdatasource.properties" />
12
13     <bean id="dataSource" destroy-method="close"
14         class="org.apache.commons.dbcp2.BasicDataSource" >
15         <property name="driverClassName" value="${db.driverClassName}" />
16         <property name="url" value="${db.url}" />
17         <property name="username" value="${db.username}" />
18         <property name="password" value="${db.password}" />
19         <property name="initialSize" value="${db.initialSize}" />
20         <property name="maxTotal" value="${db.maxTotal}" />
21         <property name="maxIdle" value="${db.maxIdle}" />
22     </bean>
23 </beans>
```

6. domain.Board

```java
1  package com.springstudy.bbs.domain;
2
3  import java.sql.Timestamp;
4
5  public class Board {
6
7      private int no;
8      private String title;
9      private String writer;
10     private String content;
11     private Timestamp regDate;
12     private int readCount;
13     private String pass;
14     private String file1;
15
16     public Board() {}
```

Source	Alt+Shift+S >	Toggle Comment	Ctrl+7
Refactor	Alt+Shift+T >	Remove Block Comment	Ctrl+Shift+\
Local History	>	Generate Element Comment	Alt+Shift+J
References	>	Correct Indentation	Ctrl+I
Declarations	>	Format	Ctrl+Shift+F
Add to Snippets...		Format Element	
AspectJ Refactoring	>	Add Import	Ctrl+Shift+M
Run As	>	Organize Imports	Ctrl+Shift+O
Debug As	>	Sort Members...	
Profile As	>	Clean Up...	
Team	>	Override/Implement Methods...	
Compare With	>	Generate Getters and Setters...	
Replace With	>	Generate Delegate Methods...	
Validate		Generate hashCode() and equals()...	
Preferences...		Generate toString()...	
		Generate Constructor using Fields...	

7. BoardMapper

```xml
1  <?xml version="1.0" encoding="UTF-8"?>
2  <!DOCTYPE mapper PUBLIC "-//mybatis.org//DTD Mapper 3.0//EN"
3      "http://mybatis.org/dtd/mybatis-3-mapper.dtd">
4
5  <mapper namespace="com.springstudy.bbs.mapper.BoardMapper" >
6
7      <select id="boardList" resultType="Board" resultMap="boardResultMap">
8          SELECT
9              *
10         FROM  springbbs
11         ORDER BY no DESC
12     </select>
13
14     <resultMap id="boardResultMap" type="Board">
15         <id property="no" column="no" />
16         <result property="title" column="title" />
17         <result property="writer" column="writer" />
18         <result property="content" column="content" />
19         <result property="regDate" column="reg_date" />
20         <result property="readCount" column="read_count" />
21         <result property="pass" column="pass" />
22         <result property="file1" column="file1" />
23     </resultMap>
24
25 </mapper>
```

완성 소스에 있는 sql 파일 복붙하기

8. BoardDao

```
1  package com.springstudy.bbs.dao;
2
3⊖ import java.util.List;
4
5  import com.springstudy.bbs.domain.Board;
6
7  public interface BoardDao {
8
9      public abstract List<Board> boardList();
10     public abstract Board getBoard(int no);
11     public abstract void insertBoard(Board board);
12     public String isPassCheck(int no, String pass);
13     public abstract void updateBoard(Board board);
14     public abstract void deleteBoard(int no);
15
16 }
```

9. BoardDaoImpl

```
1  package com.springstudy.bbs.dao;
2
3⊕ import java.util.List;
10
11 @Repository
12 public class BoardDaoImpl implements BoardDao {
13
14     private final String NAME_SPACE = "com.springstudy.bbs.mapper.BoardMapper";
15
16     private SqlSessionTemplate sqlSession;
17
18⊖    @Autowired
19     public void setSqlSession(SqlSessionTemplate sqlSession) {
20         this.sqlSession = sqlSession;
21     }
22
23⊖    @Override
24     public List<Board> boardList(){
25         return sqlSession.selectList(NAME_SPACE + ".boardList");
26⊖    }
27
28 }
```

추가하면 오류가 뜰 텐데 커서를 올려서 Add unimplemented methods를 통해

추가하기

10. BoardService

```java
 1  package com.springstudy.bbs.service;
 2
 3⊖ import java.util.List;
 4
 5  import com.springstudy.bbs.domain.Board;
 6
 7  public interface BoardService {
 8
 9      public abstract List<Board> boardList();
10      public abstract Board getBoard(int no);
11      public abstract void insertBoard(Board board);
12      public String isPassCheck(int no, String pass);
13      public abstract void updateBoard(Board board);
14      public abstract void deleteBoard(int no);
15
16  }
```

11. BoardServiceImpl

```java
 1  package com.springstudy.bbs.service;
 2
 3⊕ import java.util.List;
10
11  @Service
12  public class BoardServiceImpl implements BoardService {
13
14⊖     @Autowired
15      private BoardDao boardDao;
16
17⊖     public void setBoardDao(BoardDao boardDao) {
18
19          this.boardDao = boardDao;
20
21      }
22
23⊖     @Override
24      public List<Board> boardList(){
25
26          return boardDao.boardList();
27      }
28
29  }
```

마찬가지로 Add unimplemented methods를 통해 추가하기

12. BoardController

```java
package com.springstudy.bbs.controller;

import java.util.List;

@Controller
public class BoardController {

    @Autowired
    private BoardService boardService;

    public void setBoardService(BoardService boardService) {
        this.boardService = boardService;
    }

    @RequestMapping(value = {"/boardList", "/list"}, method = RequestMethod.GET)
    public String boardList(Model model) {

        List<Board> bList = boardService.boardList();

        model.addAttribute("bList", bList);

        return "boardList";

    }
}
```

13. index

```jsp
<%@ page language = "java" contentType = "text/html: charset = UTF-8" pageEncoding = "UTF-8"%>
<!DOCTYPE html>
    <html>
        <head>
            <meta charset="utf-8">
            <meta name="viewport" content="width=device-width, initial-scale=1">
            <title>Spring MVC 게시판</title>
            <title>스프링 게시판</title>
            <link href="resources/bootstrap/bootstrap.min.css" rel="stylesheet" >
            <style>
            </style>
        <script src="resources/js/jquery-3.2.1.min.js"></script>
        <script src="resources/js/formcheck.js"></script>
    </head>
    <body>
        <div class="container">
            <%@ include file="template/header.jsp" %>
            <jsp:include page="${ param.body }" />
            <%@ include file="template/footer.jsp" %>
        </div>
        <script src="resources/bootstrap/bootstrap.bundle.min.js"></script>
    </body>
</html>
```

14. header

```jsp
1  <%@ page language="java" contentType="text/html; charset=UTF-8"
2     pageEncoding="UTF-8"%>
3  <%@ taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core" %>
4  <!-- header  -->
5  <div class="row border-bottom border-primary" id="global-header">
6     <div class="col-4">
7        <p><img src="https://via.placeholder.com/200x100"></p>
8     </div>
9     <div class="col-8">
10        <div class="row">
11           <div class="col">
12              <ul class="nav justify-content-end">
13                 <li class="nav-item">
14                    <a class="nav-link" href="#">로그인</a>
15                 </li>
16                 <li class="nav-item">
17                    <a class="nav-link" href="boardList">게시 글 리스트</a>
18                 </li>
19                 <li class="nav-item">
20                    <a class="nav-link" href="#">회원가입</a>
21                 </li>
22                 <li class="nav-item">
23                    <a class="nav-link" href="#">주문/배송조회</a>
24                 </li>
25                 <li class="nav-item">
26                    <a class="nav-link" href="#">고객센터</a>
27                 </li>
28              </ul>
29           </div>
30        </div>
31        <div class="row">
32           <div class="col text-end">로그인시 인사말 출력</div>
33        </div>
34     </div>
35  </div>
```

15. footer

```jsp
1  <%@ page language="java" contentType="text/html; charset=UTF-8"
2     pageEncoding="UTF-8"%>
3  <!-- footer -->
4  <div class="row border-top border-primary my-5" id="global-footer">
5     <div class="col text-center py-3">
6        <p>고객상담 전화주문:1234-5678 사업자등록번호 :111-11-123456
7        대표이사: 홍길동  통신판매업 서울 제 000000호<br/>
8        개인정보관리책임자:임꺽정 분쟁조정기관표시 : 소비자보호원, 전자거래분쟁중재위원회<br/>
9        Copyright (c) 2016 Spring2U Corp. All right Reserved.
10       </p>
11    </div>
12  </div>
```

16. boardList.jsp

복사해오기