Spring 개발구축

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Spring Eclipse 개발환경 구축

1. File > New > Maven Project
2. Create a simple project(skip archetype selection) 체크
3. Group Id, Artifact Id (프로젝트명), Package 입력
4. Pom 파일 수정
   a. properties 추가

```
<properties>
<project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
<!-- Test -->
<version.junit>4.11</version.junit>
<!-- Logging -->
<version.slf4j>1.7.5</version.slf4j>
<version.logback>1.0.13</version.logback>
<!-- Spring -->
<version.spring>3.2.5.RELEASE</version.spring>
<!-- Servlet -->
<version.servlet>2.5</version.servlet>
</properties>
```

   b. dependencies 추가

```
<dependencies>
 <!-- Spring -->
 <dependency>
  <groupId>org.springframework</groupId>
  <artifactId>spring-webmvc</artifactId>
  <version>${version.spring}</version>
  <exclusions>
   <exclusion>
    <artifactId>commons-logging</artifactId>
    <groupId>commons-logging</groupId>
   </exclusion>
  </exclusions>
 </dependency>
 <dependency>
  <groupId>org.springframework</groupId>
   <artifactId>spring-test</artifactId>
   <version>${version.spring}</version>
   <scope>test</scope>
```

```xml
  <exclusions>
   <exclusion>
    <artifactId>commons-logging</artifactId>
    <groupId>commons-logging</groupId>
   </exclusion>
  </exclusions>
</dependency>
<dependency>
 <groupId>org.springframework</groupId>
 <artifactId>spring-jdbc</artifactId>
 <version>${version.spring}</version>
</dependency>

<dependency>
 <groupId>com.oracle</groupId>
 <artifactId>ojdbc6</artifactId>
 <version>11.1.0.7.0</version>
</dependency>

<!-- Junit -->
<dependency>
 <groupId>junit</groupId>
 <artifactId>junit</artifactId>
 <version>${version.junit}</version>
 <scope>test</scope>
</dependency>

<!-- Logging with SLF4J & LogBack -->
<dependency>
 <groupId>org.slf4j</groupId>
 <artifactId>slf4j-api</artifactId>
 <version>${version.slf4j}</version>
</dependency>
<dependency>
 <groupId>org.slf4j</groupId>
 <artifactId>jcl-over-slf4j</artifactId>
 <version>${version.slf4j}</version>
 </dependency>
<dependency>
 <groupId>ch.qos.logback</groupId>
 <artifactId>logback-classic</artifactId>
 <version>${version.logback}</version>
</dependency>

<!-- SERVLET -->
<dependency>
 <groupId>javax.servlet</groupId>
 <artifactId>servlet-api</artifactId>
 <version>${version.servlet}</version>
 <scope>provided</scope>
</dependency>

<!-- MyBatis -->
<dependency>
 <groupId>org.mybatis</groupId>
 <artifactId>mybatis</artifactId>
 <version>${version.mybatis}</version>
</dependency>
<dependency>
```

```xml
  <groupId>org.mybatis</groupId>
  <artifactId>mybatis-spring</artifactId>
  <version>${version.mybatis.spring}</version>
</dependency>

<dependency>
  <groupId>org.pojomatic</groupId>
  <artifactId>pojomatic</artifactId>
  <version>1.0</version>
```

```
          </dependency>
        </dependencies>
```

c. build 수정

```
<build>
 <finalName>restapp</finalName>
 <plugins>
  <plugin>
   <groupId>org.apache.maven.plugins</groupId>
   <artifactId>maven-compiler-plugin</artifactId>
   <version>3.1</version>
   <configuration>
    <source>1.6</source>
    <target>1.6</target>
    <encoding>UTF-8</encoding>
   </configuration>
  </plugin>
  <plugin>
   <groupId>org.apache.maven.plugins</groupId>
   <artifactId>maven-resources-plugin</artifactId>
   <version>2.6</version>
   <configuration>
    <encoding>UTF-8</encoding>
   </configuration>
  </plugin>
  <plugin>
   <groupId>org.apache.maven.plugins</groupId>
   <artifactId>maven-surefire-plugin</artifactId>
   <version>2.16</version>
   <configuration>
    <argLine> -Xms256m -Xmx512m -XX:MaxPermSize=128m -Dfile.encoding=UTF-8 </argLine>
   </configuration>
  </plugin>
 </plugins>
</build>
```

5. 로그 설정 파일 추가
    src > main > resources > logback.xml

```xml
<?xml version="1.0" encoding="UTF-8"?>

<configuration scan="true" scanPeriod="3 seconds">
 <appender name="console" class="ch.qos.logback.core.ConsoleAppender">
  <layout>
   <pattern> %d{HH:mm:ss.SSS} [%thread] %-5level %logger{32} - %msg%n </pattern>
  </layout>
 </appender>
 <logger name="org.springframework" level="INFO"/>
 <root level="WARN">
  <appender-ref ref="console"/>
 </root>
</configuration>
```

> ⓘ 참고 https://github.com/csj4032/SpringDemo/blob/master/src/main/resources/logback.xml

6. Spring Web MVC를 이용한 웹 애플리케이션 개발하기
    a. config 파일 생성
        i. common/config/Appconfig.java
        ii. rest/config/RestConfig.java
    b. web-xml 파일 생성
        i. web-app/WEB-INF/web.xml

```xml
<?xml version="1.0" encoding="UTF-8"?>
<web-app xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
 xmlns="http://java.sun.com/xml/ns/javaee"
xmlns:web="http://java.sun.com/xml/ns/javaee/web-app_2_5.xsd"
 xsi:schemaLocation="http://java.sun.com/xml/ns/javaee
http://java.sun.com/xml/ns/javaee/web-app_2_5.xsd"
 version="2.5">
 <display-name>SpringDemo</display-name>
 <context-param>
  <param-name>contextClass</param-name>

<param-value>org.springframework.web.context.support.AnnotationConfigWebApplicationContext</param-value>
 </context-param>
 <context-param>
  <param-name>contextConfigLocation</param-name>
  <param-value>daumcorp.dago.common.config</param-value>
 </context-param>
 <filter>
  <filter-name>encodingFilter</filter-name>
  <filter-class>org.springframework.web.filter.CharacterEncodingFilter</filter-class>
  <init-param>
   <param-name>encoding</param-name>
   <param-value>UTF-8</param-value>
  </init-param>
 </filter>
 <filter-mapping>
  <filter-name>encodingFilter</filter-name>
  <url-pattern>/*</url-pattern>
 </filter-mapping>
 <listener>
  <listener-class>org.springframework.web.context.ContextLoaderListener</listener-class>
 </listener>
 <servlet>
  <servlet-name>rest</servlet-name>
  <servlet-class>org.springframework.web.servlet.DispatcherServlet</servlet-class>
  <init-param>
   <param-name>contextClass</param-name>

<param-value>org.springframework.web.context.support.AnnotationConfigWebApplicationContext</param-value>
  </init-param>
  <init-param>
   <param-name>contextConfigLocation</param-name>
   <param-value>daumcorp.dago.rest.config</param-value>
  </init-param>
  <load-on-startup>1</load-on-startup>
 </servlet>
 <servlet-mapping>
  <servlet-name>rest</servlet-name>
  <url-pattern>/</url-pattern>
 </servlet-mapping>
</web-app>
```

Spring DataSource 설정

1. AppConfig

Spring MyBatis 설정

Transaction 설정

View Resolver 설정

Interceptor 설정

Exception 처리 설정

참고

1. 프로젝트 예제
2. Java Config STS