

01. 프로젝트

- src/main/java
- src/main/resource
- src/main/webapp : 웹 어플리케이션을 구현할 때 필요한 코드가 위치하는 곳
- src/main/webapp/WEB-INF : web.xml이 위치하는 곳
- src/main/webapp/WEB-INF/view

- sp4-chap15폴더를 생성한다.
- 8장의 pom.xml과 src폴더를 그대로 sp4-chap15폴더에 복사한다.
- sp4-chap15폴더의 pom.xml에서 <artifactId>태그의 값을 sp4-chap14로 변경한다.
- 이클립스에서 sp4-chap15 메이븐 프로젝트를 임포트한다.

<http://www.oracle.com/technetwork/java/javamail-1-4-1-141959.html>

<http://www.oracle.com/technetwork/java/javasebusiness/downloads/java-archive-downloads-java-plat-419418.html#jaf-1.1-fr-oth-JPR>

각각 파일을 다운로드 받아 압축을 푼 후 톰캣의 bin디렉터리에 복사한다.

예제 1) sp4-chap15 폴더에 pom.xml 파일을 작성한다.

```
<?xml version="1.0" encoding="UTF-8"?>
<project xmlns="http://maven.apache.org/POM/4.0.0"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
        http://maven.apache.org/xsd/maven-4.0.0.xsd">
    <modelVersion>4.0.0</modelVersion>
    <groupId>sp4</groupId>
    <artifactId>sp4-chap15</artifactId>
    <version>0.0.1-SNAPSHOT</version>
    <packaging>war</packaging>
    <properties>
        <java-version>1.6</java-version>

<org.springframework-version>3.1.0.RELEASE</org.springframework-version>
        <org.aspectj-version>1.6.9</org.aspectj-version>
        <org.slf4j-version>1.6.1</org.slf4j-version>
    </properties>

    <dependencies>
        <dependency>
            <groupId>javax.servlet.jsp</groupId>
            <artifactId>jsp-api</artifactId>
```

```

        <version>2.2</version>
        <scope>provided</scope>
    </dependency>
    <dependency>
        <groupId>javax.servlet</groupId>
        <artifactId>javax.servlet-api</artifactId>
        <version>3.0.1</version>
        <scope>provided</scope>
    </dependency>
    <dependency>
        <groupId>javax.servlet</groupId>
        <artifactId>jstl</artifactId>
        <version>1.2</version>
    </dependency>
    <dependency>
        <groupId>org.springframework</groupId>
        <artifactId>spring-webmvc</artifactId>
        <version>4.1.0.RELEASE</version>
    </dependency>

    <dependency>
        <groupId>org.springframework</groupId>
        <artifactId>spring-jdbc</artifactId>
        <version>4.1.0.RELEASE</version>
    </dependency>
    <dependency>
        <groupId>com.mchange</groupId>
        <artifactId>c3p0</artifactId>
        <version>0.9.2.1</version>
    </dependency>
    <dependency>
        <groupId>mysql</groupId>
        <artifactId>mysql-connector-java</artifactId>
        <version>5.1.30</version>
    </dependency>

    <dependency>
        <groupId>log4j</groupId>
        <artifactId>log4j</artifactId>
        <version>1.2.17</version>
    </dependency>

```

```

        <dependency>
            <groupId>javax.mail</groupId>
            <artifactId>mail</artifactId>
            <version>1.4.3</version>
        </dependency>

        <dependency>
            <groupId>org.springframework</groupId>
            <artifactId>spring-context-support</artifactId>
            <version>3.0.5.RELEASE</version>
        </dependency>
    </dependencies>

    <build>
        <plugins>
            <plugin>
                <artifactId>maven-compiler-plugin</artifactId>
                <version>3.1</version>
                <configuration>
                    <source>1.7</source>
                    <target>1.7</target>
                    <encoding>utf-8</encoding>
                </configuration>
            </plugin>
        </plugins>
    </build>

</project>

```

예제 2) 서비스 클래스를 위한 스프링 설정 클래스를 작성한다.

src\main\resources\spring-controller.xml

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

```

<beans xmlns="http://www.springframework.org/schema/beans"
       xmlns:context="http://www.springframework.org/schema/context"
       xmlns:tx="http://www.springframework.org/schema/tx"
       xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
       xsi:schemaLocation="http://www.springframework.org/schema/beans

```

```

http://www.springframework.org/schema/beans/spring-beans-3.1.xsd
    http://www.springframework.org/schema/tx
    http://www.springframework.org/schema/tx/spring-tx.xsd
    http://www.springframework.org/schema/context
http://www.springframework.org/schema/context/spring-context-3.1.xsd">

<tx:annotation-driven transaction-manager="transactionManager"/>

<bean id="dataSource" class="com.mchange.v2.c3p0.ComboPooledDataSource"
    destroy-method="close">
    <property name="driverClass" value="oracle.jdbc.driver.OracleDriver"
/>
    <property name="jdbcUrl" value="jdbc:oracle:thin:@localhost:1521:XE"
/>
    <property name="user" value="smrit" />
    <property name="password" value="oracle" />
</bean>

<bean id="transactionManager"
class="org.springframework.jdbc.datasource.DataSourceTransactionManager">
    <property name="dataSource" ref="dataSource" />
</bean>

<bean id="mailSender" class
="org.springframework.mail.javamail.JavaMailSenderImpl" >
    <property name="host" value="smtp.gmail.com" /> // 74.125.129.109
    <property name="port" value="587" />
    <property name="defaultEncoding" value="utf-8"/>
    <property name="username" value="" />
    <property name="password" value="" />
    <property name="javaMailProperties">
        <prop key="mail.smtp.starttls.enable" >true</prop>
        <prop key="mail.smtp.auth" >true</prop>
        <prop key="mail.smtps.ssl.checkserveridentity">true</prop>
        <prop key="mail.smtps.debug" >true</prop>
        <prop key="mail.smtps.ssl.trust">*</prop>
    </property>
</bean>

<
    b
    e
    a
    n
class="org.springframework.beans.factory.annotation.AutowiredAnnotationBeanPostPr

```



```
ocessor" />
```

```
<bean id="email" class="spring.Email">
</bean>
<bean id="emailSender" class="spring.EmailSender">
</bean>
<bean id="emailcontroller" class="Controller.EmailController">
</bean>
</beans>
```

예제 3) 스프링 MVC를 위한 기본 설정 파일 작성
src\main\resources\spring-mvc.xml

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

<beans xmlns="http://www.springframework.org/schema/beans"
xmlns:mvc="http://www.springframework.org/schema/mvc"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://www.springframework.org/schema/beans
http://www.springframework.org/schema/beans/spring-beans.xsd
http://www.springframework.org/schema/mvc
http://www.springframework.org/schema/mvc/spring-mvc.xsd">

<mvc:annotation-driven />

<mvc:default-servlet-handler />

<mvc:view-resolvers>
<mvc:jsp prefix="/WEB-INF/view/" />
</mvc:view-resolvers>

</beans>
```

예제 4) web.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"
xsi:schemaLocation="http://java.sun.com/xml/ns/javaee
http://java.sun.com/xml/ns/javaee/web-app_3_0.xsd"
```

```
version="3.0">
```

```
<servlet>
    <servlet-name>dispatcher</servlet-name>
    <servlet-class>
        org.springframework.web.servlet.DispatcherServlet
    </servlet-class>
    <init-param>
        <param-name>contextConfigLocation</param-name>
        <param-value>
            classpath:spring-controller.xml
            classpath:spring-mvc.xml
        </param-value>
    </init-param>
    <load-on-startup>1</load-on-startup>
</servlet>
```

```
<servlet-mapping>
    <servlet-name>dispatcher</servlet-name>
    <url-pattern>/</url-pattern>
</servlet-mapping>
```

```
<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>
    <servlet-mapping>
        <servlet-name>dispatcher</servlet-name>
        <url-pattern>*.do</url-pattern>
    </servlet-mapping>
```

</web-app>

예제 5) 메일 정보를 저장하기 위한 Email 클래스를 생성한다.

package spring;

```
public class Email{

    private String subject;
    private String content;
    private String regdate;
    private String reciver;
    private String fromName;

    public String getReciver() {
        return reciver;
    }
    public void setReciver(String reciver) {
        this.reciver = reciver;
    }

    public String getSubject() {
        return subject;
    }
    public void setSubject(String subject) {
        this.subject = subject;
    }
    public String getContent() {
        return content;
    }
    public void setContent(String content) {
        this.content = content;
    }
    public String getRegdate() {
        return regdate;
    }
    public void setRegdate(String regdate) {
        this.regdate = regdate;
    }
    public String getFromName() {
        return fromName;
    }
}
```

```

        public void setFromName(String fromName) {
            this.fromName = fromName;
        }
    }
}

```

예제 6) EmailSender 클래스 생성

```
package spring;
```

```
import javax.mail.MessagingException;
```

```
import javax.mail.internet.InternetAddress;
```

```
import javax.mail.internet.MimeMessage;
```

```
import org.springframework.beans.factory.annotation.Autowired;
```

```
import org.springframework.mail.MailException;
```

```
import org.springframework.mail.javamail.JavaMailSender;
```

```
public class EmailSender {
```

```
    @Autowired
```

```
    protected JavaMailSender mailSender;
```

```
    public void SendEmail(Email email) throws Exception {
```

```
        MimeMessage msg = mailSender.createMimeMessage();
```

```
        //System.out.println(email.getReciver());
```

```
        //System.out.println(email.getSubject());
```

```
        //System.out.println(email.getContent());
```

```
        try {
```

```
            msg.setSubject(email.getSubject());
```

```
            msg.setText(email.getContent());
```

```
            msg.setFrom(new InternetAddress(email.getFromName()));
```

```
            msg.setRecipient(MimeMessage.RecipientType.TO, new
```

```
InternetAddress(email.getReciver()));
```

```
            msg.setText(text,"UTF-8", "html");
```

```
        }catch(MessagingException e) {
```

```
            System.out.println("MessagingException");
```

```
            e.printStackTrace();
```



```

    }
    try {
        mailSender.send(msg);
    } catch (MailException e) {
        System.out.println("MailException발생");
        e.printStackTrace();
    }
}
}

```

예제 7) EmailController 를 생성한다,
package Controller;

```

import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.stereotype.Controller;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.servlet.ModelAndView;

```

```

import spring.Email;
import spring.EmailSender;

```

```
@Controller
```

```
@RequestMapping("/email")
```

```
public class EmailController {
```

```
    @Autowired
```

```
    private EmailSender emailSender;
```

```
    @Autowired
```

```
    private Email email;
```

```
    @RequestMapping("/send")
```

```
    public ModelAndView sendEmailAction () throws Exception {
```

```
        String reciver = "highland0@nate.com"; //받을사람의 이메일입니다.
```

```
        String subject = "이메일 제목";
```

```
        String content = "이메일 내용입니다.";
```

```
        String fromName = "test@aaaa.com";
```

```
        email.setReciver(reciver);
```

```
        email.setSubject(subject);
```

```
        email.setContent(content);
```

```
        email.setFromName(fromName);
```

```
        emailSender.SendEmail(email);  
        return new ModelAndView("redirect:/success");  
    }  
}
```

setFrom(String from) : 발신자 설정
setReplyTo(String replyTo) : 응답 주소 설정
setTo(String to) : 수신자 설정
setTo(String[] to) : 수신자 목록 설정
setCc(String cc) : 참조자 설정
setCc(String[] cc) : 참조자 목록 설정
setBcc(String bcc) : 숨은 참조자 설정
setBcc(String[] bcc) : 숨은 참조자 목록 설정
setSentDate(Date sentDate) : 메일 발송일 설정
setSubject(String subject) : 메일 제목 설정
setText(String text) : 메일 내용 설정