Spring Day 4

Spring Security

인증 & 인가

인증 authentication 회원 로그인, 회원/비회원, 멤버쉽

인가 authorization 1급 기밀, 접근 권한, 무료회원/유료회원

환경설정

1. pom.xml : spring-security-web , spring-security-config 의존성 라이브러리 주입

maven repository

```
<?xml version="1.0" encoding="UTF-8"?>
1/XMLSchema-instance>"
 xsi:schemaLocation="<http://maven.apache.org/POM/4.0.0> <https://maven.apache.org/ma
ven-v4_0_0.xsd>">
 <modelVersion>4.0.0</modelVersion>
 <groupId>com.carshop/groupId>
 <artifactId>controller</artifactId>
 <name>CarShop</name>
 <packaging>war</packaging>
 <version>1.0.0-BUILD-SNAPSHOT</version>
 cproperties>
   <java-version>1.6</java-version>
   <org.springframework-version>5.3.19/org.springframework-version>
   <org.aspectj-version>1.6.10</org.aspectj-version>
   <org.slf4j-version>1.6.6</org.slf4j-version>
 </properties>
 <dependencies>
   <!-- Spring -->
   <dependency>
     <groupId>org.springframework</groupId>
     <artifactId>spring-context</artifactId>
     <version>${org.springframework-version}</version>
     <exclusions>
       <!-- Exclude Commons Logging in favor of SLF4j -->
       <exclusion>
         <groupId>commons-logging
         <artifactId>commons-logging</artifactId>
        </exclusion>
     </exclusions>
   </dependency>
   <dependency>
```

```
<groupId>org.springframework</groupId>
  <artifactId>spring-webmvc</artifactId>
  <version>${org.springframework-version}</version>
</dependency>
<!-- AspectJ -->
<dependency>
 <groupId>org.aspectj</groupId>
  <artifactId>aspectjrt</artifactId>
  <version>${org.aspectj-version}</version>
</dependency>
<!-- Logging -->
<dependency>
  <groupId>org.slf4j</groupId>
  <artifactId>slf4j-api</artifactId>
  <version>${org.slf4j-version}</version>
</dependency>
<dependency>
  <groupId>org.slf4j</groupId>
 <artifactId>jcl-over-slf4j</artifactId>
  <version>${org.slf4j-version}</version>
  <scope>runtime</scope>
</dependency>
<dependency>
  <groupId>org.slf4j</groupId>
 <artifactId>slf4j-log4j12</artifactId>
  <version>${org.slf4j-version}</version>
  <scope>runtime</scope>
</dependency>
<dependency>
  <groupId>log4j
  <artifactId>log4j</artifactId>
 <version>1.2.15
  <exclusions>
    <exclusion>
      <groupId>javax.mail</groupId>
      <artifactId>mail</artifactId>
    </exclusion>
    <exclusion>
      <groupId>javax.jms</groupId>
      <artifactId>jms</artifactId>
   </exclusion>
   <exclusion>
      <groupId>com.sun.jdmk</groupId>
      <artifactId>jmxtools</artifactId>
    </exclusion>
    <exclusion>
      <groupId>com.sun.jmx</groupId>
      <artifactId>jmxri</artifactId>
   </exclusion>
  </exclusions>
  <scope>runtime</scope>
</dependency>
<!-- @Inject -->
<dependency>
  <groupId>javax.inject
```

```
<artifactId>javax.inject</artifactId>
     <version>1</version>
   </dependency>
   <!-- Servlet -->
   <dependency>
     <groupId>javax.servlet
     <artifactId>servlet-api</artifactId>
     <version>2.5</version>
     <scope>provided</scope>
   </dependency>
   <dependency>
     <groupId>javax.servlet.jsp</groupId>
     <artifactId>jsp-api</artifactId>
     <version>2.1</version>
     <scope>provided</scope>
   </dependency>
   <dependency>
     <groupId>javax.servlet
     <artifactId>jstl</artifactId>
     <version>1.2</version>
   </dependency>
   <!-- Test -->
   <dependency>
     <groupId>junit
     <artifactId>junit</artifactId>
     <version>4.7</version>
     <scope>test</scope>
   </dependency>
<!-- <https://mvnrepository.com/artifact/org.springframework.security/spring-security-
web> -->
   <dependency>
       <groupId>org.springframework.security</groupId>
       <artifactId>spring-security-web</artifactId>
       <version>5.4.6
   </dependency>
<!-- <https://mvnrepository.com/artifact/org.springframework.security/spring-security-
config> -->
   <dependency>
       <groupId>org.springframework.security</groupId>
       <artifactId>spring-security-config</artifactId>
       <version>5.4.6
   </dependency>
 </dependencies>
   <build>
       <plugins>
           <plugin>
               <artifactId>maven-eclipse-plugin</artifactId>
              <version>2.9</version>
               <configuration>
                  <additionalProjectnatures>
                      re</projectnature>
                  </additionalProjectnatures>
```

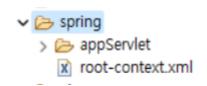
```
<additionalBuildcommands>
                       <buildcommand>org.springframework.ide.eclipse.core.springbuild
er</buildcommand>
                   </additionalBuildcommands>
                   <downloadSources>true</downloadSources>
                   <downloadJavadocs>true</downloadJavadocs>
               </configuration>
           </plugin>
           <plugin>
               <groupId>org.apache.maven.plugins
               <artifactId>maven-compiler-plugin</artifactId>
               <version>2.5.1
               <configuration>
                   <source>1.6</source>
                   <target>1.6</target>
                   <compilerArgument>-Xlint:all</compilerArgument>
                   <showWarnings>true</showWarnings>
                   <showDeprecation>true</showDeprecation>
               </configuration>
           </plugin>
           <plugin>
               <groupId>org.codehaus.mojo</groupId>
               <artifactId>exec-maven-plugin</artifactId>
               <version>1.2.1
               <configuration>
                   <mainClass>org.test.int1.Main/mainClass>
               </configuration>
           </plugin>
       </plugins>
   </build>
</project>
```

1. web.xml: filter 추가 - jsp 페이지를 유저에게 보내기 전에 필터링

```
param 추가 - **security-context.xml** 설정 (권한 / 인증 설정)
```

```
stener>
   ContextLoaderListener/listener-cl
ass>
  </listener>
  <!-- Processes application requests -->
  <servlet>
   <servlet-name>appServlet</servlet-name>
   <servlet-class>org.springframework.web.servlet.DispatcherServlet</servlet-class>
   <init-param>
     <param-name>contextConfigLocation</param-name>
     <param-value>/WEB-INF/spring/appServlet/servlet-context.xml</param-value>
   <load-on-startup>1</load-on-startup>
  </servlet>
  <servlet-mapping>
   <servlet-name>appServlet</servlet-name>
   <url-pattern>/</url-pattern>
  </servlet-mapping>
  <filter>
   <filter-name>encodingFilter</filter-name>
   <filter-class>org.springframework.web.filter.CharacterEncodingFilter</filter-class</pre>
   <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>
  <filter>
   <filter-name>springSecurityFilterChain</filter-name>
   <filter-class>org.springframework.web.filter.DelegatingFilterProxy
   </filter-class>
  </filter>
  <filter-mapping>
   <filter-name>springSecurityFilterChain</filter-name>
   <url-pattern>/*</url-pattern>
  </filter-mapping>
</web-app>
```

1. security-context.xml 작성 - 가장 중요!! 위치 확인할것 spring 바로 아래



```
<?xml version="1.0" encoding="UTF-8"?>
<besides <br/> <br/> beans
    xmlns="<http://www.springframework.org/schema/security>"
    xmlns:beans="<http://www.springframework.org/schema/beans>"
    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/security>
 <http://www.springframework.org/schema/security/spring-security.xsd>">
    <http auto-config="true" use-expressions="true">
  <intercept-url pattern="/admin/add" access="hasAuthority('ROLE_ADMIN')" />
  <intercept-url pattern="/manager" access="hasRole('ROLE_MANAGER')" />
  <intercept-url pattern="/member" access="isAuthenticated()" />
  <intercept-url pattern="/**" access="permitAll" />
    </http>
    <authentication-manager>
        <authentication-provider>
            <user-service>
```

Custom Login

→ 기본적으로 로그인 로그아웃이 스프링이 대충 만들어둔다. → 커스텀.

컨트롤러에서 설정 → 시큐리티xml에서 설정.

5시에 정리!

로그인 ↔ 로그아웃 전환 표시 처리.

헤더.

```
<%@ taglib prefix="c" uri="<http://java.sun.com/jsp/jstl/core>"%>
```

c 태그를 활용할 것이라 가져온다.

• 완성.헤더.jsp