

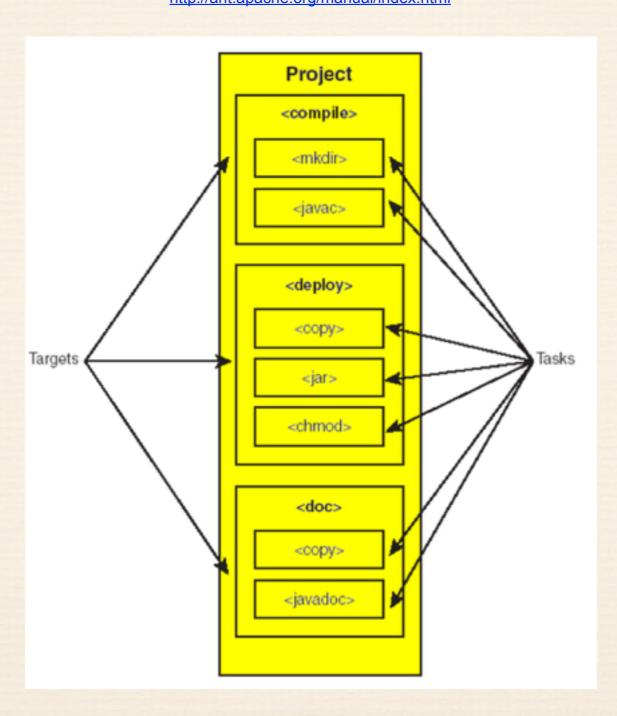
- \* Making the build process easy
- \* Providing a uniform build system
- Providing quality project information
- Providing guidelines for best practices development

### Build

- \* clean
- \* javac
- \* test (java org.junit.runner.JUnitCore [test class name])
- packaging (jar, war, ear)
- \* deploy

### Ant

http://ant.apache.org/manual/index.html



- \* eclipse 에서 maven project 생성
- \* dependencies 정의
- \* build 정의

- mvn [options] [<goal(s)>] [<phase(s)>]
- http://maven.apache.org/guides/getting-started/maven-in-five-minutes.html
- http://maven.apache.org/guides/introduction/introduction-to-the-lifecycle.html

#### Clean Lifecyle

pre-clean

#### clean

post-clean

Default Lifecyle	
validate	test-compile
initialize	process-test-classes
generate-sources	test
process-sources	prepare-package
generate-resources	package
process-resources	pre-integration-test
compile	integration-test
process-classes	post-integration-test
generate-test-sources	verify
process-test-sources	install
generate-test-resources	deploy
processs-test-resources	

#### Site Lifecyle

pre-site

site

post-site

site-deploy

Goals Phases resources:resources process-resources compiler:compile compile process-classes process-test-resources resources:testResources test-compile compiler:testCompile surefire:test test prepare-package jar:jar package Note: There are more phases than shown above, this is a partial list

- <dependency>
  - scope
    - \* compile
    - \* provided
    - \* runtime
    - \* test
    - system

- <repository>
- \* <pluginRepository>
- <distributionManagement>

- profile>
- <build>
  - <plugin>
  - <resource>
  - \* <pluginManagement>

\* settings.xml

### Revision Control

- \* SVN (subversion)
- \* Git
- \* CVS
- VSS (Visual SourceSafe)

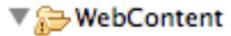
# Java Web Application

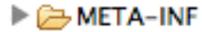


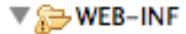
## Java Web Application

\* War

❖ 구조







- ▶ (⇒ lib)
- views
  - x repository.xml
  - x servlet-context.xml
  - x web.xml
- 🗟 create.jsp
- 🗟 index.jsp
- 🗟 list.jsp
- menu.css

## Java Web Application

#### \* web.xml

```
- (xsd:group name="web-commonType")
  - (xsd:choice)
     (xsd:group ref="javaee:descriptionGroup"/)
     \(xsd:element name="distributable" type="javaee:emptyType"/>
    + \(\tag{\text}\) element name="context-param" type="javaee:param-valueType"\(\text{\xsd:element}\)
     \( \text{xsd:element name="filter" type="javaee:filterType"/\)
     \(xsd:element name="filter-mapping" type="javaee:filter-mappingType"/>
     (xsd:element name="listener" type="javaee:listenerType"/)
     (xsd:element name="servlet" | type="javaee:servletType"/)
     (xsd:element name="servlet-mapping" type="javaee:servlet-mappingType"/>
     \(xsd:element name="session-config" type="javaee:session-configType"/>
     (xsd:element name="mime-mapping" type="javaee:mime-mappingType"/>
     (xsd:element name="welcome-file-list" type="javaee:welcome-file-listType"/)
     (xsd:element name="error-page" type="javaee:error-pageType"/)
     \(xsd:element name="jsp-config" type="javaee:jsp-configType"/>
     (xsd:element name="security-constraint" type="javaee:security-constraintType"/)
     \(xsd:element name="login-config" type="javaee:login-configType"/>
     (xsd:element name="security-role" type="javaee:security-roleType"/)
     (xsd:group ref="javaee:jndiEnvironmentRefsGroup"/)
     \(xsd:element name="message-destination" type="javaee:message-destinationType"/>\)
     (xsd:element name="locale-encoding-mapping-list" type="javaee:locale-encoding-mapping-listType"/>
   //xsd:choice>
 //xsd:group>
```

#### Servlet

- public void init(ServletConfig config)
  throws ServletException;
- public void service(ServletRequest req, ServletResponse res) throws ServletException, IOException;
- public void destroy();

#### Filter

- public void init(FilterConfig filterConfig) throws ServletException;
- public void doFilter ( ServletRequest request, ServletResponse response, FilterChain chain ) throws IOException, ServletException;
- public void destroy();

#### Listener

- ◈ javax.servlet.ServletContextListener : 컨텍스트 초기화, 컨텍스트 마무리
- javax.servlet.ServletContextAttributeListener : 컨텍스트에 속성을 추가,제거,수정했는지 알고 싶을 때
- ◈ javax.servlet.http.HttpSessionListener : 얼마나 많은 동시 사용자가 물려 있는지
- ◈ javax.servlet.ServletRequestListener : 요청이 들어올때마가 알고 싶을때 로그를 남기고 싶어서 그럴때
- ◈ javax.servlet.ServletRequestAttributeListener : Request속성이 추카,제거,수정 되었는지 알고 싶을때.
- ◈ javax.servlet.http.HttpSessionAttributeListener : 세션 속성이 추가,제거,수정 되었는지 알고 싶을때.

# **ApplicationContext**



### **ApplicationContext**

- \* extends BeanFactory
- StaticApplicationContext
- \* GenericXmlApplicationContext
- AnnotationConfigApplicationContext
- \* 각각의 WebApplicationContext
  - StaticWebApplicationContext
  - XmlWebApplicationContext
  - AnnotationConfigWebApplicationContext

## ApplicationContext 계층구조

Root ApplicationContext

A1 ApplicationContext

B1 ApplicationContext A2 ApplicationContext

### Bean 등록

- \* <bean> ... </bean>
- \* @Configuration ... @Bean ... @Bean
- \* @Component @Controller @Service @Repository

### DI설정

- \* property> ...
- <<constructor-arg> ... </constructor-arg>
- @Resource(name="jdbcTemplate")
- \* @Autowired

### Value 설정

- \* property name="name" value="value" />
- \* @Value
  - \* @Value("value") String str;
  - \* @Value("1.2") double rate;
  - \* @Value("1,2,3,4") int[] intarr;

### Value 설정

- \* property name="names">
  - \* < list>
    - <value> a </value>
    - <value> b </value>
  - \* </list>
- \*
- \* property name="ages">
  - **⋄** <map>
    - \* <entry key="Kim" value="30" />
    - \* <entry key="Lee" value="35" />
  - ♦ </map>

### Value 설정

- \* cproperty name="settings">
  - - \* cprop key="username">jeju</prop>
    - \* cprop key="password">jejupw</prop>
- \*
- \* property name="beans">
  - - <ref bean="beanA" />
    - <ref bean="beanB" />
  - ♦ </list>

### Bean Scope

- \* singleton (Default)
- prototype
- \* request
- \* session
- \* globalSession
- \* application