Spring notes

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# Spring MVC Project Structure

Spring MVC project structure - <https://www.javaguides.net/2019/01/spring-mvc-project-structure.html>

Spring MVC Project Structure

In a typical Spring MVC web application, the web application packaging structure may look:

── pom.xml

└── src

├── main

│ ├── java

│ │ └── com

│ │ └── companyname

│ │ └── projectname

│ │ ├── domain

│ │ │ └── MyDomain.java

│ │ ├── repository

│ │ │ └── MyDomainRepository.java

│ │ ├── service

│ │ │ ├── MyDomainService.java

│ │ │ └── internal

│ │ │ └── MyDomainServiceImpl.java

│ │ └── web

│ │ └── MyDomainController.java

│ ├── resources

│ │ ├── META-INF

│ │ │ └── spring

│ │ │ ├── applicationContext.xml

│ │ │ └── database.properties

│ │ ├── logback-access.xml

│ │ └── logback.xml

│ └── webapp

│ ├── WEB-INF

│ │ ├── classes

│ │ ├── i18n

│ │ ├── layouts

│ │ ├── spring

│ │ │ └── webmvc-config.xml

│ │ ├── views

│ │ │ ├── myDomain

│ │ │ │ ├── create.jsp

│ │ │ │ ├── list.jsp

│ │ │ │ ├── show.jsp

│ │ │ │ └── update.jsp

│ │ │ ├── dataAccessFailure.jsp

│ │ │ ├── index.jsp

│ │ │ ├── resourceNotFound.jsp

│ │ │ ├── uncaughtException.jsp

│ │ │ └── views.xml

│ │ └── web.xml

│ ├── images

│ └── styles

├── site

│ ├── apt

│ ├── fml

│ ├── site.xml

│ └── xdoc

└── test

├── java

│ └── com

│ └── companyname

│ └── projectname

│ └── service

│ └── MyDomainServiceTests.java

└── resources

├── com

│ └── companyname

│ └── projectname

│ └── service

│ └── MyDomainServiceTests-context.xml

└── logback-test.xml

**Production**

* **src/main/java** – Java Source code packages and classes
* **src/main/resources** – NON-Java Resources, such as property files and Spring configuration
* **src/main/webapp** - deployment descriptor(web.xml), WEB-INF, JSP views under WEB-INF folder, static resources.

**Test**

* **src/test/java** – Test Source code packages and classes
* **src/test/resources** – NON-Java Resources, such as property files and Spring configuration

**Spring MVC - placing your JSP files in a directory under the 'WEB-INF' directory**

As a best practice, we strongly encourage placing your JSP files in a directory under the 'WEB-INF' directory so there can be no direct access by clients.

# Standard Project Structure for Spring Boot Projects

Standard Project Structure for Spring Boot Projects- <https://www.javaguides.net/2019/01/standard-project-structure-for-spring-boot-projects.html>.

# Spring Boot non-web application example

Read - <https://mkyong.com/spring-boot/spring-boot-non-web-application-example/>.

# IDE for Spring project

Install - <https://spring.io/tools>, Read - <https://github.com/spring-projects/sts4/wiki>.

# Spring maven dependencies

Read - <https://www.baeldung.com/spring-with-maven>.

# Overriding beans

<https://www.codelooru.com/2017/02/overriding-spring-beans-with-aliases.html>

# Spring <idref /> usage

<https://stackoverflow.com/questions/14607142/spring-idref-usage>

Spring **idref** element is used to pass the id of a bean to another bean **as string**. The idref works same as value attribute but when we use idref then there must be a bean with that id which we pass to idref. The advantage of using idref over value attribute is that if there will be no bean with that id, it will throw error at runtime. The **idref allows validating the existence of bean with that id at deployment time**. The idref is used with <constructor-arg/> or <property/> element.

A common place (at least in versions earlier than Spring 2.0) where the <idref/> element brings value is in the configuration of [AOP interceptors](https://docs.spring.io/spring-framework/docs/current/reference/html/core.html#aop-pfb-1) in a ProxyFactoryBean bean definition. Using <idref/> elements when you specify the interceptor names prevents you from misspelling an interceptor ID.