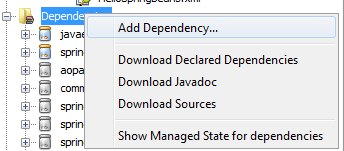
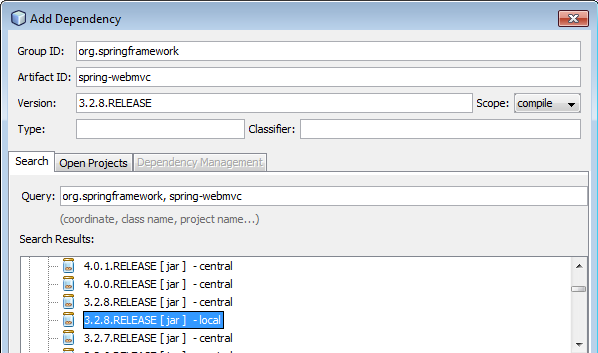
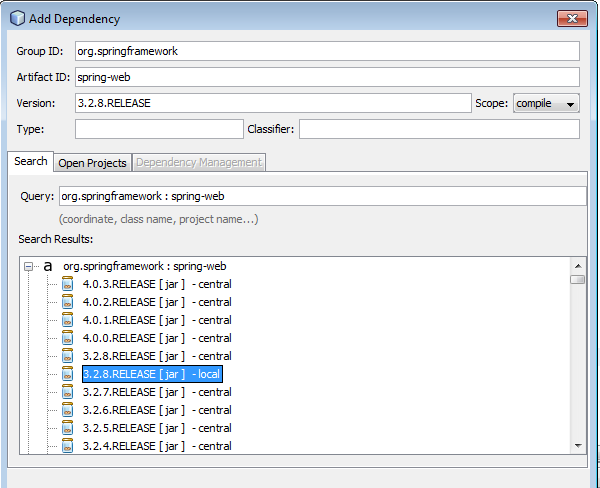
# Projecto 3 – Instruções

## Adicionar Spring Web + Web-MVC ao projecto

1. Adicionar dependencias Maven

Opcionalmente, adicionar diretamente ao pom.xml:

*<!-- Spring framework -->*

**<dependency>**

**<groupId>**org.springframework**</groupId>**

**<artifactId>**spring-core**</artifactId>**

**<version>**3.2.8.RELEASE**</version>**

**</dependency>**

*<!-- Spring web mvc -->*

**<dependency>**

**<groupId>**org.springframework**</groupId>**

**<artifactId>**spring-web**</artifactId>**

**<version>**3.2.8.RELEASE**</version>**

**</dependency>**

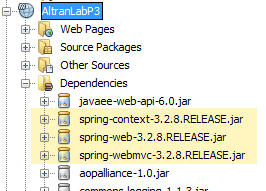
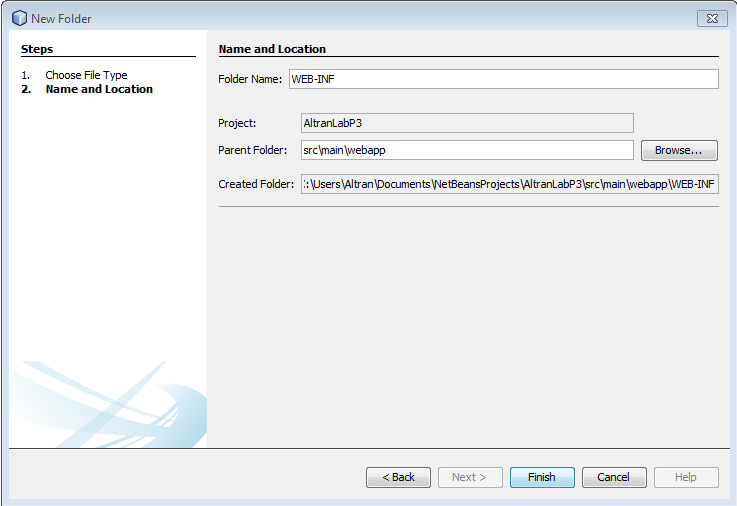
**<dependency>**

**<groupId>**org.springframework**</groupId>**

**<artifactId>**spring-webmvc**</artifactId>**

**<version>**3.2.8.RELEASE**</version>**

**</dependency>**

1. Clean & Build
2. Resultado  
   
3. Criar folder WEB-INF (se não existir)  
   
4. Dentro da pasta criada, criar um ficheiro xml “web.xml” e preencher com o seguinte conteudo

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

<web-app id="AltranLab3" version="2.4"

xmlns="http://java.sun.com/xml/ns/j2ee"

xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

xsi:schemaLocation="http://java.sun.com/xml/ns/j2ee

http://java.sun.com/xml/ns/j2ee/web-app\_2\_4.xsd">

<display-name>Spring MVC Application</display-name>

<servlet>

<servlet-name>mvc-dispatcher</servlet-name>

<servlet-class>

org.springframework.web.servlet.DispatcherServlet

</servlet-class>

<load-on-startup>1</load-on-startup>

</servlet>

<servlet-mapping>

<servlet-name>mvc-dispatcher</servlet-name>

<url-pattern>/</url-pattern>

</servlet-mapping>

<context-param>

<param-name>contextConfigLocation</param-name>

<param-value>/WEB-INF/mvc-dispatcher-servlet.xml</param-value>

</context-param>

<listener>

<listener-class>

org.springframework.web.context.ContextLoaderListener

</listener-class>

</listener>

</web-app>

1. Criar o ficheiro de configuração do servlet (/WEB-INF/mvc-dispatcher-servlet.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:xsi="http://www.w3.org/2001/XMLSchema-instance"

xsi:schemaLocation="

http://www.springframework.org/schema/beans

http://www.springframework.org/schema/beans/spring-beans-3.0.xsd

http://www.springframework.org/schema/context

http://www.springframework.org/schema/context/spring-context-3.0.xsd">

<context:component-scan base-package="com.altran.lab.spring" />

<bean class="org.springframework.web.servlet.view.InternalResourceViewResolver">

<property name="prefix">

<value>/WEB-INF/pages/</value>

</property>

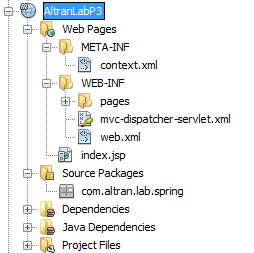
<property name="suffix">

<value>.jsp</value>

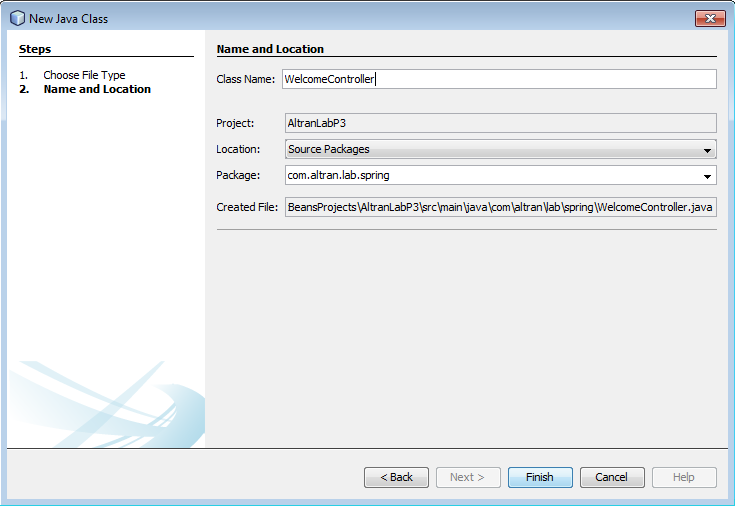
</property>

</bean>

</beans>

1. Criar pasta /WEB-INF/pages/
2. Resultado:  
   

## Criar um controller + view

1. Criar uma classe com o nome do controller “<nome>Controller”  
   Nota: deverá ser num namespace que esteja presente (ou seja sub-namespace) na configuração do dispatcher servlet (ver mvc-dispatcher-servlet.xml)  
   
2. Alterar classe para:

package com.altran.lab.spring;

import org.springframework.stereotype.Controller;

import org.springframework.ui.Model;

import org.springframework.web.bind.annotation.RequestMapping;

import org.springframework.web.bind.annotation.RequestMethod;

@Controller

@RequestMapping("/welcome") /\* Recomendado, no entanto é feito automaticamente com base no nome do controller (WelcomeController -> "/welcome\*")\*/

public class WelcomeController {

@RequestMapping(value = "", method = RequestMethod.GET) /\* Só responde a HTTP get's \*/

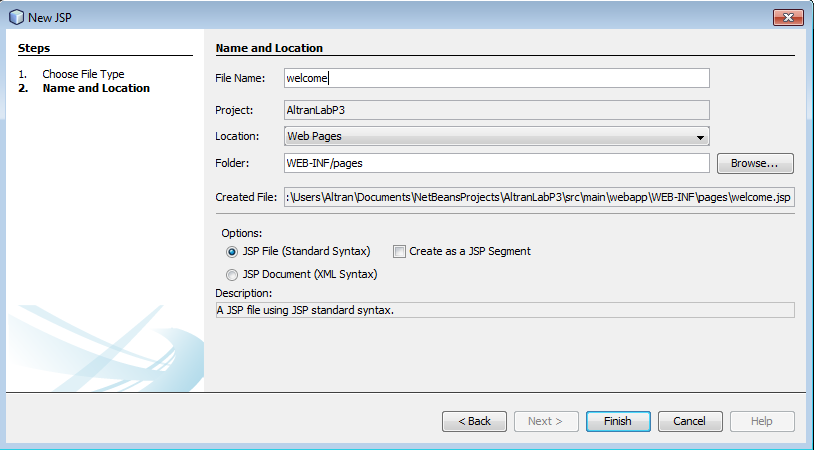
public String welcome(Model model) {

model.addAttribute("message", "Welcome! This is a custom message!"); /\* Poderá ser acedido pela página jsp através de EL (Expression Language): ${chave} \*/

return "welcome"; /\* Nome de view. Pode ser retornado um ModelAndView.\*/

}

}

1. Criar página /WEB-INF/pages/welcome.jsp  
   
2. Alterar conteudo da pagina criada

<%@page contentType="text/html" pageEncoding="UTF-8"%>

<!DOCTYPE html>

<html>

<head>

<!-- Latest compiled and minified CSS -->

<link rel="stylesheet" href="//netdna.bootstrapcdn.com/bootstrap/3.1.1/css/bootstrap.min.css">

<!-- Optional theme -->

<link rel="stylesheet" href="//netdna.bootstrapcdn.com/bootstrap/3.1.1/css/bootstrap-theme.min.css">

<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">

<title>Welcome to Altran Lab - Spring!</title>

</head>

<body>

<div class="container">

<div class="jumbotron">

<h1>Welcome to Altran Lab - Spring!</h1>

<p clas="lead">${message}</p>

</div>

</div>

</body>

</html>

1. Resultado:  
   