

# Spring Boot Hello World Example – JSP

By mkyong (<https://www.mkyong.com/author/mkyong/>) | November 28, 2016 | Viewed : 141,108 times +4,405 pv/w

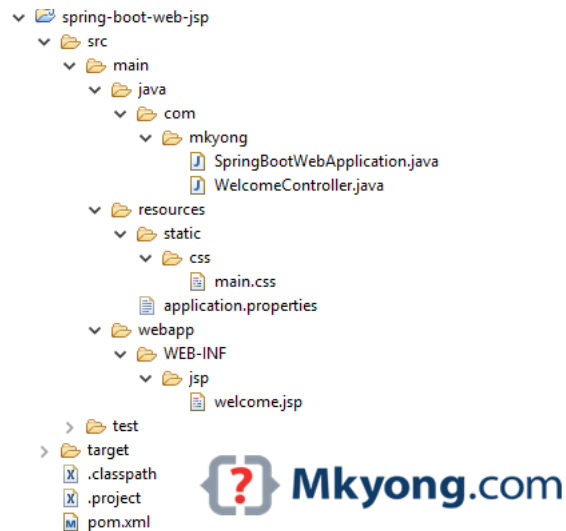
A Spring Boot (<https://projects.spring.io/spring-boot/>) web application example, using embedded Tomcat + JSP template , and package as an executable WAR file.

Technologies used :

1. Spring Boot 1.4.2.RELEASE
2. Spring 4.3.4.RELEASE
3. Tomcat Embed 8.5.6
4. Maven 3
5. Java 8

## 1. Project Directory

Create the following folders manually :



## 2. Project Dependencies

Maven example. Read comments for self-explanatory.

pom.xml

```
<?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>

  <artifactId>spring-boot-web-jsp</artifactId>
  <packaging>war</packaging>
  <name>Spring Boot Web JSP Example</name>
  <description>Spring Boot Web JSP Example</description>
  <url>https://www.mkyong.com</url>
  <version>1.0</version>

  <parent>
    <groupId>org.springframework.boot</groupId>
    <artifactId>spring-boot-starter-parent</artifactId>
    <version>1.4.2.RELEASE</version>
  </parent>

  <properties>
    <java.version>1.8</java.version>
  </properties>

  <dependencies>

    <!-- This is a web application -->
    <dependency>
      <groupId>org.springframework.boot</groupId>
      <artifactId>spring-boot-starter-web</artifactId>
    </dependency>

    <!-- Tomcat embedded container-->
    <dependency>
      <groupId>org.springframework.boot</groupId>
      <artifactId>spring-boot-starter-tomcat</artifactId>
      <scope>provided</scope>
    </dependency>

    <!-- JSTL for JSP -->
    <dependency>
      <groupId>javax.servlet</groupId>
      <artifactId>jstl</artifactId>
    </dependency>

    <!-- Need this to compile JSP -->
    <dependency>
      <groupId>org.apache.tomcat.embed</groupId>
      <artifactId>tomcat-embed-jasper</artifactId>
      <scope>provided</scope>
    </dependency>

    <!-- Need this to compile JSP,
    tomcat-embed-jasper version is not working, no idea why -->
    <dependency>
      <groupId>org.eclipse.jdt.core.compiler</groupId>
      <artifactId>ecj</artifactId>
      <version>4.6.1</version>
      <scope>provided</scope>
    </dependency>

    <!-- Optional, test for static content, bootstrap CSS-->
    <dependency>
      <groupId>org.webjars</groupId>
      <artifactId>bootstrap</artifactId>
      <version>3.3.7</version>
    </dependency>

  </dependencies>
  <build>
    <plugins>
      <!-- Package as an executable jar/war -->
      <plugin>
        <groupId>org.springframework.boot</groupId>
        <artifactId>spring-boot-maven-plugin</artifactId>
      </plugin>
    </plugins>
  </build>
</project>
```

```

    </plugins>
  </build>
</project>

```

Display project dependencies :

```

$ mvn dependency:tree

[INFO] Scanning for projects...
[INFO]
[INFO] -----
[INFO] Building Spring Boot Web JSP Example 1.0
[INFO] -----
[INFO]
[INFO] --- maven-dependency-plugin:2.10:tree (default-cli) @ spring-boot-web-jsp ---
[INFO] org.springframework.boot:spring-boot-web-jsp:war:1.0
[INFO] +- org.springframework.boot:spring-boot-starter-web:jar:1.4.2.RELEASE:compile
[INFO] | +- org.springframework.boot:spring-boot-starter:jar:1.4.2.RELEASE:compile
[INFO] | | +- org.springframework.boot:spring-boot:jar:1.4.2.RELEASE:compile
[INFO] | | +- org.springframework.boot:spring-boot-autoconfigure:jar:1.4.2.RELEASE:compile
[INFO] | | +- org.springframework.boot:spring-boot-starter-logging:jar:1.4.2.RELEASE:compile
[INFO] | | | +- ch.qos.logback:logback-classic:jar:1.1.7:compile
[INFO] | | | | +- ch.qos.logback:logback-core:jar:1.1.7:compile
[INFO] | | | \- org.slf4j:slf4j-api:jar:1.7.21:compile
[INFO] | | +- org.slf4j:jcl-over-slf4j:jar:1.7.21:compile
[INFO] | | +- org.slf4j:jul-to-slf4j:jar:1.7.21:compile
[INFO] | | \- org.slf4j:log4j-over-slf4j:jar:1.7.21:compile
[INFO] | +- org.springframework:spring-core:jar:4.3.4.RELEASE:compile
[INFO] | \- org.yaml:snakeyaml:jar:1.17:runtime
[INFO] +- org.hibernate:hibernate-validator:jar:5.2.4.Final:compile
[INFO] | +- javax.validation:validation-api:jar:1.1.0.Final:compile
[INFO] | +- org.jboss.logging:jboss-logging:jar:3.3.0.Final:compile
[INFO] | \- com.fasterxml:classmate:jar:1.3.3:compile
[INFO] +- com.fasterxml.jackson.core:jackson-databind:jar:2.8.4:compile
[INFO] | +- com.fasterxml.jackson.core:jackson-annotations:jar:2.8.4:compile
[INFO] | \- com.fasterxml.jackson.core:jackson-core:jar:2.8.4:compile
[INFO] +- org.springframework:spring-web:jar:4.3.4.RELEASE:compile
[INFO] | +- org.springframework:spring-aop:jar:4.3.4.RELEASE:compile
[INFO] | +- org.springframework:spring-beans:jar:4.3.4.RELEASE:compile
[INFO] | \- org.springframework:spring-context:jar:4.3.4.RELEASE:compile
[INFO] \- org.springframework:spring-webmvc:jar:4.3.4.RELEASE:compile
[INFO] \- org.springframework:spring-expression:jar:4.3.4.RELEASE:compile
[INFO] +- org.springframework.boot:spring-boot-starter-tomcat:jar:1.4.2.RELEASE:provided
[INFO] | +- org.apache.tomcat.embed:tomcat-embed-core:jar:8.5.6:provided
[INFO] | +- org.apache.tomcat.embed:tomcat-embed-el:jar:8.5.6:provided
[INFO] | \- org.apache.tomcat.embed:tomcat-embed-websocket:jar:8.5.6:provided
[INFO] +- javax.servlet:jstl:jar:1.2:compile
[INFO] +- org.apache.tomcat.embed:tomcat-embed-jasper:jar:8.5.6:provided
[INFO] +- org.eclipse.jdt.core.compiler:ecj:jar:4.6.1:provided
[INFO] \- org.webjars:bootstrap:jar:3.3.7:compile
[INFO] \- org.webjars:jquery:jar:1.11.1:compile
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 1.327 s
[INFO] Finished at: 2016-11-28T16:57:00+08:00
[INFO] Final Memory: 20M/309M
[INFO] -----

```

### 3. Spring Spring

#### 3.1 This SpringBootServletInitializer run a SpringApplication from a traditional WAR deployment

```
SpringBootWebApplication.java
```

```
package com.mkyong;

import org.springframework.boot.SpringApplication;
import org.springframework.boot.autoconfigure.SpringBootApplication;
import org.springframework.boot.builder.SpringApplicationBuilder;
import org.springframework.boot.web.support.SpringBootServletInitializer;

@SpringBootApplication
public class SpringBootWebApplication extends SpringBootServletInitializer {

    @Override
    protected SpringApplicationBuilder configure(SpringApplicationBuilder application) {
        return application.sources(SpringBootWebApplication.class);
    }

    public static void main(String[] args) throws Exception {
        SpringApplication.run(SpringBootWebApplication.class, args);
    }

}
```

### 3.2 A simple Spring controller class.

#### WelcomeController.java

```
package com.mkyong;

import java.util.Map;

import org.springframework.beans.factory.annotation.Value;
import org.springframework.stereotype.Controller;
import org.springframework.web.bind.annotation.RequestMapping;

@Controller
public class WelcomeController {

    // inject via application.properties
    @Value("${welcome.message:test}")
    private String message = "Hello World";

    @RequestMapping("/")
    public String welcome(Map<String, Object> model) {
        model.put("message", this.message);
        return "welcome";
    }

}
```

## 4. JSP + Resources + Static files

### 4.1 For JSP files, put in src/main/webapp/WEB-INF/jsp/

```
src/main/webapp/WEB-INF/jsp/welcome.jsp
```

```

<!DOCTYPE html>
<%@ taglib prefix="spring" uri="http://www.springframework.org/tags"%>
<%@ taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core"%>
<html lang="en">
<head>

    <!-- Access the bootstrap Css like this,
         Spring boot will handle the resource mapping automatically -->
    <link rel="stylesheet" type="text/css" href="webjars/bootstrap/3.3.7/css/bootstrap.min.css" />

    <!--
    <spring:url value="/css/main.css" var="springCss" />
    <link href="${springCss}" rel="stylesheet" />
    -->
    <c:url value="/css/main.css" var="jstlCss" />
    <link href="${jstlCss}" rel="stylesheet" />

</head>
<body>

    <nav class="navbar navbar-inverse">
        <div class="container">
            <div class="navbar-header">
                <a class="navbar-brand" href="#">Spring Boot</a>
            </div>
            <div id="navbar" class="collapse navbar-collapse">
                <ul class="nav navbar-nav">
                    <li class="active"><a href="#">Home</a></li>
                    <li><a href="#about">About</a></li>
                </ul>
            </div>
        </div>
    </nav>

    <div class="container">

        <div class="starter-template">
            <h1>Spring Boot Web JSP Example</h1>
            <h2>Message: ${message}</h2>
        </div>

    </div>

    <script type="text/javascript" src="webjars/bootstrap/3.3.7/js/bootstrap.min.js"></script>

</body>
</html>

```

4.2 For static files like CSS or Javascript, put in `/src/main/resources/static/`

`/src/main/resources/static/css/main.css`

```

h1{
    color:#0000FF;
}

h2{
    color:#FF0000;
}

```

4.3 For properties files, put in `/src/main/resources/`

`/src/main/resources/application.properties`

```

spring.mvc.view.prefix: /WEB-INF/jsp/
spring.mvc.view.suffix: .jsp

welcome.message: Hello Mkyong

```

**Note**

Spring Boot, convention over configuration, no need to declare the resource mapping like this (<https://www.mkyong.com/spring-mvc/spring-mvc-how-to-include-js-or-css-files-in-a-jsp-page/>). The resource mapping just handles automatically – Read this article – Spring Boot Serving static content (<http://docs.spring.io/spring-boot/docs/current/reference/htmlsingle/#boot-features-spring-mvc-static-content>)

## 5. Demo

### 5.1 Start the Spring Boot web app.

```
project$ mvn spring-boot:run

//...
  ____  _
 / __ \| | | | _ \| | | | _ \| | | |
( ( ) \| | | | | | | | | | | | | |
 \| | | | | | | | | | | | | | | |
  | | | | | | | | | | | | | | | |
  |_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|
:: Spring Boot ::      (v1.4.2.RELEASE)

2016-11-28 17:25:24.809 INFO 4696 --- [main] com.mkyong.SpringBootWebApplication : Starting SpringBootWebApplication on MKYONG-WIN10 v
2016-11-28 17:25:24.812 INFO 4696 --- [main] com.mkyong.SpringBootWebApplication : No active profile set, falling back to default prof
2016-11-28 17:25:24.861 INFO 4696 --- [main] ationConfigEmbeddedWebApplicationContext : Refreshing org.springframework.boot.context.embedde
2016-11-28 17:25:25.950 INFO 4696 --- [main] s.b.c.e.t.TomcatEmbeddedServletContainer : Tomcat initialized with port(s): 8080 (http)
2016-11-28 17:25:25.965 INFO 4696 --- [main] o.apache.catalina.core.StandardService : Starting service Tomcat
2016-11-28 17:25:25.966 INFO 4696 --- [main] org.apache.catalina.core.StandardEngine : Starting Servlet Engine: Apache Tomcat/8.5.6
2016-11-28 17:25:26.171 INFO 4696 --- [ost-startStop-1] org.apache.jasper.servlet.TldScanner : At least one JAR was scanned for TLDs yet containe
2016-11-28 17:25:26.180 INFO 4696 --- [ost-startStop-1] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring embedded WebApplicationContext
2016-11-28 17:25:26.180 INFO 4696 --- [ost-startStop-1] o.s.web.context.ContextLoader : Root WebApplicationContext: initialization complete
2016-11-28 17:25:26.304 INFO 4696 --- [ost-startStop-1] o.s.b.w.servlet.ServletRegistrationBean : Mapping servlet: 'dispatcherServlet' to [/]
2016-11-28 17:25:26.312 INFO 4696 --- [ost-startStop-1] o.s.b.w.servlet.FilterRegistrationBean : Mapping filter: 'characterEncodingFilter' to: [/]
2016-11-28 17:25:26.313 INFO 4696 --- [ost-startStop-1] o.s.b.w.servlet.FilterRegistrationBean : Mapping filter: 'hiddenHttpMethodFilter' to: [/]
2016-11-28 17:25:26.313 INFO 4696 --- [ost-startStop-1] o.s.b.w.servlet.FilterRegistrationBean : Mapping filter: 'httpPutFormContentFilter' to: [/]
2016-11-28 17:25:26.314 INFO 4696 --- [ost-startStop-1] o.s.b.w.servlet.FilterRegistrationBean : Mapping filter: 'requestContextFilter' to: [/]

//...

2016-11-28 17:25:26.841 INFO 4696 --- [main] s.b.c.e.t.TomcatEmbeddedServletContainer : Tomcat started on port(s): 8080 (http)
2016-11-28 17:25:26.846 INFO 4696 --- [main] com.mkyong.SpringBootWebApplication : Started SpringBootWebApplication in 2.403 seconds
```

### 5.2 Access <http://localhost:8080>



### 5.3 Maven package the project as an executable WAR file. A 18M++ WAR file will be generated in the target folder.

```
project$ mvn clean package

...
[INFO] Building war: ...\\spring-boot-web-jsp\\target\\spring-boot-web-jsp-1.0.war
[INFO]
[INFO] --- spring-boot-maven-plugin:1.4.2.RELEASE:repackage (default) @ spring-boot-web-jsp ---
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
```

Run It, access <http://localhost:8080> again.

```
project$ java -jar target/spring-boot-web-jsp-1.0.war
```

### JSP limitations

You can't create an executable `jar` to run this embedded Tomcat + JSP web example, because of a hard coded file pattern in Tomcat. Read this [Spring Boot – JSP limitation](http://docs.spring.io/spring-boot/docs/current/reference/html/boot-features-developing-web-applications.html#boot-features-jsp-limitations) (<http://docs.spring.io/spring-boot/docs/current/reference/html/boot-features-developing-web-applications.html#boot-features-jsp-limitations>).

## Download Source Code

Download it – [spring-boot-web-jsp.zip](http://www.mkyong.com/wp-content/uploads/2016/11/spring-boot-web-jsp.zip) (8KB) (<http://www.mkyong.com/wp-content/uploads/2016/11/spring-boot-web-jsp.zip>)

## References

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3. Deploying Spring Boot Applications (<https://spring.io/blog/2014/03/07/deploying-spring-boot-applications>)
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## About the Author



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Founder of Mkyong.com (<http://mkyong.com>), love Java and open source stuff. Follow him on Twitter (<https://twitter.com/mkyong>), or befriend him on Facebook (<http://www.facebook.com/java.tutorial>) or Google Plus (<https://plus.google.com/110948163568945735692?rel=author>). If you like my tutorials, consider make a donation to these charities (<http://www.mkyong.com/blog/donate-to-charity/>).

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Vaishali Modi

Getting error as below:

Guest

This application has no explicit mapping for /error, so you are seeing this as a fallback.  
There was an unexpected error (type=Not Found, status=404).  
No message available

👍 2 👎 REPLY

🕒 1 month 18 days ago ^



Srinivas

You have to execute the maven command like "mvn clean package", after this run the java program

Guest

👍 -3 👎 REPLY

🕒 28 days 18 hours ago



Daniel Bower (<http://bowerstudios.com>)

Changing the scope of that tomcat dependency from provided to runtime ought to do the trick.

Guest

👍 2 👎 REPLY

🕒 2 months 29 days ago



Aniket Luharia

hi  
my jsp is getting downloaded  
as a file when i am hitting <http://localhost:8080> (<http://localhost:8080>) url.

Guest



🕒 4 months 11 days ago



Andrey

Guest

If welcome.message: Hello Mkyong, in application.properties  
then why "\${welcome.message:test}"?  
what is test there?



🕒 2 months 1 day ago



Bohdan

Guest

For this thing –  
"Need this to compile JSP, tomcat-embed-jasper version is not working, no idea why"  
tried to remove scope tags or comment them. And it must work.



🕒 21 days 22 hours ago



Bohdan

Guest

For this thing , tried to remove tags or comment them. And it must work.



🕒 21 days 22 hours ago



Devid

Guest

org.springframework.context.ApplicationContextException: Unable to start embedded container; nested exception is  
org.springframework.context.ApplicationContextException: Unable to start EmbeddedWebApplicationContext due to missing  
EmbeddedServletContainerFactory bean.

please provide solution



🕒 1 month 9 days ago ^



Jacks

Guest

You missed to mark your Application class with "@SpringBootApplication".  
Please refer : <https://stackoverflow.com/questions/21783391/spring-boot-unable-to-start-embeddedwebapplicationcontext-due-to-missing-embedd> (<https://stackoverflow.com/questions/21783391/spring-boot-unable-to-start-embeddedwebapplicationcontext-due-to-missing-embedd>)



🕒 11 days 23 hours ago

rtert (<http://hhghgh>)

Guest

hhh hgfh fhghg hghg



🕒 1 month 19 days ago

sas (<http://hhghgh>)

Guest

sss



🕒 1 month 19 days ago



Barak

Guest

Missing  
@ComponentScan("com.mkyong")



🕒 1 month 19 days ago



Surendra Jnawali

@mkyong It's really very helpful to startup and error free project. As always you did great job

Guest



🕒 2 months 16 days ago



Tiago Cássio

Could you please give a example to how to create template reuse with JSP using Spring Boot?

Guest

Thanks for all.



🕒 5 months 17 days ago



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