Spring Framework: Spring MVC Fundamentals
by Bryan Hansen

▶ Start Course

🔖 Bookmark   📡 Add to Channel   ⬇ Download Course

Table of contents   Description   Transcript   Exercise files   **Discussion**   Related Cours

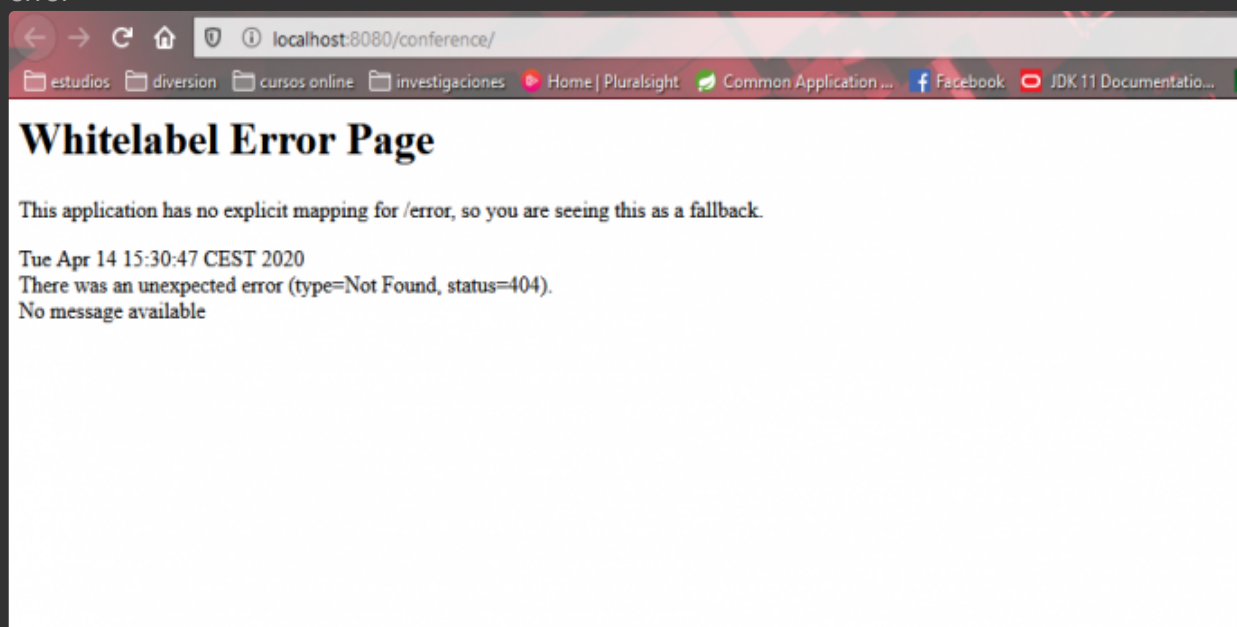♡ Recommend   🐦 Tweet   f Share   Sort by Newest ▾

Join the discussion…

Alex Gómez • a day ago

Hi I having a problem in the demo registration controller, after I remove index.html from the webapp folder (I still have it in the templates folder) when I deploy the app, lauch me this error

Whitelabel Error Page

This application has no explicit mapping for /error, so you are seeing this as a fallback.

Tue Apr 14 15:30:47 CEST 2020
There was an unexpected error (type=Not Found, status=404).
No message available

see more

△ | ▽ • Reply • Share ›

Bryan Hansen → Alex Gómez • a day ago

Well, if it is in your templates folder, it still needs a controller to resolve it. If I am understanding your question correctly. Look at the folder structure in the exercise files and compare it to that.

∧ | ∨ • Reply • Share ›

Alex Gómez → Bryan Hansen • 6 hours ago

well It was a silly mistake, I was wrong to put the file in the wrong directory

∧ | ∨ • Reply • Share ›

Bryan Hansen → Alex Gómez • 6 hours ago

That can sure be frustrating! It is a great reminder of springs convention over configuration though. Glad you are up and running!

∧ | ∨ • Reply • Share ›

Kavya Sitani • 4 days ago • edited

I want to know how to add war file in tomcat using eclipse. I didnt get. Please help me

∧ | ∨ • Reply • Share ›

Bryan Hansen → Kavya Sitani • 4 days ago

This is the same thing in STS. It should tell you everything you need to know. The approach is almost exactly the same.

Walk through of Demo 3 of my Spring Fundamentals: Spring ...
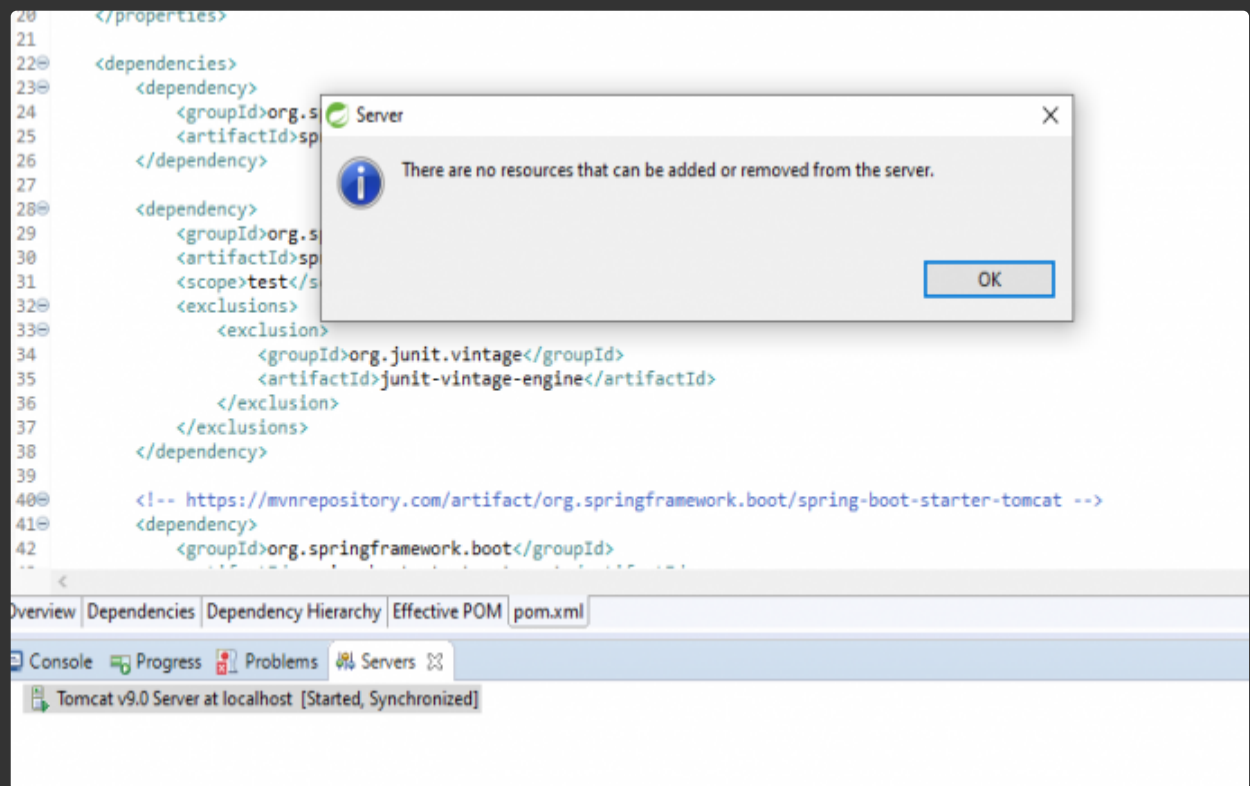
∧ | ∨ • Reply • Share ›

Chaitanya Vuppuluri • 5 days ago

Hi Brian,
Great Course!

I am in chapter 3 now. I use STS for my development. I am able to get the webapp running with embedded tomcat server. However I am facing a problem in using stand alone webserver from STS. I am able to add the tomcat 9 server to the servers view. I updated the packaging in pom.xml to 'war'. I checked that the target folder has war file generated

packaging in pom.xml to "war". I checked that the target folder has war file generated.
However I am not sure about the procedure to add the war file into the tomcat server. Any
help is greatly appreciated.

```
20    </properties>
21
22⊖    <dependencies>
23⊖        <dependency>
24            <groupId>org.s|
25            <artifactId>sp|
26        </dependency>
27
28⊖        <dependency>
29            <groupId>org.s|
30            <artifactId>sp|
31            <scope>test</s|
32⊖            <exclusions>
33⊖                <exclusion>
34                    <groupId>org.junit.vintage</groupId>
35                    <artifactId>junit-vintage-engine</artifactId>
36                </exclusion>
37            </exclusions>
38        </dependency>
39
40⊖        <!-- https://mvnrepository.com/artifact/org.springframework.boot/spring-boot-starter-tomcat -->
41⊖        <dependency>
42            <groupId>org.springframework.boot</groupId>
```

Server ✕

ℹ️ There are no resources that can be added or removed from the server.

OK

Overview | Dependencies | Dependency Hierarchy | Effective POM | pom.xml

📃 Console �
𝄞 Progress 🔲 Problems 🖧 Servers ⊠

🔲 Tomcat v9.0 Server at localhost [Started, Synchronized]

```
    </parent>
    <groupId>com.pluralsight</groupId>
    <artifactId>conference</artifactId>
    <version>0.0.1-SNAPSHOT</version>
    <packaging>war</packaging>
    <name>conference</name>
    <description>Demo project for Spring Boot</description>
```
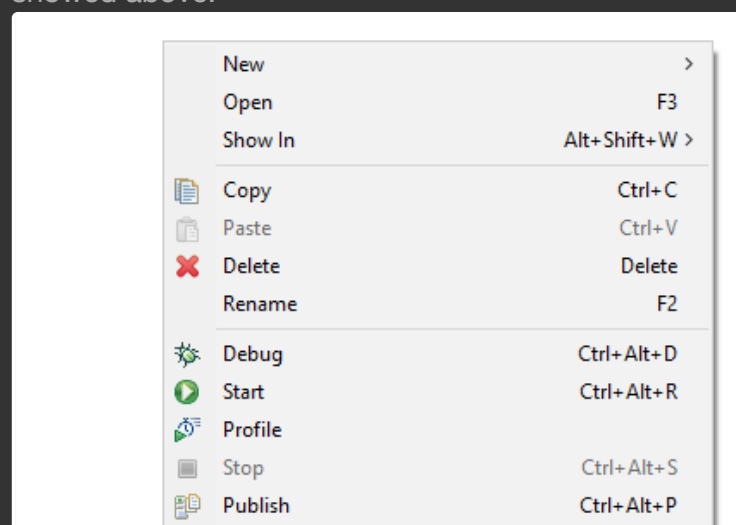
∧ | ∨ • Reply • Share ›

Bryan Hansen ➜ Chaitanya Vuppuluri • 5 days ago
When you right click on the server you created in the servers tab, there should be an
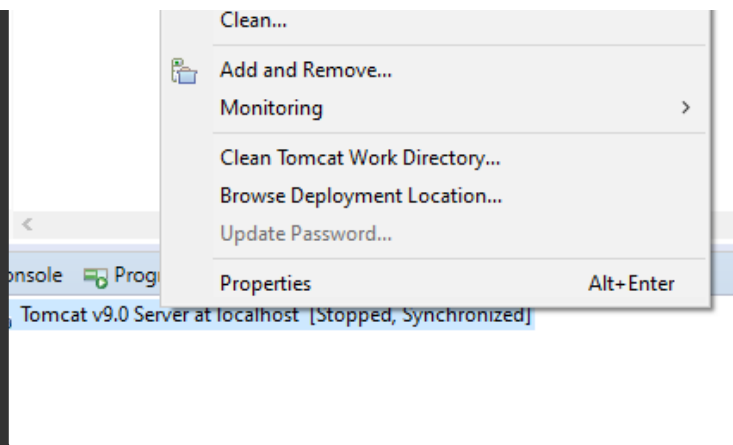option to add your project.

∧ | ∨ • Reply • Share ›

Chaitanya Vuppuluri ➜ Bryan Hansen • 5 days ago
I see the below options. When I click Add and Remove, I get the message I
showed above.

New	>
Open	F3
Show In	Alt+Shift+W >
📋 Copy	Ctrl+C
📋 Paste	Ctrl+V
✖ Delete	Delete
Rename	F2
🐞 Debug	Ctrl+Alt+D
▶ Start	Ctrl+Alt+R
👁 Profile	
⬛ Stop	Ctrl+Alt+S
📑 Publish	Ctrl+Alt+P

```
                              Clean...
         [icon]  Add and Remove...
                 Monitoring                                          >

                 Clean Tomcat Work Directory...
                 Browse Deployment Location...
                 Update Password...

                 Properties                           Alt+Enter
```

```
<        nsole   [icon] Prog
        Tomcat v9.0 Server at localhost  [Stopped, Synchronized]
```

∧ | ∨ • Reply • Share ›

Bryan Hansen → Chaitanya Vuppuluri • 5 days ago

Didn't see your other image. Go to build and clean from the main menu. See if that does it. If not, right click on your project and click refresh. You have something stuck referencing the old jar type. Possibly try rebooting in case you have an old reference to a file.

∧ | ∨ • Reply • Share ›

Bryan Hansen → Chaitanya Vuppuluri • 5 days ago

Add and Remove...about three quarters of the way down that menu. That's the one you want.

∧ | ∨ • Reply • Share ›

Matthew Johnson • 5 days ago

Hi Brian,

I'm can't seem to resolve views at all within my application. When trying to access a view I get a Whitelabel Error Page with an error 404 or just an error 404.

∧ | ∨ • Reply • Share ›

Matthew Johnson → Matthew Johnson • 5 days ago

This is what the console output is:
2020-04-10 11:17:32.265 WARN 21156 --- [nio-8090-exec-1] o.s.w.s.r.ResourceHttpRequestHandler : Path with "WEB-INF" or "META-INF": [WEB-INF/views/welcome.jsp]

∧ | ∨ • Reply • Share ›

Bryan Hansen → Matthew Johnson • 5 days ago

It looks like it is unable to find your directory structure. Can you post an image of your directory tree?

∧ | ∨ • Reply • Share ›

Matthew Johnson → Bryan Hansen • 5 days ago

I've posted a picture of directory structure

∧ | ∨ • Reply • Share ›
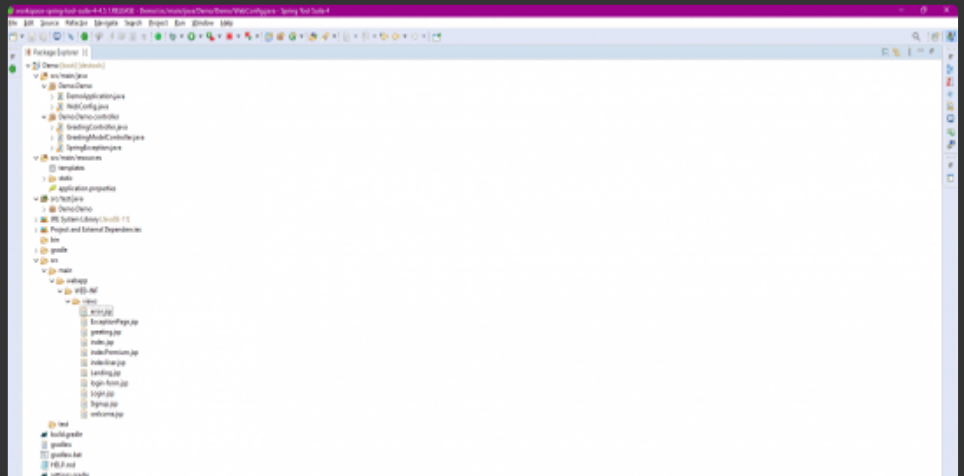
Bryan Hansen → Matthew Johnson • 5 days ago

It is odd, it isn't showing up here. Sorry, trying to help, just can't see it!
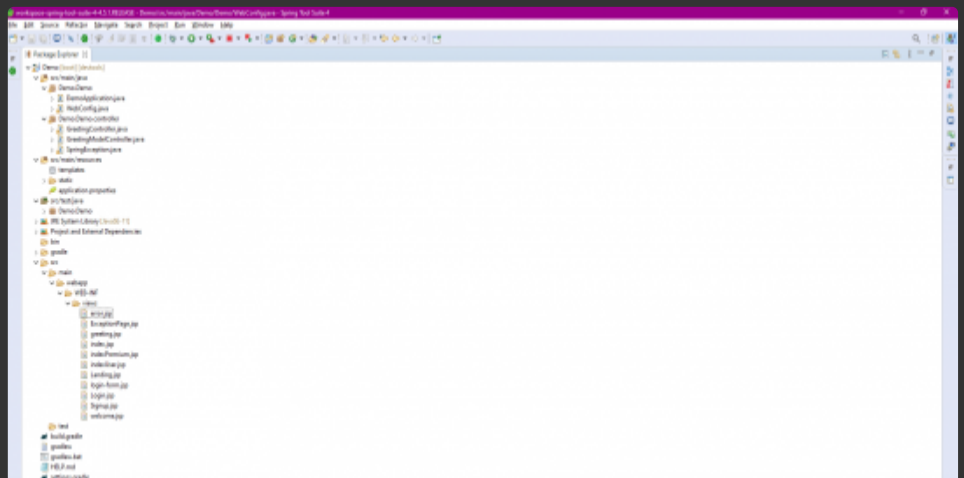
∧ | ∨ • Reply • Share ›

Matthew Johnson ↱ Bryan Hansen • 5 days ago

∧ | ∨ • Reply • Share ›

Matthew Johnson ↱ Bryan Hansen • 5 days ago

∧ | ∨ • Reply • Share ›

Bryan Hansen ↱ Matthew Johnson • 5 days ago

Using tomcat or the bundled jar? Have you compared your code to the exercise files?

∧ | ∨ • Reply • Share ›

Matthew Johnson ↱ Bryan Hansen • 5 days ago

tomcat, yes I couldn't see much difference however I'm using gradle instead of maven

∧ | ∨ • Reply • Share ›

Bryan Hansen ↱ Matthew Johnson • 5 days ago

I got an email saying you had submitted an image and now I don't see it here. Did you delete it? One thing I noticed when I navigated to it before I couldn't find it anymore is that the package structure was Demo.Demo and the project name is Demo. That shouldn't break anything, but Spring is a convention over configuration framework, meaning that if things are in the correct place, they just work without any extra configuration. I am wondering if that is why it is having a

hard time finding your views. There is a application.properties property to override the views location.

^ | ∨ • Reply • Share ›

> **Matthew Johnson** → Bryan Hansen • 4 days ago
>
> It's showing up for me at the moment. my application.properties contains the following:
> spring.mvc.view.prefix:/WEB-INF/views/
> spring.mvc.view.suffix:.jsp
> server.port=8090
>
> ^ | ∨ • Reply • Share ›

> **Bryan Hansen** → Matthew Johnson • 4 days ago
>
> Let's do this. Do you want to check in your code to get hub and share the link and ill download your code and see if I can spot something that way.
>
> ^ | ∨ • Reply • Share ›

Ernest Efe • 6 days ago

Thank you so much Mr Bryan. I really enjoyed this course. The best

^ | ∨ • Reply • Share ›

> **Bryan Hansen** → Ernest Efe • 5 days ago • edited
>
> Glad you enjoyed it! Make sure to give a star rating if you already haven't. Thanks!
>
> ^ | ∨ • Reply • Share ›

John Byers • 7 days ago • edited

Hello Brian, I like the course a lot so far.
In Exercise 6 - Resolving Static Files, I'm running into a problem. For whatever reason, accessing static pdf files, like localhost:8080/conference/files/ps.pdf responds with a 404 error.
Message: /conference/WEB-INF/jsp/error.jsp
Description: The origin server did not find current representation for the target resource or is not willing to disclose that one exists.

I tried using some simple .txt files, and those work just fine. (Which leads me to believe that my code is mostly correct). But PDFs for whatever reason just give me HTTP Status 404. It is also interesting, as before I started working with the ConferenceConfig.java file, I didn't get standard Tomcat error pages, rather I got that "Whitelabel Error Page" as seen in some of your demos. Now the error pages look like they are from Tomcat rather than Spring.

^ | ∨ • Reply • Share ›

> **Bryan Hansen** → John Byers • 6 days ago
>
> Curious what was the url that you used when calling the static txt files?
>
> ^ | ∨ • Reply • Share ›

> > **John Byers** → Bryan Hansen • 6 days ago
> >
> > A reboot this morning seems to have fixed the issues loading the PDFs.
> > Though I still do get Tomcat errors rather than "Whitelabel Error Page" errors

Though I still do get Tomcat errors rather than "Whitelabel Error Page" errors if I try to access something that isn't there. I commented out my
`@Bean`
`public ViewResolver viewResolver()...`

code from the ConferenceConfig file and that somehow brings back the Spring "Whitelabel" messages.
So I guess my question now is: Why is our custom ViewResolver unable to get us to error.jsp if we have a problem, while Spring manages to find error.jsp with whatever default ViewResolver it uses? (I don't even see an error.jsp page in my code so far...)

∧ | ∨ · Reply · Share ›

Bryan Hansen → John Byers · 6 days ago
Is the error.jsp one you're seeing from tomcat or does it appear to be served from Spring?

∧ | ∨ · Reply · Share ›

John Byers → Bryan Hansen · 6 days ago
It appears to be served from Tomcat, when using the custom ViewResolver from the lesson. Commenting that out brings back the one from Spring.

∧ | ∨ · Reply · Share ›

Bryan Hansen → John Byers · 6 days ago
Ok, so that is what I was thinking or let me speak out loud about the scenarios just so we're on the same page. When you have the view resolver in there, Spring is actually working and trying to fid a view (whether it is configured or not) to serve up. It doesn't give you the error from tomcat because the app is trying to serve the request up (even if it is unsuccessful). When you don't have it in there, the app is failing and Tomcat, not your app, server up a white label error page. Does that make sense?

∧ | ∨ · Reply · Share ›

John Byers → Bryan Hansen · 6 days ago
Yes, that makes sense, and what I expected. Is the error page from Spring a hidden error.jsp file somewhere? Just to test, I added an error.jsp file to the jsp directory, and went back to using our custom ViewResolver from the lesson, and purposely went to a non-existent page. Sure enough, I was sent to my error.jsp.
I'm wondering why when using Spring's default ViewResolver instead of our own, we get sent to that "WhiteLabel" error page. Is that configured somewhere?

Also, I'm really enjoying the course. I watched the last one you did with xml config and prefer this new one. Just my personal suggestion: I'd like a course/module that goes over why Spring is so popular over standard Servlet/JSP/JSTL. I am still trying to understand the benefits of Spring over the older stuff. So much in Spring seems like a

configuration mystery, and I keep going back to Servlet/JSP.

∧ | ∨ · Reply · Share ›

Emile ASTIH · 12 days ago

@**Bryan Hansen** , what a great course.
Thank you, keep it up!

∧ | ∨ · Reply · Share ›

Bryan Hansen → Emile ASTIH · 12 days ago

Thank you! This really means a lot to me to hear you like it. :)

1 ∧ | ∨ · Reply · Share ›

Emile ASTIH · 15 days ago · edited

Dear Bryan,

When I run the exemple 03 on eclipse IDE with an embedded tomcat and by adding the
"tomcat-embed-jasper" to the pom.xml, it works fine (greeting >> JSP) which is great.
However, when I package my spring boot application to a WAR file and run it under tomcat
9.0.33 > webapp, the greetingControl doesn't work.
I download the exemple from the "Exercise files" to be sure and then I build up the WAR file,
but I am still having a problem when I call the URL :
"http://localhost:9999/conference/greeting", which is: "The origin server did not find a
current representation for the target resource or is not willing to disclose that one exists."

I searched a lot on the internet but no solution worked for me, can you please help ?

Best Regards,
Emile ASTIH

∧ | ∨ · Reply · Share ›

Bryan Hansen → Emile ASTIH · 15 days ago

I made a rough (unedited) video of complete walkthrough from downloading the IDE
to hitting the greeting page. Let me know if this doesn't address your question:

Walk through of Demo 3 of my Spring Fundamentals: Spring …

▶

Emile ASTIH ➤ Bryan Hansen · 15 days ago

Dear Bryan,

Thank you a lot for you quick and efficient response.
However I am using eclipse and I did a specific configuration so I can run the
spring boot application under tomcat directly from ecliipse.
But I think I did something wrong, I might be missing something.

So, I download Spring STS for eclipse and tried out my conference
application and It works fine with the steps that you provided.

Thanks again,

Best Regards,

⌃ | ⌄ · Reply · Share ›

Bryan Hansen ➤ Emile ASTIH · 15 days ago

Do you want me to try and do it through Eclipse or are you good with
how it is now?

⌃ | ⌄ · Reply · Share ›

Emile ASTIH ➤ Bryan Hansen · 14 days ago

Dear Bryan,

Thanks a lot, in fact I redid it yesterday with Standard Eclipse
configuration and I fixed it.
I really appreciate it :)

Good luck
Best Regards,

⌃ | ⌄ · Reply · Share ›

Saurabh Chandra · 22 days ago

Dear Bryan,
I get a 404 error for my /greeting url. I have added the greeting.jsp file in the webapp folder.
It shows in the WebContent folder in Eclipse. What coould be the reason? Here is my
controller code

```
@Controller
public class GreetingController {

@GetMapping("/greeting")
public String greeting(Map<string, object=""> model) {
model.put("message", "Hello Saurabh");
//look for jsp page with the name in return string
return "greeting";

}
}
```
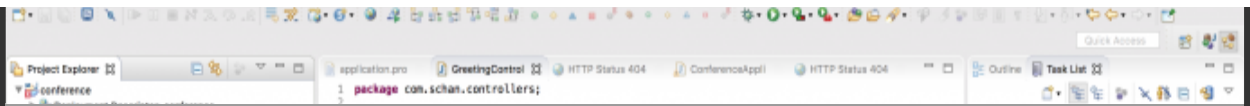
∧ | ∨ · Reply · Share ›

Ersin Erdem → Saurabh Chandra · 21 days ago

https://www.yawintutor.com/...

You need to add tomcat-embed-jasper dependency. Explained in the link above. I also spent time on this error. I am using STS actually.

∧ | ∨ · Reply · Share ›

Saurabh Chandra → Ersin Erdem · 17 days ago

I use eclipse. Adding the dependency did not help.

∧ | ∨ · Reply · Share ›

Bryan Hansen → Ersin Erdem · 21 days ago

Actually you don't but it depends on how you are trying to run it. I do show adding the tomcat dependency in there, but I also still prefer (especially in STS) deploying it to a standalone Tomcat server which eliminates the embedded jasper dependency. There are obviously more than one way to solve this though.

∧ | ∨ · Reply · Share ›

Bryan Hansen → Saurabh Chandra · 22 days ago

What does your AppConfig look like?

∧ | ∨ · Reply · Share ›

Saurabh Chandra → Bryan Hansen · 17 days ago

Pardon my ignorance here but what is AppConfig? I just created the Greeting Controller.
I would like to add that the base url is working fine i.e. a call to http://localhost:8080/conference/ displays the page with Hello message from index.html

∧ | ∨ · Reply · Share ›

Bryan Hansen → Saurabh Chandra · 17 days ago

Ok, sorry, was trying to wade through some cross posting. You have the app running and the greeting page is showing up, correct? You're using eclipse or sts?

∧ | ∨ · Reply · Share ›

Saurabh Chandra → Bryan Hansen · 17 days ago

No, Bryan.
greeting.jsp is not being rendered. Which means, a call to http://localhost:8080/conference/greeting displays 404.
However, http://localhost:8080/conference/ displays index.html

I am using eclipse.

∧ | ∨ · Reply · Share ›

Bryan Hansen → Saurabh Chandra · 17 days ago

Ok, now we're on the same page. What folder is your jsp page under? What does the method look like returning the string? If you want to check in your code to github I'm happy to pull it from there too.

∧ | ∨ · Reply · Share ›

Saurabh Chandra → Bryan Hansen · 16 days ago

Hi Bryan,
Thank you for all the help. I have just uploaded my code to git. You can pull it from the url https://github.com/l4tech/c...

∧ | ∨ · Reply · Share ›

Bryan Hansen → Saurabh Chandra · 16 days ago

Just looking on my phone quickly, it looks like the location of your WEB-INF/pages directory. Maven won't pull it from there. Eclipse is using a non standard directory structure. Look at the exercise files in the course structure and that is where they need to be located.

∧ | ∨ · Reply · Share ›

Saurabh Chandra → Bryan Hansen · 16 days ago

I moved WEB-INF to webapp but still the problem persists. Have updated my changes to git. If you could please see.

∧ | ∨ · Reply · Share ›

Bryan Hansen → Saurabh Chandra · 16 days ago · edited

Ok, my comment still holds true. I have forked your project and your maven project is not setup correctly. Just so you can understand the steps I have gone through to solve it, I forked the project, downloaded it to my local repo and then ran mvn package. Looking at the built war, there is nothing in it. By default mvn builds code and packages it based off of location. Your Webcontent dir is not under src and mvn is not pulling from there. Mvn and Spring both follow convention over configuration meaning you need to adhere to their structure OR explicitly over ride it. You have different directories and haven't changed the configuration to point elsewhere. Look at the exercise files and you can see the structure that it needs to follow.

∧ | ∨ · Reply · Share ›

Arturs Bricis · a month ago

Hello Bryan, thanks for the great course.
I have a question: is there an easy way to configure jsp's on a community version of IDEA?

Cheers.

∧ | ∨ · Reply · Share ›

Bryan Hansen → Arturs Bricis · a month ago

Unfortunately, not really. I would either download a trial of the Ultimate Edition or try Spring STS. You could also look at the student versions of Intellij (they are a full copy) and you might qualify for that.

∧ | ∨ · Reply · Share ›

Davin · a month ago · edited
I just wanted to say thank you for making this course; I learned a lot!
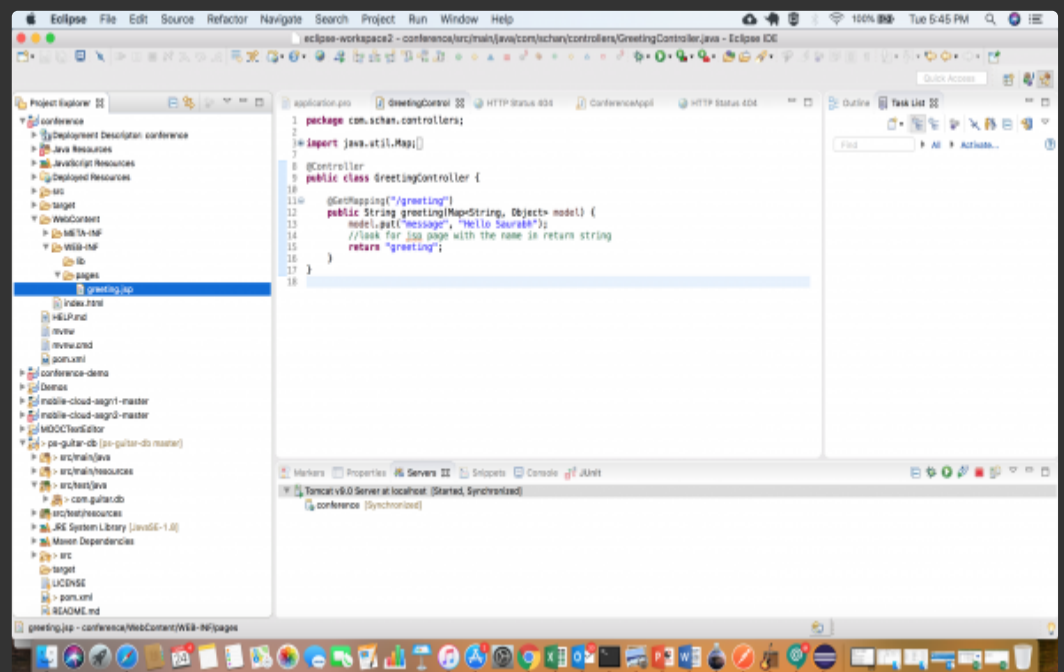
∧ | ∨ · Reply · Share ›

Bryan Hansen → Davin · a month ago
Awesome! Glad you enjoyed it!

∧ | ∨ · Reply · Share ›

Saurabh Chandra → Bryan Hansen · 22 days ago

Dear Bryan,
I get a 404 error for my /greeting url. I have added the greeting.jsp file in the webapp folder. It shows in the WebContent folder in Eclipse. What coould be the reason? Here is my controller code

@Controller
public class GreetingController {

@GetMapping("/greeting")
public String greeting(Map<string, object=""> model) {
model.put("message", "Hello Saurabh");
//look for jsp page with the name in return string
return "greeting";
}
}

∧ | ∨ · Reply · Share ›

Bryan Hansen → Saurabh Chandra · 22 days ago
@Saurabh@**Saurabh Chandra** can you start your question in its own thread. It is easy for these to get lost.

Mohammad Tahawi • 2 months ago

@Bryan Hansen

Hi again :)

I just finished your course, excellent work. Thank you !

one last question
When trying the example of a post request to the user controller using postman, I am getting an error
Content type 'multipart/form-data;boundary=----WebKitFormBoundaryUQqqF50uBAAWBT6h;charset=UTF-8' not supported"

if I try sending raw json it works just fine, but any other content type is giving me a content type error

Any ideas ?
Thanks

Bryan Hansen ➤ Mohammad Tahawi • 2 months ago

It looks like you may need to set the post type differently

Mohammad Tahawi ➤ Bryan Hansen • 2 months ago

Do you mean setting the content-type header from postman ?
or are you talking about something in my spring app ?

Any more details I can provide to make this clearer ?

Bryan Hansen ➤ Mohammad Tahawi • 2 months ago

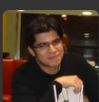Both actually. Make sure the content type in post man is correct and your method is set for a post.

Bryan Hansen • 2 months ago

BTW, if any of you are looking for XML configuration, my old course is retired, but still accessible.

Mohammad Tahawi • 2 months ago

Hi **@Bryan Hansen** !

Thanks for the course !

I have a question: https://stackoverflow.com/q...

in a summary:
if I use any name other than `localeResolver` for the bean method in my Configuration class I

get the following exception: Cannot change HTTP accept header – use a different locale resolution strategy

1- Why is this happening? what is happening behind the scene ?
2- How should we name the beans method Configuration classes ? I thought the name can be completely random ?

Thanks again

Course author

Bryan Hansen

Bryan is a Director at Software Technology Group, a consulting company based out of Salt Lake City, and has authored and taught numerous courses in Java. Over the years, Bryan has taught courses on...

Course info

Level	Beginner
Rating	★★★★⯪ (27)
My rating	★★★★★
Duration	2h 32m
Released	12 Feb 2020

Share course

f   𝕏   in