

## Spring MVC – What ?:



01-spring-mvc-overview.pdf

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### Spring MVC Front Controller

Front controller known as DispatcherServlet

- Part of the Spring Framework
- Already developed by Spring Dev Team

You will create

- Model objects (orange)
- View templates (dark green)
- Controller classes (yellow)

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- 99. Development Environment Checkpoint
- 100. Download Spring MVC Starter Files
- 101. Spring MVC Configuration - Overview
- 102. Spring MVC Configuration - JAR Files
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- 104. FAQ: How to configure the Spring Dispatcher Servlet using all Java Code (no xml)

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02-spring-behind-the-scenes.pdf

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### View Template (more)

- Other view templates supported
  - Thymeleaf, Groovy
  - Velocity, Freemarker, etc...
- For details, see:  
[www.luv2code.com/spring-mvc-views](http://www.luv2code.com/spring-mvc-views)

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03-spring-dev-environment-checkpoint.pdf

## Spring MVC Configuration



04-spring-mvc-configuration-overview.pdf

Can be any name

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### Step 1: Configure Spring DispatcherServlet

File: web.xml  
web-app>

```
<servlet>
    <servlet-name>dispatcher</servlet-name>
    <servlet-class>org.springframework.web.servlet.DispatcherServlet</servlet-class>
    ...
</servlet>

<servlet-mapping>
    <servlet-name>dispatcher</servlet-name>
    <url-pattern>/url-patterns</url-pattern>
</servlet-mapping>

```

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Section 13: Spring MVC - Request Params and Request Mappings 6 / 6 | 17min

Section 14: Spring MVC - Form Tags and Data Binding 15 / 15 | 46min

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### Step 2: Set up URL mappings to Spring MVC Dispatcher Servlet

File: web.xml  
web-app>

```
<servlet>
    <servlet-name>dispatcher</servlet-name>
    <servlet-class>org.springframework.web.servlet.DispatcherServlet</servlet-class>
    ...
</servlet>

<servlet-mapping>
    <servlet-name>dispatcher</servlet-name>
    <url-pattern>/url-patterns</url-pattern>
</servlet-mapping>

```

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**Step 3: Add support for Spring component scanning**

File: spring-mvc-demo-servlet.xml

```
<beans>
<!-- Step 3: Add support for component scanning -->
<context:component-scan base-package="com.luv2code.springdemo" />
</beans>
```

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**View Resolver Configs - Explained**

- When your app provides a "view" name, Spring MVC will
- prepend the prefix
- append the suffix

where to look for view files

```
<bean
    class="org.springframework.web.servlet.view.InternalResourceViewResolver"
    property name="prefix" value="/WEB-INF/view/" />
<property name="suffix" value=".jsp" />
</bean>
```

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## View Resolver Configs - Explained

```

<bean
    class="org.springframework.web.servlet.view.InternalResourceViewResolver">
    <property name="prefix" value="/WEB-INF/view/"/>
    <property name="suffix" value=".jsp"/>

```

prefix      view name      suffix

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For this course src/main/java is deleted and src is added

Also for webapp is to be renamed.

These 2 steps are not mandatory. It is just done for ease of purpose

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## New Dynamic Web Project

Web Module

Configure web module settings.

Context root: spring-mvc-demo

Content directory: src/main/webapp

Generate web.xml

WebContent

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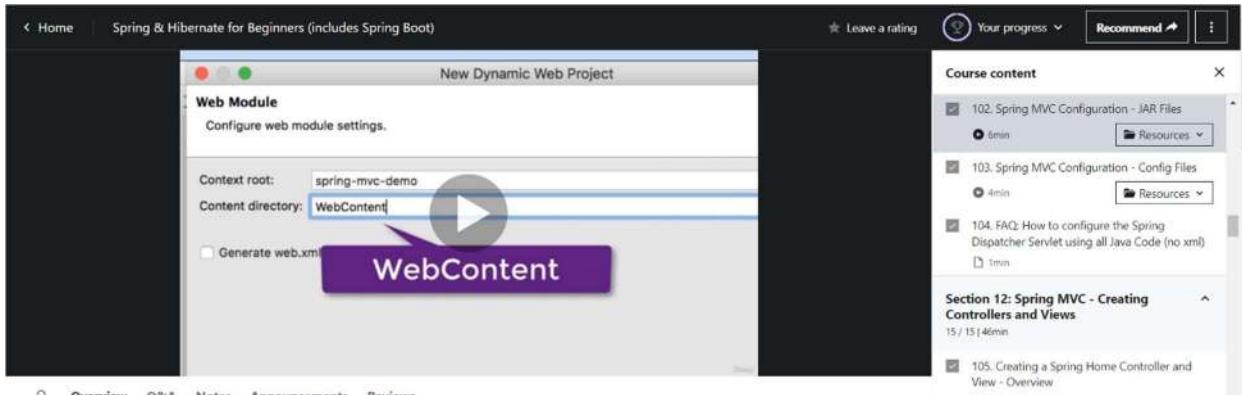
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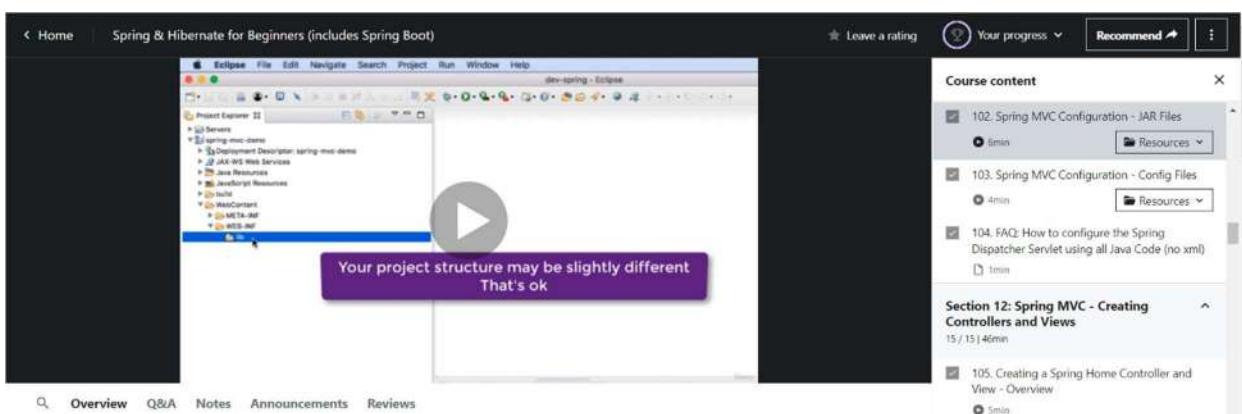
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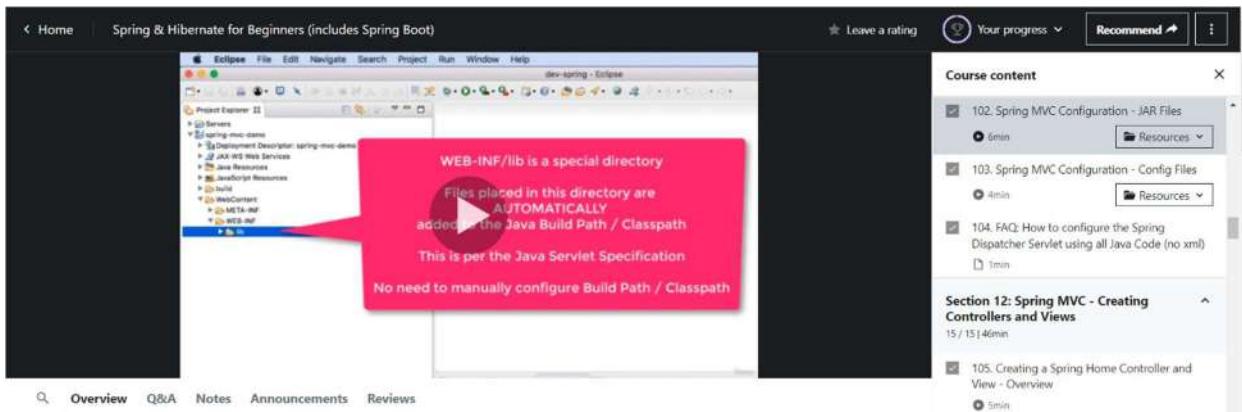
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- 15 / 15 | 46min
- 105. Creating a Spring Home Controller and View - Overview
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1 min Resources

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5 min Resources
- 106. Creating a Spring Home Controller and View - Write Some Code - Part 1  
5 min Resources
- 107. Creating a Spring Home Controller and View - Write Some Code - Part 2  
2 min Resources
- 108. FAQ: HELP! My Spring MVC Controller is not working. What to do?

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103-faq-how-to-configure-the-spring-dispa

## Simple Spring MVC Controller



05-spring-mvc-home-controller-overview.p

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### Step 2: Define Controller method

```
@Controller  
public class HomeController {  
  
    public String showMyPage() {  
        ...  
    }  
}
```

Spring MVC is flexible.  
You can use any method name

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- 109. FAQ: HELP! - Can't Start Tomcat - Ports are in Use! 1min Resources
- 110. FAQ: How Does Component Scan Work - Your Package Names are Different! 1min
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### Step 3: Add Request Mapping to Controller method

```
@Controller  
public class HomeController {  
  
    @RequestMapping("/")  
    public String showMyPage() {  
        ...  
    }  
}
```

Annotation maps a path to a method name  
That's why you can choose any method name

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## Sample Code

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- 111. Reading HTML Form Data - Overview
- 112. Reading HTML Form Data - Write Some Code - Part 1

prefix View name suffix

The screenshot shows the Eclipse IDE interface. On the left is the Project Explorer with a 'HomeController.java' file selected. The code defines a controller with a single method 'showPage()' that returns a string 'main-menu'. On the right is the Navigator view showing a 'main-menu.jsp' file under 'InternalResourceViewResolver'. Below the code editor, there's a preview of the JSP page with three callout bubbles: 'prefix' pointing to the '/WEB-INF/view/' directory, 'View name' pointing to 'main-menu.jsp', and 'suffix' pointing to the '.jsp' extension.

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The screenshot shows the Eclipse IDE interface. On the left is the Project Explorer with a 'HomeController.java' file selected. The code defines a controller with a single method 'showPage()' that returns a string 'Spring MVC Demo - Home Page'. On the right is the Navigator view showing a 'main-menu.jsp' file under 'InternalResourceViewResolver'. Below the code editor, there's a preview of the JSP page with a smiling man's face.

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109-faq-how-does-component-scan-work

## Spring MVC Hello Name – Form Example:



06-spring-mvc-hello-world-form-and-mod

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### Application Flow

The diagram illustrates the application flow. A user inputs data into a form labeled "HelloWorld-form.jsp". This form has a "showForm" button, which triggers a "RequestMapping" to the "HelloWorld Controller". The controller then processes this request and generates a response, which is displayed as "helloworld.jsp". This page contains the text "Hello World of Spring!" and "Student name: John Doe".

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- 113. Reading HTML Form Data - Write Some Code - Part 2
- 114. Reading HTML Form Data - Write Some Code - Part 3
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- 116. Adding Data to the Spring Model - Write Some Code - Part 1
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### Controller Class

```

@Controller
public class HelloController {
    // need a controller method to show the initial HTML form
    @RequestMapping("/showForm")
    public String showForm() {
        return "helloworld-form";
    }

    // need a controller method to process the HTML form
    @RequestMapping("/processForm")
    public String processForm() {
        return "helloworld";
    }
}

```

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### Development Process

Step-By-Step

- Create Controller class
- Show HTML form
  - Create controller method to show HTML Form
  - Create View Page for HTML form
- Process HTML Form
  - Create controller method to process HTML Form
  - Develop View Page for Confirmation

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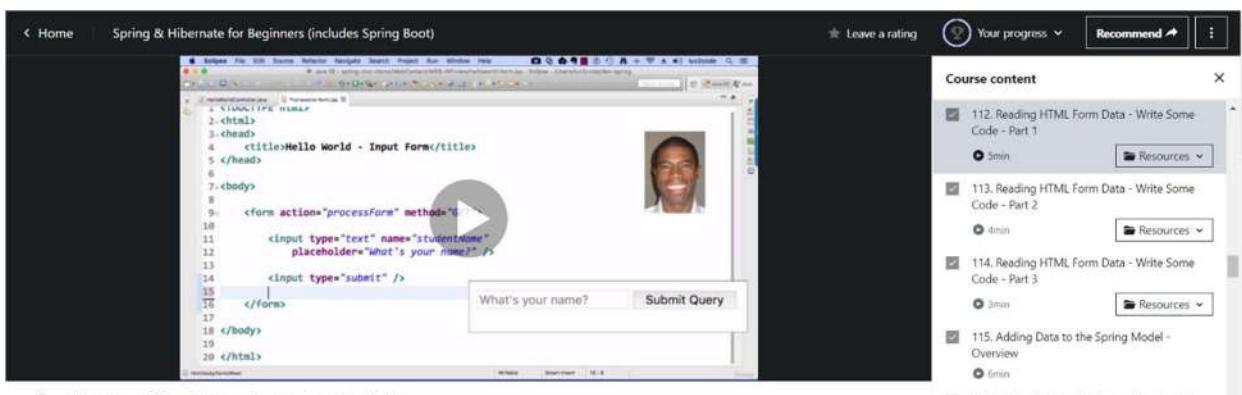
```
1 // need a controller method to show the initial HTML form
2
3 import org.springframework.stereotype.Controller;
4 import org.springframework.web.bind.annotation.RequestMapping;
5
6 @Controller
7 public class HelloWorldController {
8
9     // need a controller method to show the initial HTML form
10
11     @RequestMapping("/showForm")
12     public String showForm() {
13         return "helloworld-form";
14     }
15
16     // need a controller method to process the HTML form
17
18     @RequestMapping("/processForm")
19     public String processForm() {
20         return "helloworld";
21     }
22 }
```

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- 114. Reading HTML Form Data - Write Some Code - Part 3
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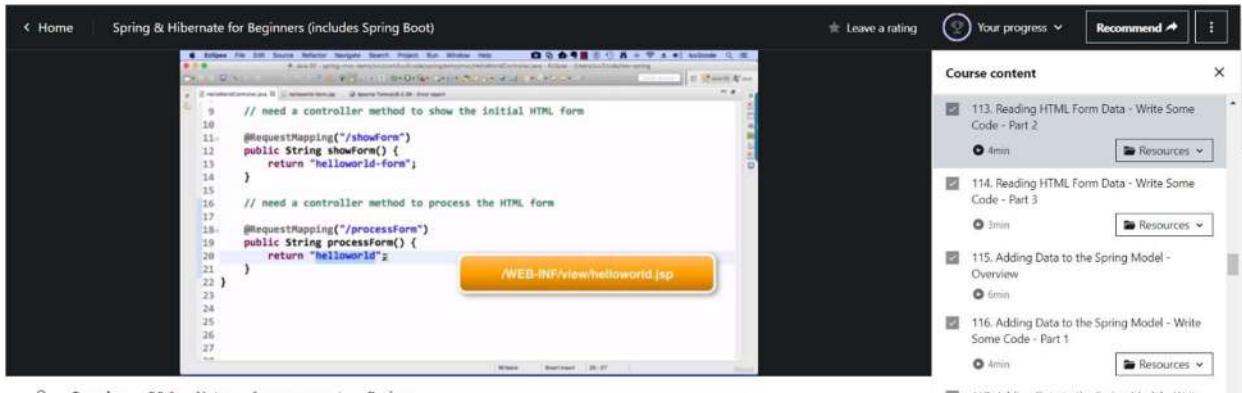
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- 117. Adding Data to the Spring Model - Write Some Code - Part 2
- 118. FAQ: How to use CSS, JavaScript and Images in Spring MVC Web App
- 119. Bonus: Deploying To Tomcat using WAR

name of HTML form field

Hello World of Spring!

Student name: John Doe

Play button

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Spring MVC Demo - Home Page

/showForm

Play button

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6min
- 116. Adding Data to the Spring Model - Write Some Code - Part 1  
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1min
- 119. Bonus: Deploying To Tomcat using WAR files  
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A screenshot of a video player interface. The main video frame shows a web browser window displaying a Spring Boot application's home page. The page has a simple form with a single input field and a submit button. Below the video frame is a control bar with standard media controls like play, pause, and volume, along with a progress bar showing 247 seconds.

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A screenshot of a video player interface. The main video frame shows a code editor window with Java code for a Thymeleaf template. The code includes imports for Thymeleaf and a main menu structure. A note at the bottom of the code area says "Add link to main-menu.jsp". Below the video frame is a control bar with standard media controls like play, pause, and volume, along with a progress bar showing 247 seconds.

(i.e) Instead of typing /showForm manually in URL every time

The screenshot shows a video player interface. On the left, there's a preview window of an Eclipse IDE showing Java code for a Spring MVC application. The code includes an HTML template with a link to 'showForm'. On the right, the main video player area displays a browser window showing the resulting web page titled 'Spring MVC Demo - Home Page' with the text 'Hello World form'. The video player has a play button in the center. Below the video player, there's course navigation information: Overview (selected), Q&A, Notes, Announcements, and Reviews. To the right of the video player is a sidebar titled 'Course content' containing a list of 11 video lessons, each with a title, duration, and a 'Resources' button. At the bottom right of the sidebar, it says 'Section 13: Spring MVC - Request'.

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## Adding Data to Spring Model



07-spring-mvc-adding-data-to-model-over

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**Section 13: Spring MVC - Request Params and Request Mappings**  
6 / 6 | 17min

**Section 14: Spring MVC - Form Tags**

**Code Block:**

```
@RequestMapping("/processFormVersionTwo")
public String letsShoutDude(HttpServletRequest request, Model model) {
    // read the request parameter from the HTML form
    String theName = request.getParameter("studentName");

    // convert the data to all caps
    theName = theName.toUpperCase();

    // create the message
    String result = "Yo! " + theName;

    // add message to the model
    model.addAttribute("message", result);

    return "helloworld";
}
```

**Annotations:**

- Holds HTML form data

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    theName = theName.toUpperCase();

    // create the message
    String result = "Yo! " + theName;

    // add message to the model
    model.addAttribute("message", result);

    return "helloworld";
}
```

**Annotations:**

- Container for your data

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```

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    // convert the data to all caps
    theName = theName.toUpperCase();

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    String result = "Yo! " + theName;

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```

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## View Template - JSP

```
<html><body>
Hello World of Spring!
...
The message: ${message}
</body></html>
```

// add message to the model  
model.addAttribute("message", result);

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## Coding

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```
2 remotedudeController.java
29     @RequestMapping("/processFormVersionTwo")
30     public String letsShowDude(HttpServletRequest request, Model model) {
31
32         // read the request parameter from the HTML form
33         String theName = request.getParameter("studentName");
34
35         // convert the data to all caps
36         theName = theName.toUpperCase();
37
38         // create the message
39         String result = "Yo!" + theName;
40
41         // add message to the model
42         model.addAttribute("message", result);
43
44         return "helloworld";
45
46
47 }
```

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**Section 15: Spring MVC Form Validation - Applying Built-In Validation Rules** 13 / 13 | 51min

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```
5 Hello World of Spring!
6
7 <br><br>
8 Student name: ${param.studentName}
9
10 The message: ${message}
11
12 <br><br>
13
14 // add message to the model
15 model.addAttribute("message", result);
16
17
18 </body>
19
20 </html>
21
22
23
```

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```
1 <!DOCTYPE html>
2 <html>
3 <head>
4   <title>Hello World - Input Form</title>
5 </head>
6 <body>
7   <form action="http://localhost:8080/spring5-hibernate-springboot/helloWorld" method="GET">
8     <input type="text" name="studentName"
9       placeholder="What's your name?" />
10    <input type="submit" />
11  </form>
12
13
14
15
16
17
```

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## Binding Request Param in form – Approach 2

08-spring-mvc-bindin-g-request-params-ov:

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```

45 }
46 }
47 }
48 @RequestMapping("/processFormVersionThree")
49 public String processFormVersionThree(
50     @RequestParam("studentName") String theName,
51     Model model) {
52
53     // read the request parameter from the HTML form
54     String theName = request.getParameter("studentName");
55
56     // convert the data to all caps
57     theName = theName.toUpperCase();
58
59     // create the message
60     String result = "Yo! " + theName;
61
62     // add message to the model
63     model.addAttribute("message", result);
64 }
```

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Since it happens behind the scene this piece is not required

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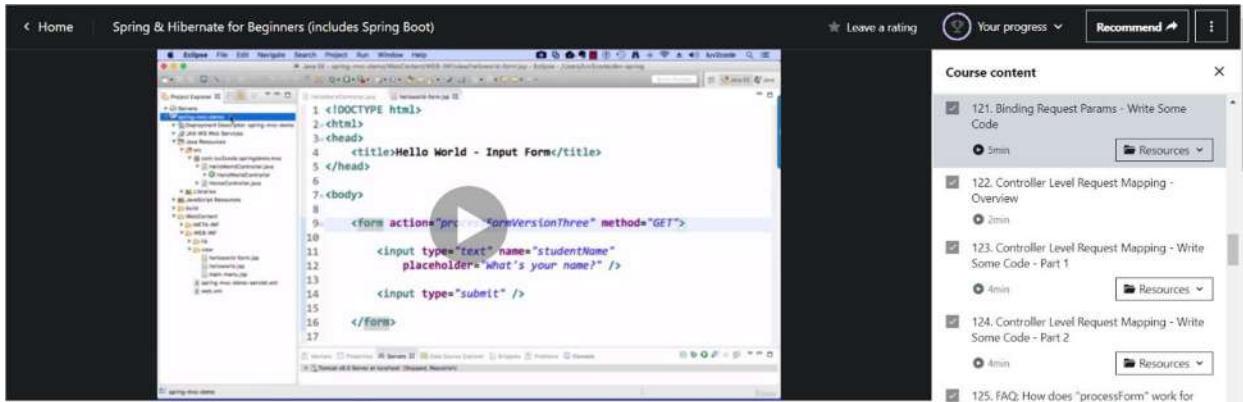
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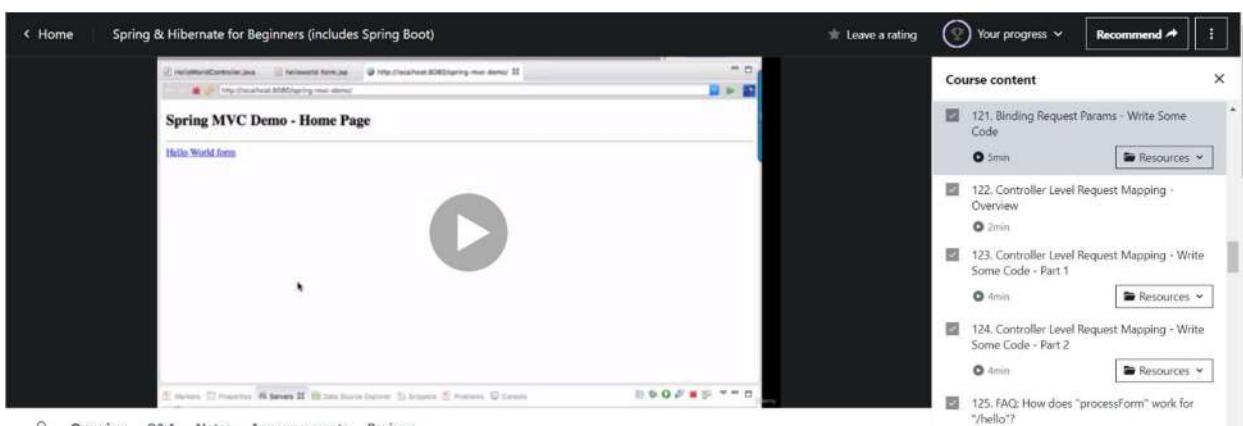


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## Controller Level Request Mapping



09-spring-mvc-request-mapping-for-controller

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### Controller Request Mapping

The diagram shows a code snippet for a controller class named FunnyController. It contains three @RequestMapping annotations: one for the root path '/funny', one for '/showForm', and one for '/processForm'. A blue callout bubble labeled 'Controller mapping' points to the first annotation. A play button icon is overlaid on the code area.

```
@RequestMapping("/funny")
public class FunnyController {
    ...
}
```

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Section 16: Spring MVC Form Validation - Validating Number Ranges and...

9 / 9 | 37min

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### Controller Request Mapping

The diagram shows the same code snippet for FunnyController. In addition to the 'Controller mapping' callout, a red callout bubble labeled 'Method mapping' points to the specific method name 'showForm'. An orange arrow points from the 'Controller mapping' bubble to the 'Method mapping' bubble, indicating they are related.

```
@RequestMapping("/funny")
public class FunnyController {
    ...
}
```

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Section 16: Spring MVC Form Validation - Validating Number Ranges and...

9 / 9 | 37min

```
18 @Controller
19 public class HelloWorldController {
20
21     // need a controller method to show the initial HTML form
22
23     @RequestMapping("/showForm")
24     public String showForm() {
25         return "helloworld-form";
26     }
27
28     // need a controller method to process the HTML form
29
30     @RequestMapping("/processForm")
31     public String processForm() {
32         return "helloworld";
33     }
34 }
```

Copy & Run Mapping from HelloWorldController

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- Section 15: Spring MVC Form Validation - Applying Built-In Validation Rules 13 / 13 | 51min
- Section 16: Spring MVC Form Validation - Validating Number Ranges and... 9 / 9 | 37min
- Section 17: Spring MVC Form Validation - Creating Custom Validation Rules 8 / 8 | 32min

Above pic and below pic have same method name but different mapping bcoz of different controller

```
1 package com.luv2code.springdemo.mvc;
2
3 import org.springframework.stereotype.Controller;
4 import org.springframework.web.bind.annotation.RequestMapping;
5
6 @Controller
7 public class HelloWorldController {
8
9     @RequestMapping("/showForm")
10    public String showForm() {
11        return "helloworld-form";
12    }
13 }
```

Copy & Run Mapping from HelloWorldController

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- Section 14: Spring MVC - Form Tags and Data Binding 15 / 15 | 54min
- Section 15: Spring MVC Form Validation - Applying Built-In Validation Rules 13 / 13 | 51min
- Section 16: Spring MVC Form Validation - Validating Number Ranges and... 9 / 9 | 37min
- Section 17: Spring MVC Form Validation - Creating Custom Validation Rules 8 / 8 | 32min

Get error

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To resolve this error.

Add parent mapping at the Controller level

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- 124. Controller Level Request Mapping - Write Some Code - Part 2
- 125. FAQ: How does "processForm" work for "hello"?

Section 14: Spring MVC - Form Tags and Data Binding

Section 15: Spring MVC Form Validation - Applying Built-In Validation Rules

Section 16: Spring MVC Form Validation - Validating Number Ranges and...

Section 17: Spring MVC Form Validation - Creating Custom Validation Rules

Section 18: Introduction to Hibernate

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```
10 @Controller
11 @RequestMapping("/hello")
12 public class HelloWorldController {
13
14     // need a controller method to show the initial HTML form
15
16     @RequestMapping("/showForm")
17     public String showForm() {
18         return "helloworld-form";
19     }
20
21     // need a controller method to process the HTML form
22
23     @RequestMapping("/processForm")
24     public String processForm() {
25         return "helloworld";
26     }
27
28     // new a controller method to read form data and
29     // add data to the model
```

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- 124. Controller Level Request Mapping - Write Some Code - Part 2
- 125. FAQ: How does "processForm" work for "hello"?

Section 14: Spring MVC - Form Tags and Data Binding

Section 15: Spring MVC Form Validation - Applying Built-In Validation Rules

Section 16: Spring MVC Form Validation - Validating Number Ranges and...

Section 17: Spring MVC Form Validation - Creating Custom Validation Rules

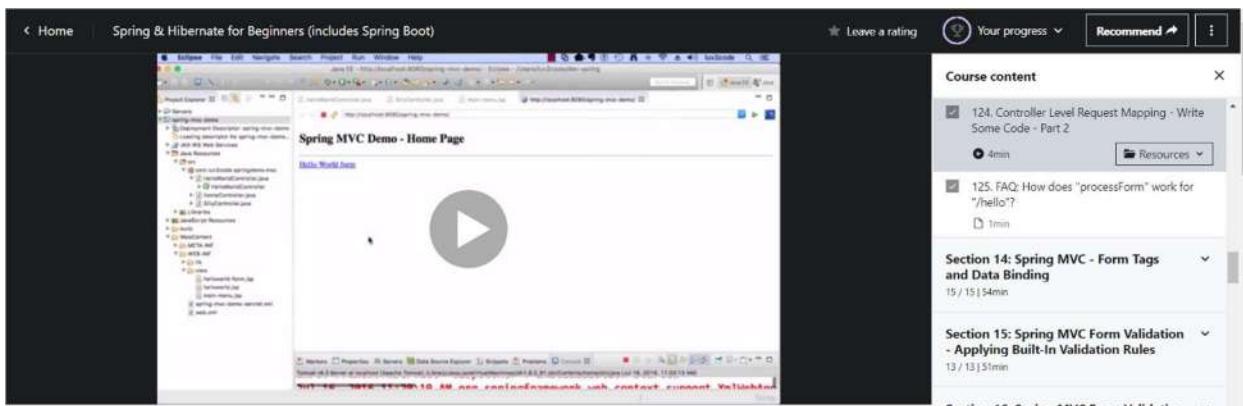
Section 18: Introduction to Hibernate

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```
1 <!DOCTYPE html>
2 <html>
3
4     <body>
5
6         <h2>Spring MVC Demo - Home Page</h2>
7
8         <br>
9
10        <a href="#">Hello World form</a>
11
12    </body>
13
14 </html>
```

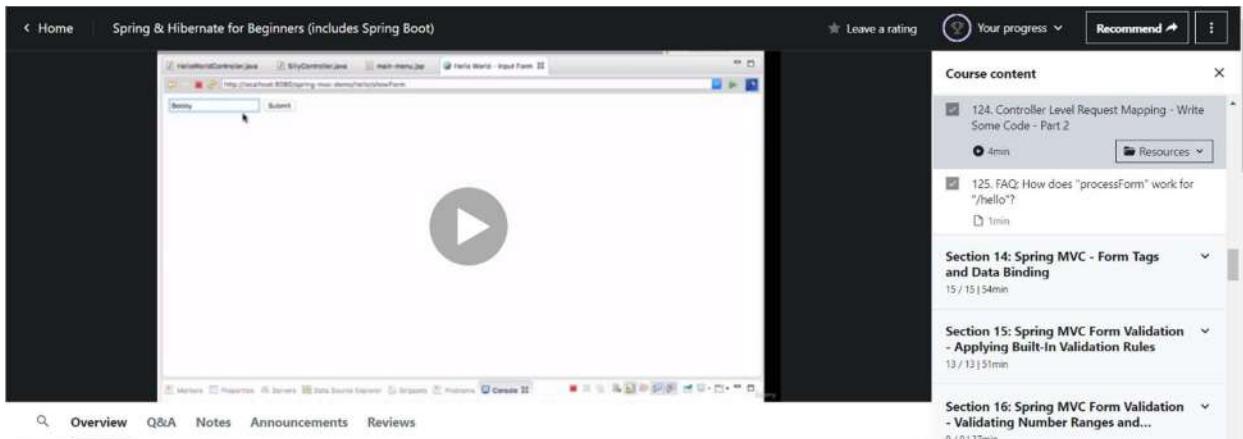
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**Course content**

- 124. Controller Level Request Mapping - Write Some Code - Part 2 (4min) Resources
- 125. FAQ: How does "processForm" work for "/hello"? (1min)
- Section 14: Spring MVC - Form Tags and Data Binding** (15 / 15 | 54min)
- Section 15: Spring MVC Form Validation - Applying Built-In Validation Rules** (13 / 13 | 51min)
- Section 16: Spring MVC Form Validation - Validating Number Ranges and...** (9 / 9 | 37min)
- Section 17: Spring MVC Form Validation - Creating Custom Validation Rules** (8 / 8 | 32min)
- Section 18: Introduction to Hibernate** (2 / 2 | 10min)

[124-faq-how-does-pr  
ocessform-work-for-h](#)

## Spring MVC Form Tags

**10-spring-mvc-form-t  
ags-overview.pdf**

**Spring MVC Form Tags**

- Form tags will generate HTML for you :-)

Form Tag	Description
form:form	main form container
form:input	text field
form:textarea	multi-line text field
form:checkbox	check box
form:radiobutton	radio buttons

[www.luv2code.com/spring-mvc-form-tags](http://www.luv2code.com/spring-mvc-form-tags)

**Course content**

- 126. Spring MVC Form Tags Overview (3min) Resources
- 127. Text Fields - Overview (6min)
- 128. Text Fields - Write Some Code - Part 1 (6min) Resources
- 129. Text Fields - Write Some Code - Part 2 (6min) Resources
- 130. Text Fields - Write Some Code - Part 3 (4min) Resources
- 131. Drop-Down Lists - Overview (2min)
- 132. Drop-Down Lists - Write Some Code - Part 1 (5min) Resources
- 133. Drop-Down Lists - Write Some Code - Part 2 (5min) Resources
- 134. FAQ: Use properties file to load country

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## Spring FormTags – TextField



11-form-tags-textfiel  
d-overview.pdf

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### Showing Form

In your Spring Controller

- Before you show the form, you must add a **model attribute**
- This is a bean that will hold form data for the **data binding**

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- 127. Text Fields - Overview
- 128. Text Fields - Write Some Code - Part 1
- 129. Text Fields - Write Some Code - Part 2
- 130. Text Fields - Write Some Code - Part 3
- 131. Drop-Down Lists - Overview
- 132. Drop-Down Lists - Write Some Code - Part 1
- 133. Drop-Down Lists - Write Some Code - Part 2
- 134. FAQ: Use properties file to load country options

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### Show Form - Add Model Attribute

Code snippet from Controller

```
@RequestMapping("/showForm")
public String showForm(Model theModel) {
    theModel.addAttribute("student", new Student());
    return "student-form";
}
```

Model is used to pass data between controllers and views

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- 129. Text Fields - Write Some Code - Part 2
- 130. Text Fields - Write Some Code - Part 3
- 131. Drop-Down Lists - Overview
- 132. Drop-Down Lists - Write Some Code - Part 1
- 133. Drop-Down Lists - Write Some Code - Part 2
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## Show Form - Add Model Attribute

Code snippet from Controller

```
@RequestMapping("/showForm")
public String showForm(Model theModel) {
    theModel.addAttribute("student", new Student());
    return "student-form";
}
```

attribute name → value

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- 129. Text Fields - Write Some Code - Part 2
- 130. Text Fields - Write Some Code - Part 3
- 131. Drop-Down Lists - Overview
- 132. Drop-Down Lists - Write Some Code - Part 1
- 133. Drop-Down Lists - Write Some Code - Part 2
- 134. FAQ: Use properties file to load country options

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## When Form is Loaded ... fields are populated

```
<form:form action="processForm" modelAttribute="student">
    First name: <form:input path="firstName" />
    <br><br>
    Last name: <form:input path="lastName" />
    <br><br>
    <input type="submit" value="Submit" />
</form:form>
```

When form is loaded,  
Spring MVC will call:  
`student.getFirstName()`

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- 131. Drop-Down Lists - Overview
- 132. Drop-Down Lists - Write Some Code - Part 1
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### When Form is submitted ... calls setter methods

```
<form:form action="processForm" modelAttribute="student">  
    First name: <form:input path="firstName" />  
    <br><br>  
    Last name: <form:input path="lastName" />  
    <br><br>  
    <input type="submit" value="Submit" />  
</form:form>
```

When form is submitted, Spring MVC will call:  
`student.setFirstName(..)`

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- 129. Text Fields - Write Some Code - Part 2 6min Resources
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- 131. Drop-Down Lists - Overview 2min Resources
- 132. Drop-Down Lists - Write Some Code - Part 1 5min Resources
- 133. Drop-Down Lists - Write Some Code - Part 2 5min Resources
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### When Form is submitted ... calls setter methods

```
<form:form action="processForm" modelAttribute="student">  
    First name: <form:input path="firstName" />  
    <br><br>  
    Last name: <form:input path="lastName" />  
    <br><br>  
    <input type="submit" value="Submit" />  
</form:form>
```

When form is submitted, Spring MVC will call:  
`student.setFirstName(..)`

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## Handling Form Submission in the Controller

Code snippet from Controller

```
@RequestMapping("/processForm")
public String processForm(@ModelAttribute("student") Student theStudent) {
    // log the input data
    System.out.println("theStudent = " + theStudent.getLastName());
    return "student-confirmation";
}
```

attribute name method parameter

Behind the scenes: the object is populated with form data :-)

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## Confirmation page

attribute name attribute name

```
<html>
<body>
    The student is confirmed: ${student.firstName} ${student.lastName}
</body>
</html>
```

The student is confirmed: John Doe

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Coding

A screenshot of a video player interface. The main area shows a Java code editor with the following code:1 package com.luv2code.springdemo.mvc;
2
3 public class Student {
4
5 private String firstName;
6 private String lastName;
7
8 public Student() {
9
10 }
11
12 public String getFirstName() {
13 return firstName;
14 }
15
16 public void setFirstName(String firstName) {
17 this.firstName = firstName;
18 }
19
20 public String getLastName() {
21
22 }

The video player has a play button in the center. Below the video player are navigation links: Overview, Q&A, Notes, Announcements, and Reviews.

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- 128. Text Fields - Write Some Code - Part 1  
6min Resources
- 129. Text Fields - Write Some Code - Part 2  
6min Resources
- 130. Text Fields - Write Some Code - Part 3  
4min Resources
- 131. Drop-Down Lists - Overview  
2min Resources
- 132. Drop-Down Lists - Write Some Code - Part 1  
5min Resources
- 133. Drop-Down Lists - Write Some Code - Part 2  
5min Resources
- 134. FAQ: Use properties file to load country options  
1min Resources
- 135. Radio Buttons - Overview  
2min Resources

A screenshot of a video player interface. The main area shows a Java code editor with the following code:6
7 @Controller
8 @RequestMapping("/student")
9 public class StudentController {
10
11 @RequestMapping("/showForm")
12 public String showForm(Model theModel) {
13
14 // create a student object
15 Student theStudent = new Student();
16
17 // add student object to the model
18 theModel.addAttribute("student", theStudent);
19
20 return "student-form";
21 }
22
23
24
25 }

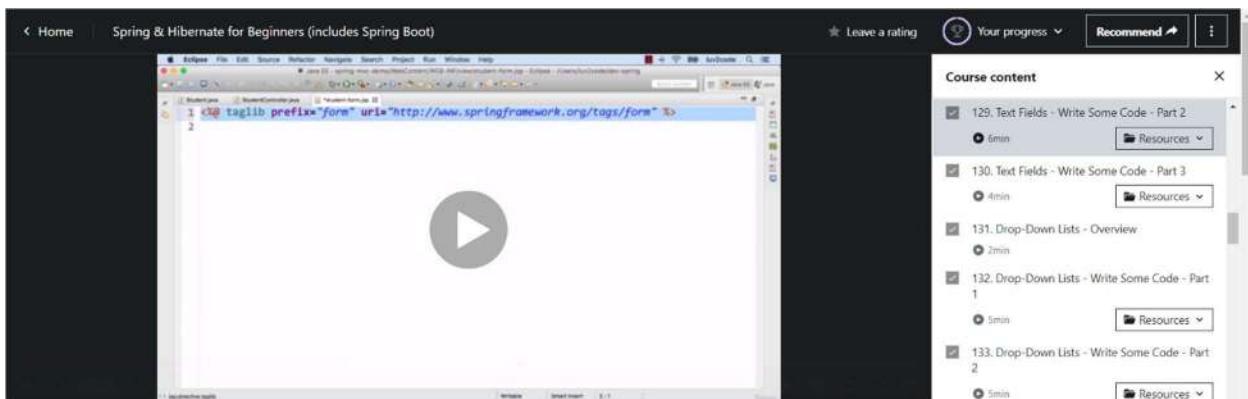
The video player has a play button in the center. Below the video player are navigation links: Overview, Q&A, Notes, Announcements, and Reviews.

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6min Resources
- 129. Text Fields - Write Some Code - Part 2  
6min Resources
- 130. Text Fields - Write Some Code - Part 3  
4min Resources
- 131. Drop-Down Lists - Overview  
2min Resources
- 132. Drop-Down Lists - Write Some Code - Part 1  
5min Resources
- 133. Drop-Down Lists - Write Some Code - Part 2  
5min Resources
- 134. FAQ: Use properties file to load country options  
1min Resources
- 135. Radio Buttons - Overview  
2min Resources



- 129. Text Fields - Write Some Code - Part 2
- 130. Text Fields - Write Some Code - Part 3
- 131. Drop-Down Lists - Overview
- 132. Drop-Down Lists - Write Some Code - Part 1
- 133. Drop-Down Lists - Write Some Code - Part 2
- 134. FAQ: Use properties file to load country options
- 135. Radio Buttons - Overview
- 136. Radio Buttons - Write Some Code

This screenshot is identical to the one above, but it includes a callout box and a red arrow pointing from the word "student" in the code snippet to the corresponding line in the controller code below. The callout box contains:

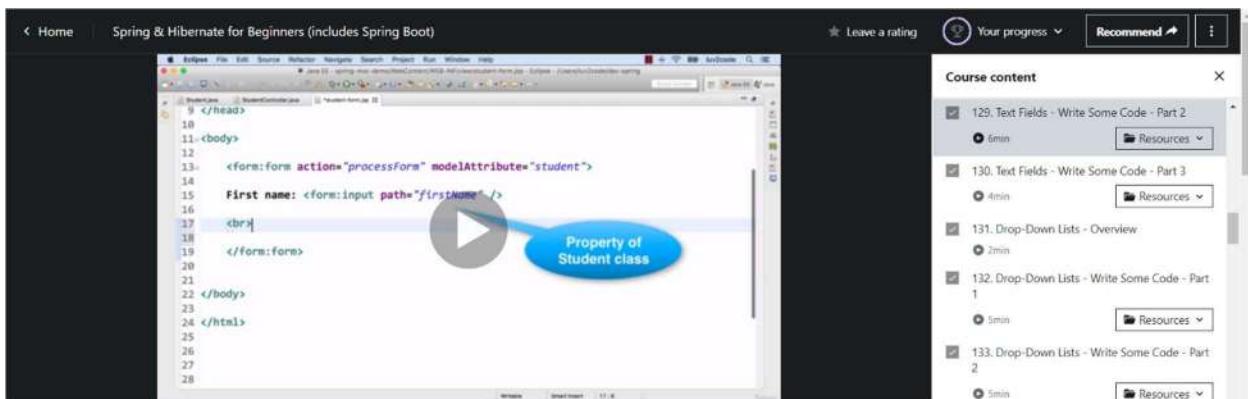
```
@RequestMapping("/showForm")
public String showForm(Model theModel) {
    theModel.addAttribute("student", new Student());
    return "student-form";
}
```

- 129. Text Fields - Write Some Code - Part 2
- 130. Text Fields - Write Some Code - Part 3
- 131. Drop-Down Lists - Overview
- 132. Drop-Down Lists - Write Some Code - Part 1
- 133. Drop-Down Lists - Write Some Code - Part 2
- 134. FAQ: Use properties file to load country options
- 135. Radio Buttons - Overview
- 136. Radio Buttons - Write Some Code

This screenshot is identical to the ones above, but it does not have the callout box or red arrow.

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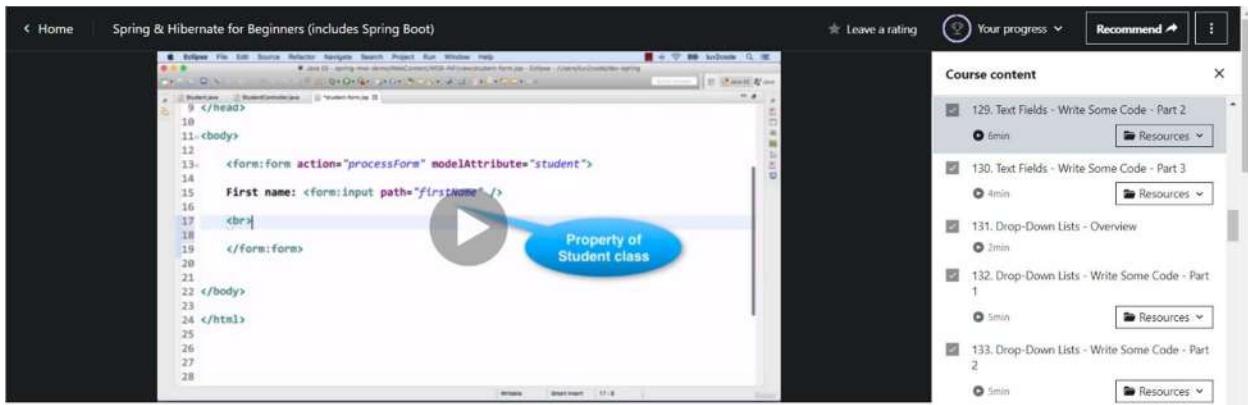
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- 132. Drop-Down Lists - Write Some Code - Part 1 5min [Resources](#)
- 133. Drop-Down Lists - Write Some Code - Part 2 5min [Resources](#)
- 134. FAQ: Use properties file to load country options 1min
- 135. Radio Buttons - Overview 2min
- 136. Radio Buttons - Write Some Code 5min [Resources](#)

```
<head>
  ...
<body>
  <form:form action="processForm" modelAttribute="student">
    First name: <form:input path="firstName" />
    <br><br>
    Last name: <form:input path="lastName" />
    <br><br>
    <input type="submit" value="Submit" />
  </form:form>
</body>
```

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- 132. Drop-Down Lists - Write Some Code - Part 1 5min [Resources](#)
- 133. Drop-Down Lists - Write Some Code - Part 2 5min [Resources](#)
- 134. FAQ: Use properties file to load country options 1min
- 135. Radio Buttons - Overview 2min
- 136. Radio Buttons - Write Some Code 5min [Resources](#)

```
theModel.addAttribute("student", theStudent);
}
return "student-form";
}

@RequestMapping("/processForm")
public String processForm(@ModelAttribute("student") Student theStudent) {
  ...
  return "student-confirmation";
}

<form:form action="processForm" modelAttribute="student">
  First name: <form:input path="firstName" />
  <br><br>
```

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```
19     theModel.addAttribute("student", theStudent);
20
21     return "student-form";
22 }
23
24 @RequestMapping("/processForm")
25 public String processForm(@ModelAttribute("student") Student theStudent) {
26
27     // log the input data
28     System.out.println("theStudent: " + theStudent.getFirstName()
29                         + " " + theStudent.getLastName());
30
31     return "student-confirmation";
32 }
33
34 }
```

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- 129. Text Fields - Write Some Code - Part 2
- 130. Text Fields - Write Some Code - Part 3
- 131. Drop-Down Lists - Overview
- 132. Drop-Down Lists - Write Some Code - Part 1
- 133. Drop-Down Lists - Write Some Code - Part 2
- 134. FAQ: Use properties file to load country options
- 135. Radio Buttons - Overview
- 136. Radio Buttons - Write Some Code

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Eclipse File Edit Source Refactor Navigate Search Project Run Window Help

```
1 <!DOCTYPE html>
2
3 <html>
4
5 <head>
6     <title>Student Confirmation</title>
7 </head>
8
9 <body>
10
11 The student is confirmed: ${student.firstName} ${student.lastName}
12
13 </body>
14
15 </html>
```

The student is confirmed: John Doe

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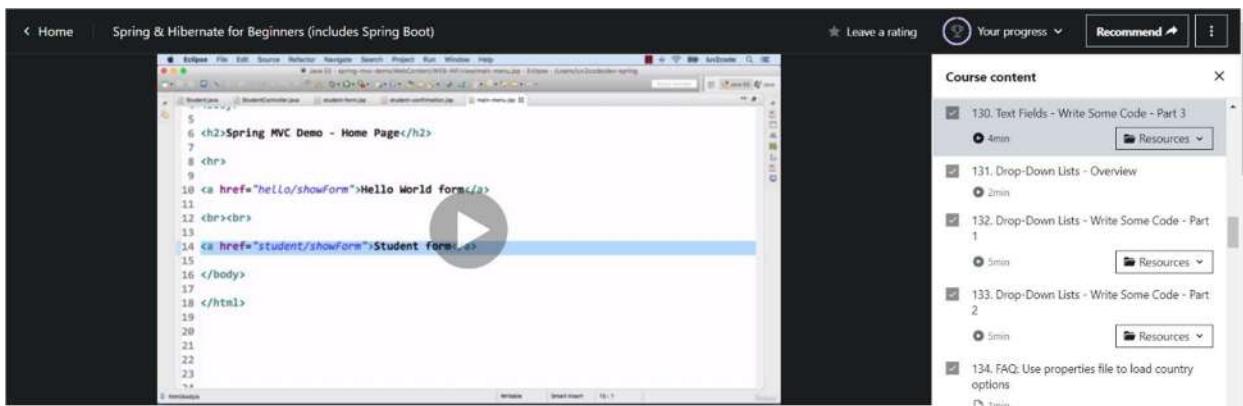
Course content

- 130. Text Fields - Write Some Code - Part 3
- 131. Drop-Down Lists - Overview
- 132. Drop-Down Lists - Write Some Code - Part 1
- 133. Drop-Down Lists - Write Some Code - Part 2
- 134. FAQ: Use properties file to load country options
- 135. Radio Buttons - Overview
- 136. Radio Buttons - Write Some Code
- 137. FAQ: How to populate radiobuttons with items from Java class?

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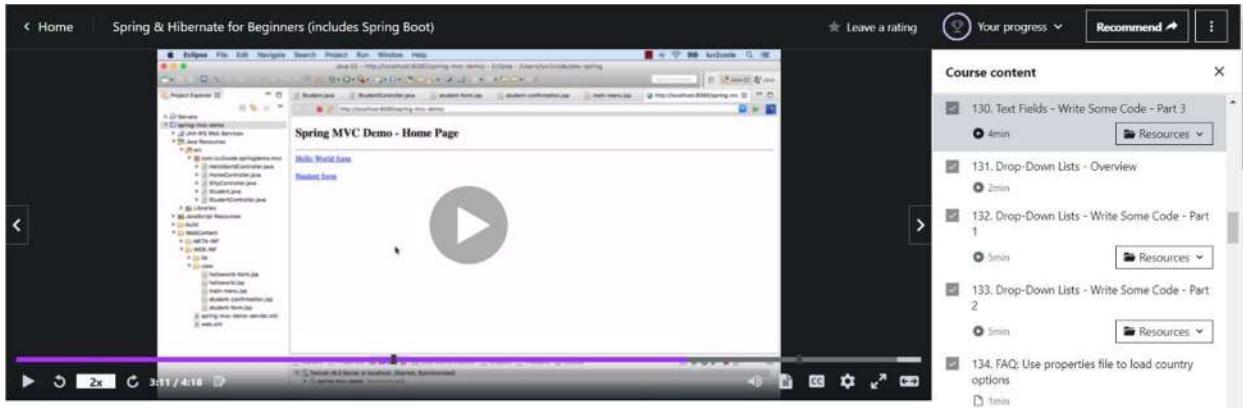
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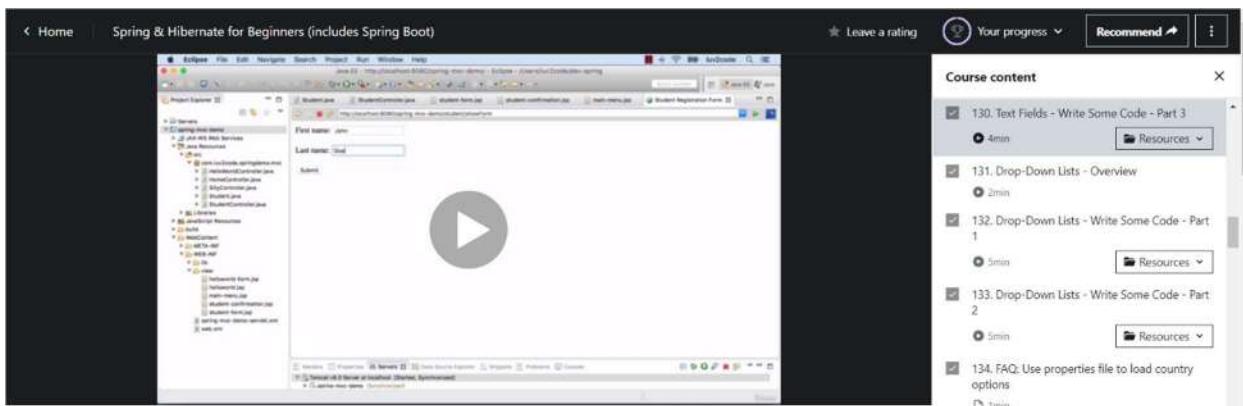
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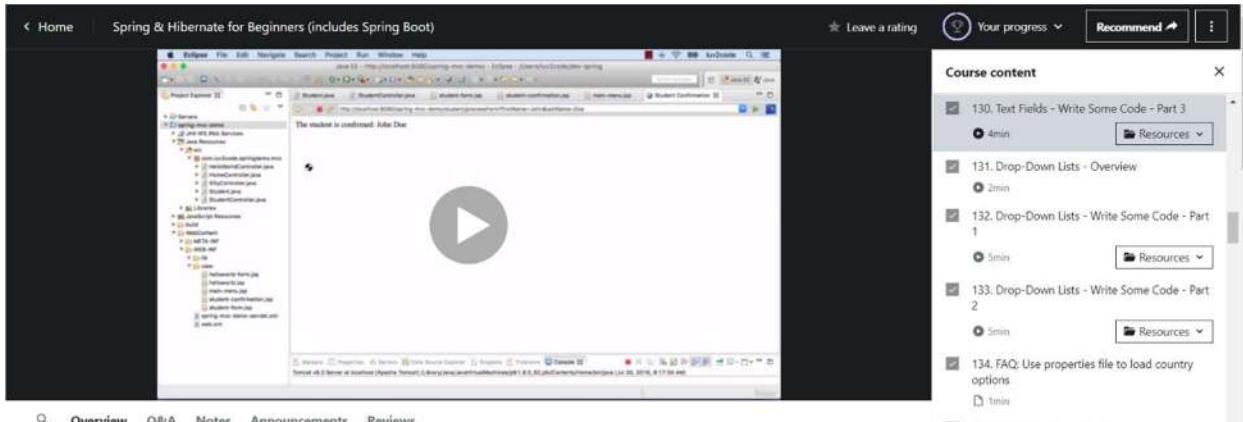
Spring 5: Learn Spring 5 Core, AOP, Spring MVC, Spring Security, Spring REST, Spring Boot 2, Thymeleaf, JPA & Hibernate

4.6 ★ 230,054 Students 42.5 hours Total



Spring 5: Learn Spring 5 Core, AOP, Spring MVC, Spring Security, Spring REST, Spring Boot 2, Thymeleaf, JPA & Hibernate

4.6 ★  
57,057 ratings  
230,054 Students  
42.5 hours Total



Spring 5: Learn Spring 5 Core, AOP, Spring MVC, Spring Security, Spring REST, Spring Boot 2, Thymeleaf, JPA & Hibernate

4.6 ★  
57,057 ratings  
230,054 Students  
42.5 hours Total

## Spring MVC Form Tag – Drop Down List



12-form-tags-dropown-overview.pdf

[Home](#) Spring & Hibernate for Beginners (includes Spring Boot)

## Review of HTML <select> Tag

First name:   
Last name:   
Country:  Submit

Plain HTML

```
<select name="country">
<option>Brazil</option>
<option>France</option>
<option>Germany</option>
<option>India</option>
...
</select>
```

www.luv2code.com

Course content

- 131. Drop-Down Lists - Overview 2min
- 132. Drop-Down Lists - Write Some Code - Part 1 5min Resources
- 133. Drop-Down Lists - Write Some Code - Part 2 5min Resources
- 134. FAQ: Use properties file to load country options 1min
- 135. Radio Buttons - Overview 2min
- 136. Radio Buttons - Write Some Code 5min Resources
- 137. FAQ: How to populate radiobuttons with items from Java class? 1min
- 138. Checkboxes - Overview 1min

Overview Q&A Notes Announcements Reviews

Spring 5: Learn Spring 5 Core, AOP, Spring MVC, Spring Security, Spring REST, Spring Boot 2, Thymeleaf, JPA & Hibernate

4.6 ★ 230,054 Students 42.5 hours

[Home](#) Spring & Hibernate for Beginners (includes Spring Boot)

## Code Snippet

Property for data binding

```
<form:select path="country">
<form:option value="Brazil" label="Brazil" />
<form:option value="France" label="France" />
<form:option value="Germany" label="Germany" />
<form:option value="India" label="India" />
</form:select>
```

First name:   
Last name:   
Country:  Submit

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Course content

- 131. Drop-Down Lists - Overview 2min
- 132. Drop-Down Lists - Write Some Code - Part 1 5min Resources
- 133. Drop-Down Lists - Write Some Code - Part 2 5min Resources
- 134. FAQ: Use properties file to load country options 1min
- 135. Radio Buttons - Overview 2min
- 136. Radio Buttons - Write Some Code 5min Resources
- 137. FAQ: How to populate radiobuttons with items from Java class? 1min
- 138. Checkboxes - Overview 1min

Overview Q&A Notes Announcements Reviews

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[← Home](#) Spring & Hibernate for Beginners (includes Spring Boot)

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## Code Snippet

**We could use 3-letter country codes**

Course content

- 131. Drop-Down Lists - Overview
- 132. Drop-Down Lists - Write Some Code - Part 1
- 133. Drop-Down Lists - Write Some Code - Part 2
- 134. FAQ: Use properties file to load country options
- 135. Radio Buttons - Overview
- 136. Radio Buttons - Write Some Code
- 137. FAQ: How to populate radiobuttons with items from Java class?
- 138. Checkboxes - Overview

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## Country:

On submit, Spring will call studentSetCountry(...)

Course content

- 132. Drop-Down Lists - Write Some Code - Part 1
- 133. Drop-Down Lists - Write Some Code - Part 2
- 134. FAQ: Use properties file to load country options
- 135. Radio Buttons - Overview
- 136. Radio Buttons - Write Some Code
- 137. FAQ: How to populate radiobuttons with items from Java class?
- 138. Checkboxes - Overview
- 139. Checkboxes - Write Some Code - Part 1

Spring 5: Learn Spring 5 Core, AOP, Spring MVC, Spring Security, Spring REST, Spring Boot 2, Thymeleaf, JPA & Hibernate

4.6 ★ 230,054 Students Total

The screenshot shows a Java Spring Boot application running in Eclipse. The code in the editor is:

```
1 <form><br>
2 <br>
3 Country:<br>
4 <form><select path="country">
5 <option value="Brazil">Brazil</option>
6 <option value="France">France</option>
7 <option value="Germany">Germany</option>
8 <option value="India">India</option>
9 </select><br>
10 <br>
11 <input type="submit" value="Submit" />
12 </form></form>
```

A red callout box highlights the line `<option value="India">India</option>` with the text "Step 2: Add property to Student class".

Spring 5: Learn Spring 5 Core, AOP, Spring MVC, Spring Security, Spring REST, Spring Boot 2, Thymeleaf, JPA & Hibernate

4.6 ★ 230,054 Students 42.5 hours Total

#### Course content

- 132. Drop-Down Lists - Write Some Code - Part 1  
5min Resources
- 133. Drop-Down Lists - Write Some Code - Part 2  
5min Resources
- 134. FAQ: Use properties file to load country options  
1min
- 135. Radio Buttons - Overview  
2min
- 136. Radio Buttons - Write Some Code  
5min Resources
- 137. FAQ: How to populate radiobuttons with items from Java class?  
1min
- 138. Checkboxes - Overview  
1min
- 139. Checkboxes - Write Some Code - Part 1  
5min Resources

The screenshot shows a Java Spring Boot application running in Eclipse. The code in the editor is:

```
1 package com.luv2code.springdemo.mvc;
2
3 public class Student {
4     private String firstName;
5     private String lastName;
6     private String country;
7
8     public Student() {
9     }
10
11     public String getFirstName() {
12         return firstName;
13     }
14
15     public void setFirstName(String FirstName) {
16         this.firstName = FirstName;
17     }
18 }
```

A play button icon is overlaid on the code editor.

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#### Course content

- 132. Drop-Down Lists - Write Some Code - Part 1  
5min Resources
- 133. Drop-Down Lists - Write Some Code - Part 2  
5min Resources
- 134. FAQ: Use properties file to load country options  
1min
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2min
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- 137. FAQ: How to populate radiobuttons with items from Java class?  
1min
- 138. Checkboxes - Overview  
1min
- 139. Checkboxes - Write Some Code - Part 1  
5min Resources

[← Home](#) Spring & Hibernate for Beginners (includes Spring Boot)

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**Course content**

- 132. Drop-Down Lists - Write Some Code - Part 1
- 133. Drop-Down Lists - Write Some Code - Part 2
- 134. FAQ: Use properties file to load country options
- 135. Radio Buttons - Overview
- 136. Radio Buttons - Write Some Code
- 137. FAQ: How to populate radiobuttons with items from Java class?
- 138. Checkboxes - Overview
- 139. Checkboxes - Write Some Code - Part 1

Resources

On submit, Spring will call student.setCountry(...)

```
21     public String getLastName() {  
22         return lastName;  
23     }  
24  
25     public void setLastName(String lastName) {  
26         this.lastName = lastName;  
27     }  
28  
29     public String getCountry() {  
30         return country;  
31     }  
32  
33     public void setCountry(String country) {  
34         this.country = country;  
35     }  
36  
37 }  
38
```

Overview Q&A Notes Announcements Reviews

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**Course content**

- 132. Drop-Down Lists - Write Some Code - Part 1
- 133. Drop-Down Lists - Write Some Code - Part 2
- 134. FAQ: Use properties file to load country options
- 135. Radio Buttons - Overview
- 136. Radio Buttons - Write Some Code
- 137. FAQ: How to populate radiobuttons with items from Java class?
- 138. Checkboxes - Overview
- 139. Checkboxes - Write Some Code - Part 1

Resources

Spring will call student.getCountry()

```
7 </head>  
8  
9 <body>  
10  
11 The student is confirmed: ${student.firstName} ${student.lastName}  
12  
13 <br><br>  
14  
15 Country: ${student.country} |  
16  
17 </body>  
18  
19 </html>  
20  
21  
22  
23  
24  
25  
26
```

Overview Q&A Notes Announcements Reviews

Spring 5: Learn Spring 5 Core, AOP, Spring MVC, Spring Security, Spring REST, Spring Boot 2, Thymeleaf, JPA & Hibernate

4.6 ★ 230,054 Students 42.5 hours Total

Spring & Hibernate for Beginners (includes Spring Boot)

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Course content

- 132. Drop-Down Lists - Write Some Code - Part 1
- 133. Drop-Down Lists - Write Some Code - Part 2
- 134. FAQ: Use properties file to load country options
- 135. Radio Buttons - Overview
- 136. Radio Buttons - Write Some Code
- 137. FAQ: How to populate radiobuttons with items from Java class?
- 138. Checkboxes - Overview
- 139. Checkboxes - Write Some Code - Part 1

Spring MVC Demo - Home Page

Hello World form  
Student.form

Spring 5: Learn Spring 5 Core, AOP, Spring MVC, Spring Security, Spring REST, Spring Boot 2, Thymeleaf, JPA & Hibernate

4.6 ★ 230,054 Students 42.5 hours Total

Overview Q&A Notes Announcements Reviews

This screenshot shows a course page for 'Spring & Hibernate for Beginners (includes Spring Boot)'. The main content area displays a video player with the title 'Spring MVC Demo - Home Page' and a play button. Below the video, there's a link to 'Hello World form' and another to 'Student.form'. To the right, a sidebar titled 'Course content' lists nine video lessons with titles like 'Drop-Down Lists - Write Some Code - Part 1' through 'Checkboxes - Write Some Code - Part 1'. At the bottom of the page, there's a summary section with a 4.6 rating, 230,054 students, and a total duration of 42.5 hours.

Spring & Hibernate for Beginners (includes Spring Boot)

Leave a rating Your progress Recommend

Course content

- 132. Drop-Down Lists - Write Some Code - Part 1
- 133. Drop-Down Lists - Write Some Code - Part 2
- 134. FAQ: Use properties file to load country options
- 135. Radio Buttons - Overview
- 136. Radio Buttons - Write Some Code
- 137. FAQ: How to populate radiobuttons with items from Java class?
- 138. Checkboxes - Overview
- 139. Checkboxes - Write Some Code - Part 1

Student Registration Form

First name: John

Last name: Doe

Country:  Brazil  France  Germany  India

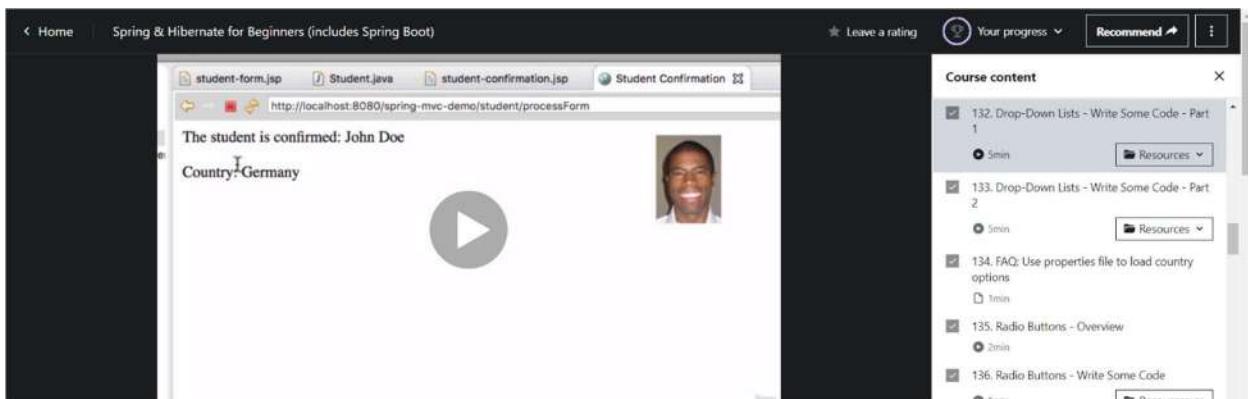
Submit

Spring 5: Learn Spring 5 Core, AOP, Spring MVC, Spring Security, Spring REST, Spring Boot 2, Thymeleaf, JPA & Hibernate

4.6 ★ 230,054 Students 42.5 hours Total

Overview Q&A Notes Announcements Reviews

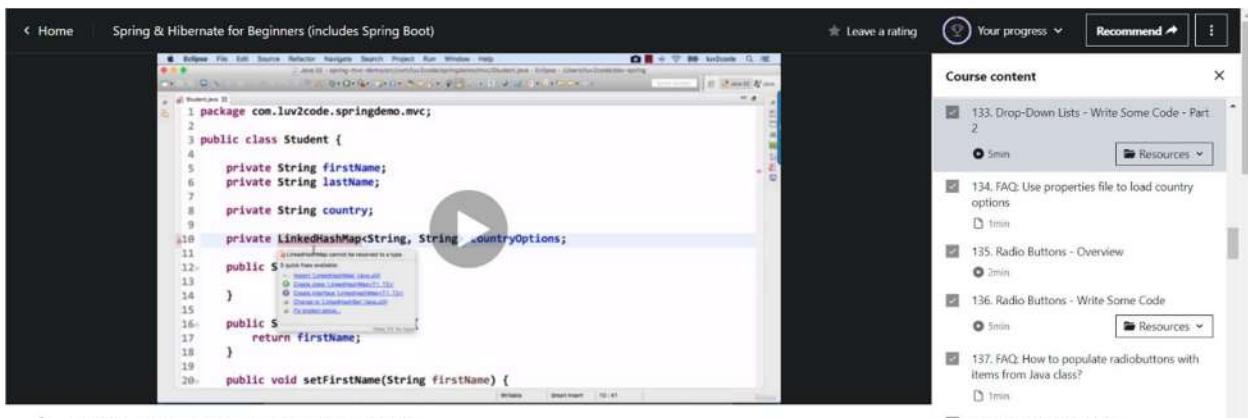
This screenshot shows the same course page as the first one, but the video player is now displaying a dropdown menu for selecting a country. The dropdown list includes 'Brazil', 'France', 'Germany', and 'India', with 'Brazil' currently selected. The rest of the page content, including the course summary and sidebar, remains identical to the first screenshot.



Overview Q&A Notes Announcements Reviews

Spring 5: Learn Spring 5 Core, AOP, Spring MVC, Spring Security, Spring REST, Spring Boot 2, Thymeleaf, JPA & Hibernate

4.6 ★ 230,054 Students 42.5 hours Total



Overview Q&A Notes Announcements Reviews

Spring 5: Learn Spring 5 Core, AOP, Spring MVC, Spring Security, Spring REST, Spring Boot 2, Thymeleaf, JPA & Hibernate

4.6 ★ 230,054 Students 42.5 hours Total

```
11 private LinkedHashMap<String, String> countryOptions;
12
13 public Student() {
14
15     // populate country options: used ISO country code
16     countryOptions = new LinkedHashMap<>();
17
18     countryOptions.put("BR", "Brazil");
19     countryOptions.put("FR", "France");
20     countryOptions.put("DE", "Germany");
21     countryOptions.put("IN", "India");
22 }
23
24 public String getKey() {
25     return key;
26 }
27
28 public void setFirstName(String FirstName) {
29 }
```

Overview Q&A Notes Announcements Reviews

## Spring 5: Learn Spring 5 Core, AOP, Spring MVC, Spring Security, Spring REST, Spring Boot 2, Thymeleaf, JPA & Hibernate

4.6 ★ 230,054 Students 42.5 hours Total

- Course content
- 133. Drop-Down Lists - Write Some Code - Part 2  
5min Resources
  - 134. FAQ: Use properties file to load country options  
1min
  - 135. Radio Buttons - Overview  
2min
  - 136. Radio Buttons - Write Some Code  
5min Resources
  - 137. FAQ: How to populate radiobuttons with items from Java class?  
1min
  - 138. Checkboxes - Overview  
1min
  - 139. Checkboxes - Write Some Code - Part 1  
5min Resources
  - 140. Checkboxes - Write Some Code - Part 2  
3min Resources

```
37
38 public void setLastName(String lastName) {
39     this.lastName = lastName;
40 }
41
42 public String getCountry() {
43     return country;
44 }
45
46 public void setCountry(String country) {
47     this.country = country;
48 }
49
50 public LinkedHashMap<String, String> getCountryOptions() {
51     return countryOptions;
52 }
53
54
```

Overview Q&A Notes Announcements Reviews

## Spring 5: Learn Spring 5 Core, AOP, Spring MVC, Spring Security, Spring REST, Spring Boot 2, Thymeleaf, JPA & Hibernate

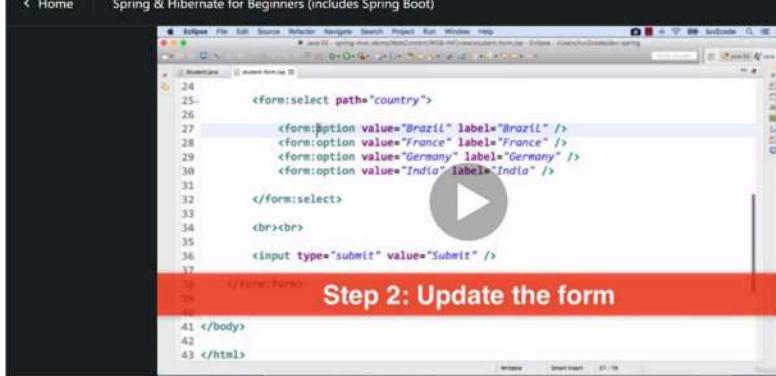
4.6 ★ 230,054 Students 42.5 hours Total

- Course content
- 133. Drop-Down Lists - Write Some Code - Part 2  
5min Resources
  - 134. FAQ: Use properties file to load country options  
1min
  - 135. Radio Buttons - Overview  
2min
  - 136. Radio Buttons - Write Some Code  
5min Resources
  - 137. FAQ: How to populate radiobuttons with items from Java class?  
1min
  - 138. Checkboxes - Overview  
1min
  - 139. Checkboxes - Write Some Code - Part 1  
5min Resources
  - 140. Checkboxes - Write Some Code - Part 2  
3min Resources

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**Course content**

- 133. Drop-Down Lists - Write Some Code - Part 2 5min [Resources](#)
- 134. FAQ: Use properties file to load country options 1min
- 135. Radio Buttons - Overview 2min
- 136. Radio Buttons - Write Some Code 5min [Resources](#)
- 137. FAQ: How to populate radiobuttons with items from Java class? 1min
- 138. Checkboxes - Overview 1min
- 139. Checkboxes - Write Some Code - Part 1 5min [Resources](#)
- 140. Checkboxes - Write Some Code - Part 2 3min [Resources](#)



Spring 5: Learn Spring 5 Core, AOP, Spring MVC, Spring Security, Spring REST, Spring Boot 2, Thymeleaf, JPA & Hibernate

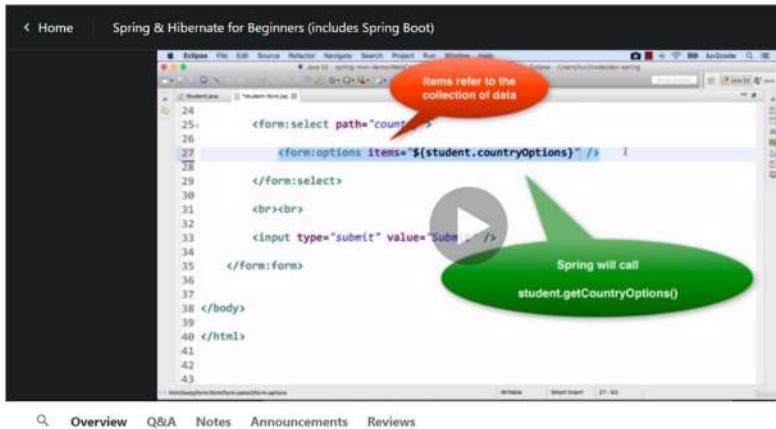
4.6 ★ 230,054 Students 42.5 hours Total

Update above as below

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**Course content**

- 133. Drop-Down Lists - Write Some Code - Part 2 5min [Resources](#)
- 134. FAQ: Use properties file to load country options 1min
- 135. Radio Buttons - Overview 2min
- 136. Radio Buttons - Write Some Code 5min [Resources](#)
- 137. FAQ: How to populate radiobuttons with items from Java class? 1min
- 138. Checkboxes - Overview 1min
- 139. Checkboxes - Write Some Code - Part 1 5min [Resources](#)
- 140. Checkboxes - Write Some Code - Part 2 3min [Resources](#)



Spring 5: Learn Spring 5 Core, AOP, Spring MVC, Spring Security, Spring REST, Spring Boot 2, Thymeleaf, JPA & Hibernate

4.6 ★ 230,054 Students 42.5 hours Total

```
private String country;
private LinkedHashMap<String, String> countryOptions;
public Student() {
    // populate country options: used ISO country code
    countryOptions = new LinkedHashMap<>();
    countryOptions.put("BR", "Brazil");
    countryOptions.put("FR", "France");
    countryOptions.put("DE", "Germany");
    countryOptions.put("IN", "India");
    countryOptions.put("US", "United States of America");
}
public String getFirstName() {
```

Overview Q&A Notes Announcements Reviews

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- Course content
- 133. Drop-Down Lists - Write Some Code - Part 2  
5min Resources
  - 134. FAQ: Use properties file to load country options  
1min
  - 135. Radio Buttons - Overview  
2min
  - 136. Radio Buttons - Write Some Code  
5min Resources
  - 137. FAQ: How to populate radiobuttons with items from Java class?  
1min
  - 138. Checkboxes - Overview  
1min
  - 139. Checkboxes - Write Some Code - Part 1  
5min Resources
  - 140. Checkboxes - Write Some Code - Part 2  
3min Resources

## Spring MVC Demo - Home Page

Hello World form

Student form

Overview Q&A Notes Announcements Reviews

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- Course content
- 133. Drop-Down Lists - Write Some Code - Part 2  
5min Resources
  - 134. FAQ: Use properties file to load country options  
1min
  - 135. Radio Buttons - Overview  
2min
  - 136. Radio Buttons - Write Some Code  
5min Resources
  - 137. FAQ: How to populate radiobuttons with items from Java class?  
1min
  - 138. Checkboxes - Overview  
1min
  - 139. Checkboxes - Write Some Code - Part 1  
5min Resources
  - 140. Checkboxes - Write Some Code - Part 2  
3min Resources

A screenshot of a video player interface. The video frame shows a web browser with a form titled "Student Registration Form". The form has fields for "First name" (John), "Last name" (Doe), and "Country" (India). A "Submit" button is visible. To the right of the video frame is a "Course content" sidebar listing 14 video lessons related to Spring and Hibernate, such as "133. Drop-Down Lists - Write Some Code - Part 2" and "134. FAQ: Use properties file to load country options".

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A screenshot of a video player interface. The video frame shows a web browser with a page titled "Student Confirmation". The content of the page is "The student is confirmed: John Doe" and "Country: IN". To the right of the video frame is a "Course content" sidebar listing 14 video lessons related to Spring and Hibernate.

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## How to use properties file to load country options



133-faq-use-properties-file-to-load-country-options.pdf

## Spring MVC Form tags – Radio Buttons



13-form-tags-radio-overview.pdf

The screenshot shows a course page for "Spring & Hibernate for Beginners (includes Spring Boot)". The main content area displays a "Code Example" with the following Java code:

```
Java <form:radioButton path="favoriteLanguage" value="Java" />
C# <form:radioButton path="favoriteLanguage" value="C#" />
PHP <form:radioButton path="favoriteLanguage" value="PHP" />
Ruby <form:radioButton path="favoriteLanguage" value="Ruby" />
```

A blue speech bubble labeled "Data binding" points to the "value" attribute of the radio buttons. Below the code, there is a logo for "luv2code" and the URL "www.luv2code.com".

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Spring 5: Learn Spring 5 Core, AOP, Spring MVC, Spring Security, Spring REST, Spring Boot 2, Thymeleaf, JPA & Hibernate

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Course content

- 135. Radio Buttons - Overview 2min
- 136. Radio Buttons - Write Some Code 5min Resources
- 137. FAQ: How to populate radiobuttons with items from Java class? 1min
- 138. Checkboxes - Overview 1min
- 139. Checkboxes - Write Some Code - Part 1 5min Resources
- 140. Checkboxes - Write Some Code - Part 2 3min Resources

Section 15: Spring MVC Form Validation - Applying Built-In Validation Rules 13 / 13 | 51min

Section 16: Spring MVC Form Validation - Validating Number Ranges and... 9 / 9 | 37min

The screenshot shows the same course page for "Spring & Hibernate for Beginners (includes Spring Boot)". The main content area displays a "Code Example" with the following Java code:

```
Java <form:radioButton path="favoriteLanguage" value="Java" />
C# <form:radioButton path="favoriteLanguage" value="C#" />
PHP <form:radioButton path="favoriteLanguage" value="PHP" />
Ruby <form:radioButton path="favoriteLanguage" value="Ruby" />
```

A green speech bubble labeled "On submit, Spring will call student.setFavoriteLanguage(..)" points to the "path" attribute of the radio buttons. Below the code, there is a logo for "luv2code" and the URL "www.luv2code.com".

Overview Q&A Notes Announcements Reviews

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Course content

- 135. Radio Buttons - Overview 2min
- 136. Radio Buttons - Write Some Code 5min Resources
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Section 15: Spring MVC Form Validation - Applying Built-In Validation Rules 13 / 13 | 51min

Section 16: Spring MVC Form Validation - Validating Number Ranges and... 9 / 9 | 37min

< Home Spring & Hibernate for Beginners (includes Spring Boot)

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```
29 </form><br>
30 <br><br>
31 Favorite Language:<br>
32 Java <form:radioButton path="favoriteLanguage" value="Java" />
33 C# <form:radioButton path="favoriteLanguage" value="C#" />
34 PHP <form:radioButton path="favoriteLanguage" value="PHP" />
35 Ruby <form:radioButton path="favoriteLanguage" value="Ruby" />
36 <br><br>
37 <input type="submit" value="Submit" />
38 </form></form>
39 </body>
40 </html>
```

Favorite Programming Languages:  
Java C# PHP Ruby

Submit

Leave a rating Your progress Recommend

Course content

- 136. Radio Buttons - Write Some Code 5min Resources
- 137. FAQ: How to populate radiobuttons with items from Java class? 1min
- 138. Checkboxes - Overview 1min
- 139. Checkboxes - Write Some Code - Part 1 5min Resources
- 140. Checkboxes - Write Some Code - Part 2 2min Resources

Section 15: Spring MVC Form Validation - Applying Built-In Validation Rules 13 / 13 15min

Section 16: Spring MVC Form Validation - Validating Number Ranges and... 9 / 9 137min

Section 17: Spring MVC Form Validation - Creating Custom Validation Rules 8 / 8 137min

Overview Q&A Notes Announcements Reviews

Spring 5: Learn Spring 5 Core, AOP, Spring MVC, Spring Security, Spring REST, Spring Boot 2, Thymeleaf, JPA & Hibernate

4.6 ★ 230,054 Students Total

< Home Spring & Hibernate for Beginners (includes Spring Boot)

Eclipse IDE - Java EE IDE with support for Java, JavaScript, PHP and more

```
29 </form><br>
30 <br><br>
31 Favorite Language:<br>
32 Java <form:radioButton path="favoriteLanguage" value="Java" />
33 C# <form:radioButton path="favoriteLanguage" value="C#" />
34 PHP <form:radioButton path="favoriteLanguage" value="PHP" />
35 Ruby <form:radioButton path="favoriteLanguage" value="Ruby" />
36 <br><br>
37 <input type="submit" value="Submit" />
38 </form></form>
39 </body>
40 </html>
```

On submit, Spring will call  
student.setFavoriteLanguage(...)

Favorite Programming Languages:  
Java C# PHP Ruby

Submit

Leave a rating Your progress Recommend

Course content

- 136. Radio Buttons - Write Some Code 5min Resources
- 137. FAQ: How to populate radiobuttons with items from Java class? 1min
- 138. Checkboxes - Overview 1min
- 139. Checkboxes - Write Some Code - Part 1 5min Resources
- 140. Checkboxes - Write Some Code - Part 2 2min Resources

Section 15: Spring MVC Form Validation - Applying Built-In Validation Rules 13 / 13 15min

Section 16: Spring MVC Form Validation - Validating Number Ranges and... 9 / 9 137min

Section 17: Spring MVC Form Validation - Creating Custom Validation Rules 8 / 8 137min

Overview Q&A Notes Announcements Reviews

Spring 5: Learn Spring 5 Core, AOP, Spring MVC, Spring Security, Spring REST, Spring Boot 2, Thymeleaf, JPA & Hibernate

4.6 ★ 230,054 Students Total

Spring & Hibernate for Beginners (includes Spring Boot)

Step 2: Add property to Student class

```
</form:select>
<br><br>
Favorite Language:
Java <form:radiobutton path="favoriteLanguage" value="Java" />
C# <form:radiobutton path="favoriteLanguage" value="C#" />
PHP <form:radiobutton path="favoriteLanguage" value="PHP" />
Ruby <form:radiobutton path="favoriteLanguage" value="Ruby" />
```

Overview Q&A Notes Announcements Reviews

Spring 5: Learn Spring 5 Core, AOP, Spring MVC, Spring Security, Spring REST, Spring Boot 2, Thymeleaf, JPA & Hibernate

4.6 ★ 230,054 Students 42.5 hours

- 136. Radio Buttons - Write Some Code
- 137. FAQ: How to populate radiobuttons with items from Java class?
- 138. Checkboxes - Overview
- 139. Checkboxes - Write Some Code - Part 1
- 140. Checkboxes - Write Some Code - Part 2

Section 15: Spring MVC Form Validation - Applying Built-In Validation Rules

13 / 13 | 51min

Section 16: Spring MVC Form Validation - Validating Number Ranges and...

9 / 9 | 37min

Section 17: Spring MVC Form Validation - Creating Custom Validation Rules

8 / 8 | 37min

Spring & Hibernate for Beginners (includes Spring Boot)

Step 2: Add property to Student class

```
private String firstName;
private String lastName;
private String country;
private LinkedHashMap<String, String> countryOptions;
private String favoriteLanguage;
```

Overview Q&A Notes Announcements Reviews

Spring 5: Learn Spring 5 Core, AOP, Spring MVC, Spring Security, Spring REST, Spring Boot 2, Thymeleaf, JPA & Hibernate

4.6 ★ 230,054 Students 42.5 hours

- 136. Radio Buttons - Write Some Code
- 137. FAQ: How to populate radiobuttons with items from Java class?
- 138. Checkboxes - Overview
- 139. Checkboxes - Write Some Code - Part 1
- 140. Checkboxes - Write Some Code - Part 2

Section 15: Spring MVC Form Validation - Applying Built-In Validation Rules

13 / 13 | 51min

Section 16: Spring MVC Form Validation - Validating Number Ranges and...

9 / 9 | 37min

Section 17: Spring MVC Form Validation - Creating Custom Validation Rules

8 / 8 | 37min

[← Home](#) Spring & Hibernate for Beginners (includes Spring Boot)

Leave a rating Your progress Recommend

**Course content**

- 136. Radio Buttons - Write Some Code
- 137. FAQ: How to populate radiobuttons with items from Java class?
- 138. Checkboxes - Overview
- 139. Checkboxes - Write Some Code - Part 1
- 140. Checkboxes - Write Some Code - Part 2

Section 15: Spring MVC Form Validation - Applying Built-In Validation Rules  
13 / 13 | 51min

Section 16: Spring MVC Form Validation - Validating Number Ranges and...  
9 / 9 | 37min

Section 17: Spring MVC Form Validation - Creating Custom Validation Rules  
8 / 8 | 37min

```
48 public void setCountry(String country) {  
49     this.country = country;  
50 }  
51  
52 public LinkedHashMap<String, String> getCountryOptions() {  
53     return countryOptions;  
54 }  
55  
56 public String getFavoriteLanguage()  
57     return favoriteLanguage;  
58 }  
59  
60 public void setFavoriteLanguage(String favoritelanguage) {  
61     this.favoritelanguage = favoritelanguage;  
62 }  
63  
64  
65 }  
66  
67 }
```

Overview Q&A Notes Announcements Reviews

Spring 5: Learn Spring 5 Core, AOP, Spring MVC, Spring Security, Spring REST, Spring Boot 2, Thymeleaf, JPA & Hibernate

4.6 ★ 230,054 Students Total

[← Home](#) Spring & Hibernate for Beginners (includes Spring Boot)

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**Course content**

- 136. Radio Buttons - Write Some Code
- 137. FAQ: How to populate radiobuttons with items from Java class?
- 138. Checkboxes - Overview
- 139. Checkboxes - Write Some Code - Part 1
- 140. Checkboxes - Write Some Code - Part 2

Section 15: Spring MVC Form Validation - Applying Built-In Validation Rules  
13 / 13 | 51min

Section 16: Spring MVC Form Validation - Validating Number Ranges and...  
9 / 9 | 37min

Section 17: Spring MVC Form Validation - Creating Custom Validation Rules  
8 / 8 | 37min

```
8  
9 <body>  
10  
11 The student is confirmed: ${student.firstName} ${student.lastName}  
12  
13 <br><br>  
14  
15 Country: ${student.country}  
16  
17 <br><br>  
18  
19 Favorite Language: ${student.favoriteLanguage}  
20  
21 </body>  
22  
23 </html>  
24  
25
```

Overview Q&A Notes Announcements Reviews

Spring 5: Learn Spring 5 Core, AOP, Spring MVC, Spring Security, Spring REST, Spring Boot 2, Thymeleaf, JPA & Hibernate

4.6 ★ 230,054 Students Total

Spring & Hibernate for Beginners (includes Spring Boot)

Leave a rating Your progress Recommend

Course content

- 136. Radio Buttons - Write Some Code
- 137. FAQ: How to populate radiobuttons with items from Java class?
- 138. Checkboxes - Overview
- 139. Checkboxes - Write Some Code - Part 1
- 140. Checkboxes - Write Some Code - Part 2

Section 15: Spring MVC Form Validation - Applying Built-In Validation Rules  
13 / 13 | 51min

Section 16: Spring MVC Form Validation - Validating Number Ranges and...  
9 / 9 | 37min

Section 17: Spring MVC Form Validation - Creating Custom Validation Rules  
8 / 8 | 37min

Spring MVC Demo - Home Page

Hello World form

Student form

358 / 4:43

Overview Q&A Notes Announcements Reviews

Spring 5: Learn Spring 5 Core, AOP, Spring MVC, Spring Security, Spring REST, Spring Boot 2, Thymeleaf, JPA & Hibernate

4.6 ★ 230,054 Students 42.5 hours

Spring & Hibernate for Beginners (includes Spring Boot)

Leave a rating Your progress Recommend

Course content

- 136. Radio Buttons - Write Some Code
- 137. FAQ: How to populate radiobuttons with items from Java class?
- 138. Checkboxes - Overview
- 139. Checkboxes - Write Some Code - Part 1
- 140. Checkboxes - Write Some Code - Part 2

Section 15: Spring MVC Form Validation - Applying Built-In Validation Rules  
13 / 13 | 51min

Section 16: Spring MVC Form Validation - Validating Number Ranges and...  
9 / 9 | 37min

Section 17: Spring MVC Form Validation - Creating Custom Validation Rules  
8 / 8 | 37min

Student Registration Form

First name: John

Last name: Doe

Country: Brazil

Favorite Language: Java  C#  PHP  Ruby

Submit

Overview Q&A Notes Announcements Reviews

Spring 5: Learn Spring 5 Core, AOP, Spring MVC, Spring Security, Spring REST, Spring Boot 2, Thymeleaf, JPA & Hibernate

4.6 ★ 230,054 Students 42.5 hours

The student is confirmed: John Doe  
Country: BR  
Favorite Language: C#

Spring 5: Learn Spring 5 Core, AOP, Spring MVC, Spring Security, Spring REST, Spring Boot 2, Thymeleaf, JPA & Hibernate

4.6 ★ 230,054 Students 42.5 hours

Course content:

- 136. Radio Buttons - Write Some Code (5min) [Resources]
- 137. FAQ: How to populate radiobuttons with items from Java class? (1min)
- 138. Checkboxes - Overview (1min)
- 139. Checkboxes - Write Some Code - Part 1 (5min) [Resources]
- 140. Checkboxes - Write Some Code - Part 2 (2min) [Resources]

Section 15: Spring MVC Form Validation - Applying Built-In Validation Rules 13 / 13 | 51min

Section 16: Spring MVC Form Validation - Validating Number Ranges and... 9 / 9 | 37min

Section 17: Spring MVC Form Validation - Creating Custom Validation Rules 8 / 8 | 32min

## How to populate radiobuttons with items from Java class like we did with selectlist?



136-faq-how-to-populate-radiobuttons-with-items-from-java-class-like-we-did-with-selectlist.pdf

## Spring MVC Form tag – Checkboxes



14-form-tags-checkboxes-overview.pdf

Code Example

Linux <form:checkbox path="operatingSystems" value="Linux" />  
Mac OS <form:checkbox path="operatingSystems" value="Mac OS" />  
MS Windows <form:checkbox path="operatingSystems" value="MS Windows" />

Spring 5: Learn Spring 5 Core, AOP, Spring MVC, Spring Security, Spring REST, Spring Boot 2, Thymeleaf, JPA & Hibernate

4.6 ★ 230,054 Students 42.5 hours

Course content:

- 138. Checkboxes - Overview (1min)
- 139. Checkboxes - Write Some Code - Part 1 (5min) [Resources]
- 140. Checkboxes - Write Some Code - Part 2 (3min) [Resources]

Section 15: Spring MVC Form Validation - Applying Built-In Validation Rules 13 / 13 | 51min

Section 16: Spring MVC Form Validation - Validating Number Ranges and... 9 / 9 | 37min

Section 17: Spring MVC Form Validation - Creating Custom Validation Rules 8 / 8 | 32min

Section 18: Introduction to Hibernate 2 / 2 | 10min

Section 19: Setting Up Hibernate Development Environment

Code Example

```
Linux <form:checkbox path="operatingSystems" value="Linux" />
Mac OS <form:checkbox path="operatingSystems" value="Mac OS" />
MS Windows <form:checkbox path="operatingSystems"
value="MS Windows" />
```

In Java code  
Need to add support when user selects multiple options  
Array of Strings  
Add appropriate get/set methods

Spring 5: Learn Spring 5 Core, AOP, Spring MVC, Spring Security, Spring REST, Spring Boot 2, Thymeleaf, JPA & Hibernate

4.6 ★ 230,054 Students 42.5 hours Total

Course content

- 138. Checkboxes - Overview 1min
- 139. Checkboxes - Write Some Code - Part 1 5min Resources
- 140. Checkboxes - Write Some Code - Part 2 3min Resources

Section 15: Spring MVC Form Validation - Applying Built-In Validation Rules 13 / 13 | 51min

Section 16: Spring MVC Form Validation - Validating Number Ranges and... 9 / 9 | 37min

Section 17: Spring MVC Form Validation - Creating Custom Validation Rules 8 / 8 | 32min

Section 18: Introduction to Hibernate 2 / 2 | 10min

Section 19: Setting Up Hibernate Development Environment 7 / 7 | 29min

Spring 5: Learn Spring 5 Core, AOP, Spring MVC, Spring Security, Spring REST, Spring Boot 2, Thymeleaf, JPA & Hibernate

4.6 ★ 230,054 Students 42.5 hours Total

Course content

- 139. Checkboxes - Write Some Code - Part 1 5min Resources
- 140. Checkboxes - Write Some Code - Part 2 3min Resources

Section 15: Spring MVC Form Validation - Applying Built-In Validation Rules 13 / 13 | 51min

Section 16: Spring MVC Form Validation - Validating Number Ranges and... 9 / 9 | 37min

Section 17: Spring MVC Form Validation - Creating Custom Validation Rules 8 / 8 | 32min

Section 18: Introduction to Hibernate 2 / 2 | 10min

Section 19: Setting Up Hibernate Development Environment 7 / 7 | 29min

```
10 private String country;
11
12 private LinkedHashMap<String, String> countryOptions;
13
14 private String favoriteLanguage;
15
16 private String[] operatingSystems;
17
18 public Student() {
19
20     // populate country options: need ISO country code
21     countryOptions = new LinkedHashMap<>();
22
23     countryOptions.put("BR", "Brazil");
24     countryOptions.put("FR", "France");
25     countryOptions.put("DE", "Germany");
26     countryOptions.put("IN", "India");
27     countryOptions.put("US", "United States of America");
28 }
```

Overview Q&A Notes Announcements Reviews

Spring 5: Learn Spring 5 Core, AOP, Spring MVC, Spring Security, Spring REST, Spring Boot 2, Thymeleaf, JPA & Hibernate

4.6 ★ 230,054 Students 42.5 hours Total

- Course content
  - 139. Checkboxes - Write Some Code - Part 1
    - 5min Resources
  - 140. Checkboxes - Write Some Code - Part 2
    - 3min Resources
- Section 15: Spring MVC Form Validation
  - Applying Built-In Validation Rules
- Section 16: Spring MVC Form Validation
  - Validating Number Ranges and...
- Section 17: Spring MVC Form Validation
  - Creating Custom Validation Rules
- Section 18: Introduction to Hibernate
- Section 19: Setting Up Hibernate Development Environment

```
57 }
58
59     public String getFavoriteLanguage() {
60         return favoriteLanguage;
61     }
62
63     public void setFavoriteLanguage(String favoriteLanguage) {
64         this.favoriteLanguage = favoriteLanguage;
65     }
66
67     public String[] getOperatingSystems() {
68         return operatingSystems;
69     }
70
71     public void setOperatingSystems(String[] operatingSystems) {
72         this.operatingSystems = operatingSystems;
73     }
74
75 }
76
```

Overview Q&A Notes Announcements Reviews

Spring 5: Learn Spring 5 Core, AOP, Spring MVC, Spring Security, Spring REST, Spring Boot 2, Thymeleaf, JPA & Hibernate

4.6 ★ 230,054 Students 42.5 hours Total

- Course content
  - 139. Checkboxes - Write Some Code - Part 1
    - 5min Resources
  - 140. Checkboxes - Write Some Code - Part 2
    - 3min Resources
- Section 15: Spring MVC Form Validation
  - Applying Built-In Validation Rules
- Section 16: Spring MVC Form Validation
  - Validating Number Ranges and...
- Section 17: Spring MVC Form Validation
  - Creating Custom Validation Rules
- Section 18: Introduction to Hibernate
- Section 19: Setting Up Hibernate Development Environment

Spring & Hibernate for Beginners (includes Spring Boot)

Eclipse Java EE IDE for Web Developers - Java EE 6 - Dynamic Web Project - student confirmation.jsp

```
1 <%@ taglib uri="http://java.sun.com/jsp/jstl/core" prefix="c" %>
2 |
3 <!DOCTYPE html>
4 <html>
5   <head>
6     <title>Student Confirmation</title>
7   </head>
8   <body>
9     The student is confirmed: ${student.firstName} ${student.lastName}
10    <br><br>
11    Country: ${student.country}
12    <br><br>
13  </body>
14 </html>
```

Reference JSTL tag library

Leave a rating Your progress Recommend

Course content

- 139. Checkboxes - Write Some Code - Part 1 5min Resources
- 140. Checkboxes - Write Some Code - Part 2 3min Resources

Section 15: Spring MVC Form Validation - Applying Built-In Validation Rules 13 / 13 51min

Section 16: Spring MVC Form Validation - Validating Number Ranges and... 9 / 9 37min

Section 17: Spring MVC Form Validation - Creating Custom Validation Rules 8 / 8 32min

Section 18: Introduction to Hibernate 2 / 2 10min

Section 19: Setting Up Hibernate Development Environment 7 / 7 29min

Spring 5: Learn Spring 5 Core, AOP, Spring MVC, Spring Security, Spring REST, Spring Boot 2, Thymeleaf, JPA & Hibernate

4.6 ★ 230,054 Students Total

Spring & Hibernate for Beginners (includes Spring Boot)

Eclipse Java EE IDE for Web Developers - Java EE 6 - Dynamic Web Project - student confirmation.jsp

```
23 <br><br>
24
25 Operating Systems:
26
27 <ul>
28   <c:forEach var="temp" items="${student.operationSystems}">
29     <li> ... </li>
30   </c:forEach>
31 </ul>
32
33 </body>
34
35 </html>
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
```

student.getOperatingSystems()

Operating Systems:

- Linux
- Mac OS

Leave a rating Your progress Recommend

Course content

- 139. Checkboxes - Write Some Code - Part 1 5min Resources
- 140. Checkboxes - Write Some Code - Part 2 3min Resources

Section 15: Spring MVC Form Validation - Applying Built-In Validation Rules 13 / 13 51min

Section 16: Spring MVC Form Validation - Validating Number Ranges and... 9 / 9 37min

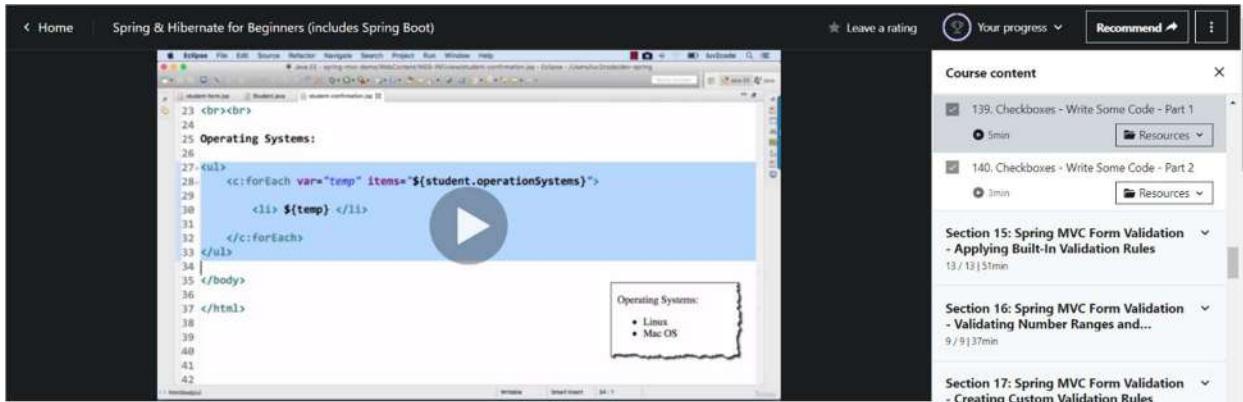
Section 17: Spring MVC Form Validation - Creating Custom Validation Rules 8 / 8 32min

Section 18: Introduction to Hibernate 2 / 2 10min

Section 19: Setting Up Hibernate Development Environment 7 / 7 29min

Spring 5: Learn Spring 5 Core, AOP, Spring MVC, Spring Security, Spring REST, Spring Boot 2, Thymeleaf, JPA & Hibernate

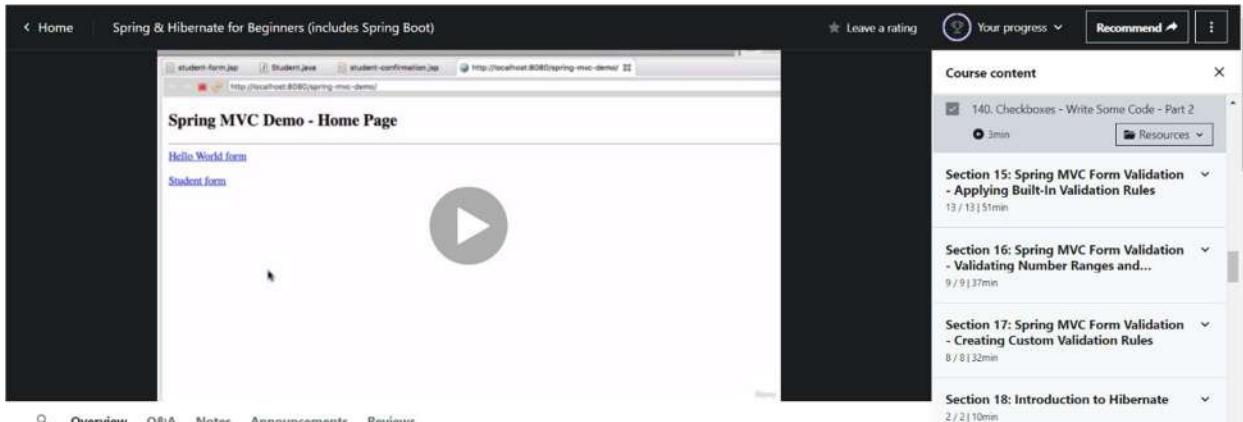
4.6 ★ 230,054 Students Total



Overview Q&A Notes Announcements Reviews

Spring 5: Learn Spring 5 Core, AOP, Spring MVC, Spring Security, Spring REST, Spring Boot 2, Thymeleaf, JPA & Hibernate

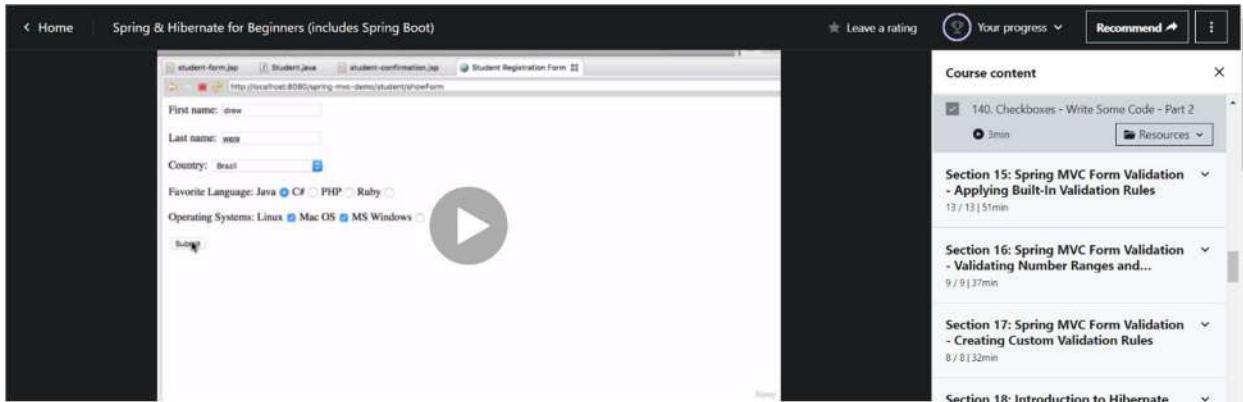
4.6 ★ 230,054 Students 42.5 hours



Overview Q&A Notes Announcements Reviews

Spring 5: Learn Spring 5 Core, AOP, Spring MVC, Spring Security, Spring REST, Spring Boot 2, Thymeleaf, JPA & Hibernate

4.6 ★ 230,054 Students 42.5 hours

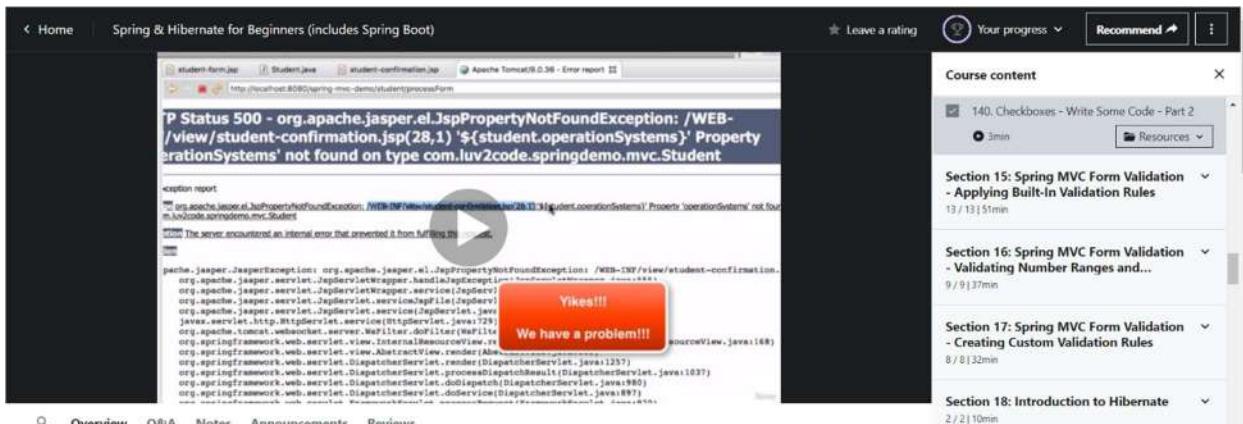


Overview Q&A Notes Announcements Reviews

## Spring 5: Learn Spring 5 Core, AOP, Spring MVC, Spring Security, Spring REST, Spring Boot 2, Thymeleaf, JPA & Hibernate

4.6 ★ 230,054 Students 42.5 hours Total

Course content
140. Checkboxes - Write Some Code - Part 2
Section 15: Spring MVC Form Validation
- Applying Built-In Validation Rules
Section 16: Spring MVC Form Validation
- Validating Number Ranges and...
Section 17: Spring MVC Form Validation
- Creating Custom Validation Rules
Section 18: Introduction to Hibernate
Section 19: Setting Up Hibernate Development Environment
Section 20: Hibernate Configuration with Annotations



Overview Q&A Notes Announcements Reviews

## Spring 5: Learn Spring 5 Core, AOP, Spring MVC, Spring Security, Spring REST, Spring Boot 2, Thymeleaf, JPA & Hibernate

4.6 ★ 230,054 Students 42.5 hours Total

Course content
140. Checkboxes - Write Some Code - Part 2
Section 15: Spring MVC Form Validation
- Applying Built-In Validation Rules
Section 16: Spring MVC Form Validation
- Validating Number Ranges and...
Section 17: Spring MVC Form Validation
- Creating Custom Validation Rules
Section 18: Introduction to Hibernate
Section 19: Setting Up Hibernate Development Environment
Section 20: Hibernate Configuration with Annotations

**P Status 500 - org.apache.jasper.el.JspPropertyNotFoundException: /WEB-INF/view/student-confirmation.jsp(28,1) \${student.operationSystems}' Property 'operationSystems' not found on type com.luv2code.springdemo.mvc.Student**

Caution report:  
org.apache.jasper.el.JspPropertyNotFoundException: /WEB-INF/view/student-confirmation.jsp(28,1) \${student.operationSystems}' Property 'operationSystems' not found on type com.luv2code.springdemo.mvc.Student  
The server encountered an internal error that prevented it from fulfilling this request.

apache.jasper.JasperException: org.apache.jasper.el.JspPropertyNotFoundException: /WEB-INF/view/student-confirmation.jsp(28,1) \${student.operationSystems}' Property 'operationSystems' not found on type com.luv2code.springdemo.mvc.Student  
org.apache.jasper.servlet.JspServletWrapper.service(JspServletWrapper.java:416)  
org.apache.jasper.servlet.JspServlet.service(JspServlet.java:398)  
org.apache.jasper.servlet.JspServlet.service(JspServlet.java:340)  
javax.servlet.http.HttpServlet.service(HttpServlet.java:743)  
org.springframework.web.filter.DelegatingFilterProxy.invokeDelegate(FilterProxy.java:32)  
org.springframework.web.filter.DelegatingFilterProxy.doFilterInternal(FilterProxy.java:52)  
org.springframework.web.filter.DelegatingFilterProxy.invokeDelegate(FilterProxy.java:46)  
org.springframework.web.filter.DelegatingFilterProxy.doFilterInternal(FilterProxy.java:427)  
org.springframework.web.filter.DelegatingFilterProxy.processDispatchResult(DelegatingFilterProxy.java:1037)  
org.springframework.web.filter.DelegatingFilterProxy.doDispatch(DelegatingFilterProxy.java:980)  
org.springframework.web.filter.DelegatingFilterProxy.doService(DelegatingFilterProxy.java:897)

Course content

- 140. Checkboxes - Write Some Code - Part 2 3min Resources
- Section 15: Spring MVC Form Validation - Applying Built-In Validation Rules 13 / 13 | 51min
- Section 16: Spring MVC Form Validation - Validating Number Ranges and... 9 / 9 | 37min
- Section 17: Spring MVC Form Validation - Creating Custom Validation Rules 8 / 8 | 32min
- Section 18: Introduction to Hibernate 2 / 2 | 10min
- Section 19: Setting Up Hibernate Development Environment 7 / 7 | 29min
- Section 20: Hibernate Configuration with Annotations 8 / 8 | 22min

Spring & Hibernate for Beginners (includes Spring Boot)

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Course content

- 140. Checkboxes - Write Some Code - Part 2 3min Resources
- Section 15: Spring MVC Form Validation - Applying Built-In Validation Rules 13 / 13 | 51min
- Section 16: Spring MVC Form Validation - Validating Number Ranges and... 9 / 9 | 37min
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- Section 19: Setting Up Hibernate Development Environment 7 / 7 | 29min
- Section 20: Hibernate Configuration with Annotations 8 / 8 | 22min

Overview Q&A Notes Announcements Reviews

Spring 5: Learn Spring 5 Core, AOP, Spring MVC, Spring Security, Spring REST, Spring Boot 2, Thymeleaf, JPA & Hibernate

4.6 ★ 230,054 Students Total

42.5 hours

Home Spring & Hibernate for Beginners (includes Spring Boot)

Leave a rating Your progress Recommend

Course content

student-form.jsp Student.java student-confirmation.jsp Ajax.js

```
23 <br><br>
24
25 Operating Systems:
26
27<ul>
28  <c:forEach var="temp" items="${student.operatingSystems}">
29    <li> ${temp} </li>
30  </c:forEach>
31</ul>
32</body>
33</html>
```

Will call  
student.getOperatingSystems()

Replace: operationSystems  
With: operatingSystems

Overview Q&A Notes Announcements Reviews

140. Checkboxes - Write Some Code - Part 2 3min Resources

Section 15: Spring MVC Form Validation - Applying Built-In Validation Rules 13 / 13 | 51min

Section 16: Spring MVC Form Validation - Validating Number Ranges and... 9 / 9 | 37min

Section 17: Spring MVC Form Validation - Creating Custom Validation Rules 8 / 8 | 32min

Section 18: Introduction to Hibernate 2 / 2 | 10min

Section 19: Setting Up Hibernate Development Environment 7 / 7 | 29min

Section 20: Hibernate Configuration with Annotations 8 / 8 | 22min

Spring 5: Learn Spring 5 Core, AOP, Spring MVC, Spring Security, Spring REST, Spring Boot 2, Thymeleaf, JPA & Hibernate

4.6 ★ 230,054 Students 42.5 hours

Home Spring & Hibernate for Beginners (includes Spring Boot)

Leave a rating Your progress Recommend

Course content

student-form.jsp Student.java student-confirmation.jsp Student Registration Form

First name: drew  
Last name: west  
Country: Brazil  
Favorite Language: Java  C#  PHP  Ruby  
Operating Systems: Linux  Mac OS  MS Windows

Submit

Overview Q&A Notes Announcements Reviews

140. Checkboxes - Write Some Code - Part 2 3min Resources

Section 15: Spring MVC Form Validation - Applying Built-In Validation Rules 13 / 13 | 51min

Section 16: Spring MVC Form Validation - Validating Number Ranges and... 9 / 9 | 37min

Section 17: Spring MVC Form Validation - Creating Custom Validation Rules 8 / 8 | 32min

Section 18: Introduction to Hibernate 2 / 2 | 10min

Section 19: Setting Up Hibernate Development Environment 7 / 7 | 29min

Section 20: Hibernate Configuration with Annotations 8 / 8 | 22min

Spring 5: Learn Spring 5 Core, AOP, Spring MVC, Spring Security, Spring REST, Spring Boot 2, Thymeleaf, JPA & Hibernate

4.6 ★ 230,054 Students 42.5 hours

The student is confirmed: drew were

Country: BR

Favorite Language: Java

Operating Systems:

- Linux
- Mac OS

Spring 5: Learn Spring 5 Core, AOP, Spring MVC, Spring Security, Spring REST, Spring Boot 2, Thymeleaf, JPA & Hibernate

4.6 ★ 57,057 ratings 230,054 Students 42.5 hours Total

Course content

- 140. Checkboxes - Write Some Code - Part 2
- Section 15: Spring MVC Form Validation
  - Applying Built-In Validation Rules
- Section 16: Spring MVC Form Validation
  - Validating Number Ranges and...
- Section 17: Spring MVC Form Validation
  - Creating Custom Validation Rules
- Section 18: Introduction to Hibernate
- Section 19: Setting Up Hibernate Development Environment
- Section 20: Hibernate Configuration with Annotations

## Spring MVC Form Validation



15-form-validation-overview.pdf



16-form-validation-develop-environment-overview.pdf

Jakarta EE not managed by oracle. It is managed by the community now.

About the Versions ... tricky!

- Hibernate Validator 7 is based on Jakarta EE 9
- Jakarta EE is the community version of Java EE (rebranded, relicensed)
- Allows innovation of Jakarta EE with community-driven approach
- Jakarta EE does not replace Java EE

Spring 5: Learn Spring 5 Core, AOP, Spring MVC, Spring Security, Spring REST, Spring Boot 2, Thymeleaf, JPA & Hibernate

4.6 ★ 57,056 ratings 230,269 Students 42.5 hours Total

Course content

- 142. Setting Up Dev Environment for Form Validation
- 143. Installing Validation Files
- 144. Checking for Required Fields Overview
- 145. Special Note about BindingResult Parameter Order
- 146. Add Validation Rule to Customer Class
- 147. Display Validation Error Messages on HTML Form
- 148. Perform Validation in Controller Class - Part 1
- 149. Perform Validation in Controller Class - Part 2

## Installing Validation File

Spring 5: Learn Spring 5 Core, AOP, Spring MVC, Spring Security, Spring REST, Spring Boot 2, Thymeleaf, JPA & Hibernate

4.6 ★ 230,269 Students 42.5 hours Total

Course content

- 143. Installing Validation Files
- 144. Checking for Required Fields Overview
- 145. Special Note about BindingResult Parameter Order
- 146. Add Validation Rule to Customer Class
- 147. Display Validation Error Messages on HTML Form
- 148. Perform Validation in Controller Class - Part 1
- 149. Perform Validation in Controller Class - Part 2
- 150. Update Confirmation Page

Express validation rules in a standardized way using annotation-based constraints across multiple frameworks.

About

- Releases
- Documentation
- Roadmap
- Contribute
- Tooling

Application layer agnostic validation

Choose 6.2 series

Course content

- 143. Installing Validation Files
- 144. Checking for Required Fields Overview
- 145. Special Note about BindingResult Parameter Order
- 146. Add Validation Rule to Customer Class
- 147. Display Validation Error Messages on HTML Form
- 148. Perform Validation in Controller Class - Part 1
- 149. Perform Validation in Controller Class - Part 2
- 150. Update Confirmation Page

Spring 5: Learn Spring 5 Core, AOP, Spring MVC, Spring Security, Spring REST, Spring Boot 2, Thymeleaf, JPA & Hibernate

4.6 ★ 230,269 Students 42.5 hours Total

The screenshot shows the SourceForge project page for Hibernate Validator. A large blue arrow points from the text "Make sure you are at the 6.2 series" to the "Compatibility" section. This section highlights that the project is "Not compatible with your requirements? Have a look at the other series." Below it, there's a link to "See also the Compatibility policy".

**Course content**

- 143. Installing Validation Files (3min)
- 144. Checking for Required Fields Overview (5min)
- 145. Special Note about BindingResult Parameter Order (1min)
- 146. Add Validation Rule to Customer Class (3min) [Resources]
- 147. Display Validation Error Messages on HTML Form (7min) [Resources]
- 148. Perform Validation in Controller Class - Part 1 (4min) [Resources]
- 149. Perform Validation in Controller Class - Part 2 (4min) [Resources]
- 150. Update Confirmation Page (4min) [Resources]

Spring 5: Learn Spring 5 Core, AOP, Spring MVC, Spring Security, Spring REST, Spring Boot 2, Thymeleaf, JPA & Hibernate

4.6 ★ 230,269 Students 42.5 hours Total

The screenshot shows the SourceForge project page for Hibernate Validator. A large green button labeled "Download" is prominently displayed over the Maven coordinates section. Below the "Download" button, there's a link to "More information about specific releases (announcements, download links) can be found here".

**Course content**

- 143. Installing Validation Files (3min)
- 144. Checking for Required Fields Overview (5min)
- 145. Special Note about BindingResult Parameter Order (1min)
- 146. Add Validation Rule to Customer Class (3min) [Resources]
- 147. Display Validation Error Messages on HTML Form (7min) [Resources]
- 148. Perform Validation in Controller Class - Part 1 (4min) [Resources]
- 149. Perform Validation in Controller Class - Part 2 (4min) [Resources]
- 150. Update Confirmation Page (4min) [Resources]

Spring 5: Learn Spring 5 Core, AOP, Spring MVC, Spring Security, Spring REST, Spring Boot 2, Thymeleaf, JPA & Hibernate

4.6 ★ 230,269 Students 42.5 hours Total

## Checking For Required Fields



17-form-validation-required-overview.pdf

[Home](#) | Spring & Hibernate for Beginners (includes Spring Boot)

Your progress Recommend

Course content

- 144. Checking for Required Fields Overview 5min
- 145. Special Note about BindingResult Parameter Order 1min
- 146. Add Validation Rule to Customer Class 3min
- 147. Display Validation Error Messages on HTML Form 7min
- 148. Perform Validation in Controller Class - Part 1 4min
- 149. Perform Validation in Controller Class - Part 2 4min
- 150. Update Confirmation Page 4min
- 151. Test the Validation Rule for Required Fields 1min

import javax.validation.constraints.NotNull;  
import javax.validation.constraints.Size;  
  
public class Customer {  
  
 private String firstName;  
  
 @NotNull(message="is required")  
 @Size(min=1, message="is required")  
 private String lastName;  
  
 // getter/setter methods  
}

Error message if validation fails

2x 2:00 / 5:13

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- 144. Checking for Required Fields Overview 5min
- 145. Special Note about BindingResult Parameter Order 1min
- 146. Add Validation Rule to Customer Class 3min
- 147. Display Validation Error Messages on HTML Form 7min
- 148. Perform Validation in Controller Class - Part 1 4min
- 149. Perform Validation in Controller Class - Part 2 4min
- 150. Update Confirmation Page 4min
- 151. Test the Validation Rule for Required Fields 1min

**Step 2: Display error message on HTML form**

customer-form.jsp

```
<form:form action="processForm" modelAttribute="customer">  
    First name: <form:input path="firstName" />  
    <br><br>  
    Last name (*): <form:input path="lastName" />  
    <form:errors path="lastName" cssClass="error" />  
    <br><br>  
    <input type="submit" value="Submit" />  
    Display error message
```

First name: Last name (\*) is required

2x 2:57 / 5:13

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Step 3: Perform validation in Controller class

```
@RequestMapping("/processForm")
public String processForm(
    @Valid @ModelAttribute("customer") Customer theCustomer,
    BindingResult theBindingResult) {
    if (theBindingResult.hasErrors()) {
        return "customer-form";
    } else {
        return "customer-confirmation";
    }
}
```

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Course content

- 144. Checking for Required Fields Overview
- 145. Special Note about BindingResult Parameter Order
- 146. Add Validation Rule to Customer Class
- 147. Display Validation Error Messages on HTML Form
- 148. Perform Validation in Controller Class - Part 1
- 149. Perform Validation in Controller Class - Part 2
- 150. Update Confirmation Page
- 151. Test the Validation Rule for Required Fields

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Step 3: Perform validation in Controller class

```
@RequestMapping("/processForm")
public String processForm(
    @Valid @ModelAttribute("customer") Customer theCustomer,
    BindingResult theBindingResult) {
    if (theBindingResult.hasErrors()) {
        return "customer-form";
    } else {
        return "customer-confirmation";
    }
}
```

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Course content

- 144. Checking for Required Fields Overview
- 145. Special Note about BindingResult Parameter Order
- 146. Add Validation Rule to Customer Class
- 147. Display Validation Error Messages on HTML Form
- 148. Perform Validation in Controller Class - Part 1
- 149. Perform Validation in Controller Class - Part 2
- 150. Update Confirmation Page
- 151. Test the Validation Rule for Required Fields

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Step 4: Update confirmation page

The customer is confirmed: \${customer.firstName} \${customer.lastName}

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Course content

- 144. Checking for Required Fields Overview 3min Resources
- 145. Special Note about BindingResult Parameter Order 1min
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- 147. Display Validation Error Messages on HTML Form 7min Resources
- 148. Perform Validation in Controller Class - Part 1 4min Resources
- 149. Perform Validation in Controller Class - Part 2 4min Resources
- 150. Update Confirmation Page 4min Resources
- 151. Test the Validation Rule for Required Fields 3min Resources

**the BindingResult parameter must appear immediately after the model attribute.**



144-special-note-about-bindingresult-parameter.pdf

## Coding

```
1 package com.luv2code.springdemo;
2
3 public class Customer {
4
5     private String firstName;
6
7     private String lastName;
8
9     public String getFirstName() {
10         return firstName;
11     }
12
13     public void setFirstName(String firstName) {
14         this.firstName = firstName;
15     }
16
17     public String getLastName() {
18         return lastName;
19     }
20 }
```

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Course content

- 146. Add Validation Rule to Customer Class 3min Resources
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- 152. Add Pre-processing Code with @InitBinder - Overview 4min
- 153. Add Pre-processing Code with @InitBinder - Write Some Code

Spring & Hibernate for Beginners (includes Spring Boot)

```

public class Customer {
    private String firstName;
    @NotNull(message="is required")
    @Size(min=1)
    private String lastName;
    public String getFirstName() {
        return firstName;
    }
    public void setFirstName(String firstName) {
        this.firstName = firstName;
    }
}

```

Course content

- 146. Add Validation Rule to Customer Class
- 147. Display Validation Error Messages on HTML Form
- 148. Perform Validation in Controller Class - Part 1
- 149. Perform Validation in Controller Class - Part 2
- 150. Update Confirmation Page
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```

<html>
<body>
<form:form action="processForm" modelAttribute="customer">
    First name: <form:input path="firstName" />
    <br><br>
    Last name: <form:input path="lastName" />
    <form:errors path="lastName" cssClass="error" />
    <br><br>
    <input type="submit" value="Submit" />
</form:form>
</body>

```

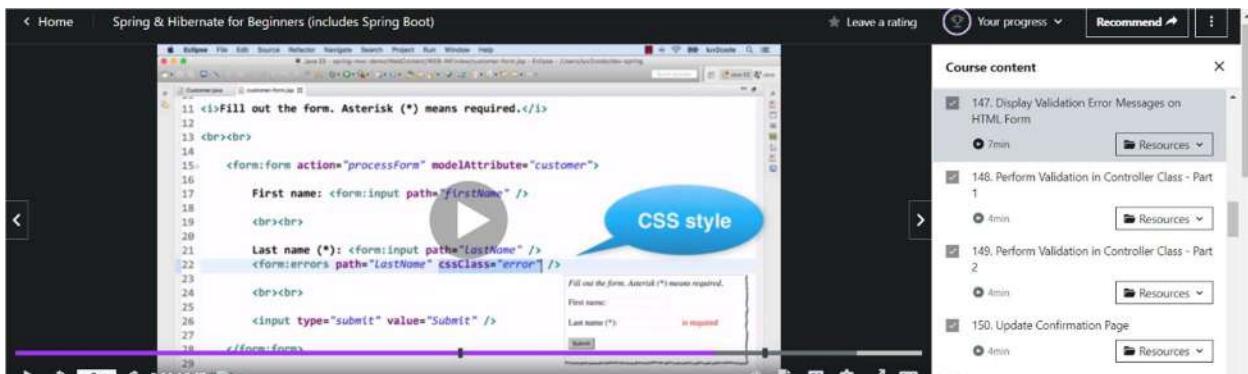
Course content

- 147. Display Validation Error Messages on HTML Form
- 148. Perform Validation in Controller Class - Part 1
- 149. Perform Validation in Controller Class - Part 2
- 150. Update Confirmation Page
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- 153. Add Pre-processing Code with @InitBinder - Write Some Code

Section 16: Spring MVC Form Validation

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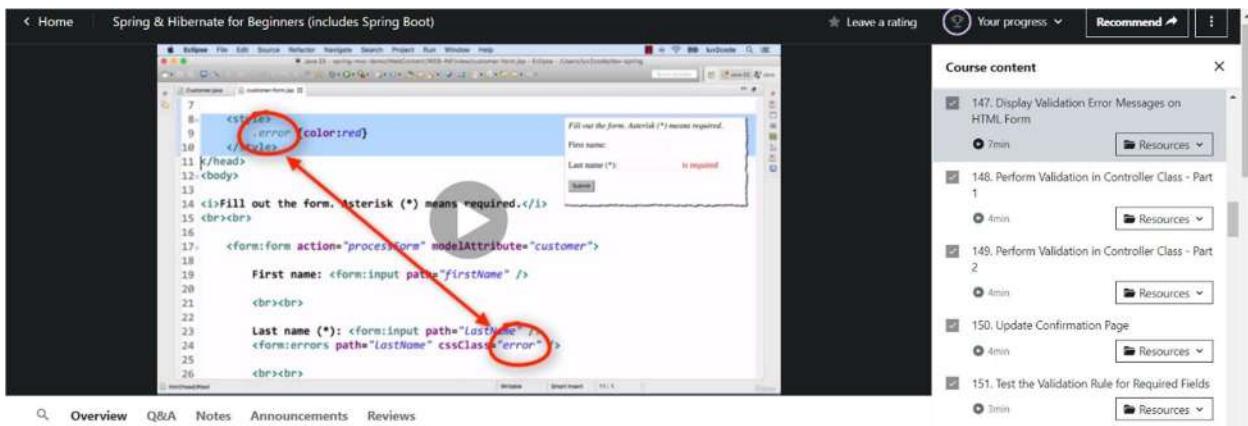


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  - 148. Perform Validation in Controller Class - Part 1
  - 149. Perform Validation in Controller Class - Part 2
  - 150. Update Confirmation Page
  - 151. Test the Validation Rule for Required Fields
  - 152. Add Pre-processing Code with @InitBinder - Overview
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Section 16: Spring MVC Form Validation

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Course content

- 147. Display Validation Error Messages on HTML Form
- 148. Perform Validation in Controller Class - Part 1
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- 148. Perform Validation in Controller Class - Part 1
- 149. Perform Validation in Controller Class - Part 2
- 150. Update Confirmation Page
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- 148. Perform Validation in Controller Class - Part 1 4min [Resources](#)
- 149. Perform Validation in Controller Class - Part 2 4min [Resources](#)
- 150. Update Confirmation Page 4min [Resources](#)
- 151. Test the Validation Rule for Required Fields 3min [Resources](#)
- 152. Add Pre-processing Code with @InitBinder - Overview 4min [Resources](#)
- 153. Add Pre-processing Code with @InitBinder - Write Some Code 5min [Resources](#)

Section 16: Spring MVC Form Validation - Validating Number Ranges and... 9 / 9 | 37min

Section 17: Sorin's MVC Form Validation ...

The screenshot shows a video player interface. On the left, there is a code editor window displaying Java code for a JSP file. On the right, there is a browser window showing a Spring MVC demo home page with links for "Hello World form", "Student form", and "Customer form". The video player has a play button in the center and a progress bar at the bottom.

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Course content

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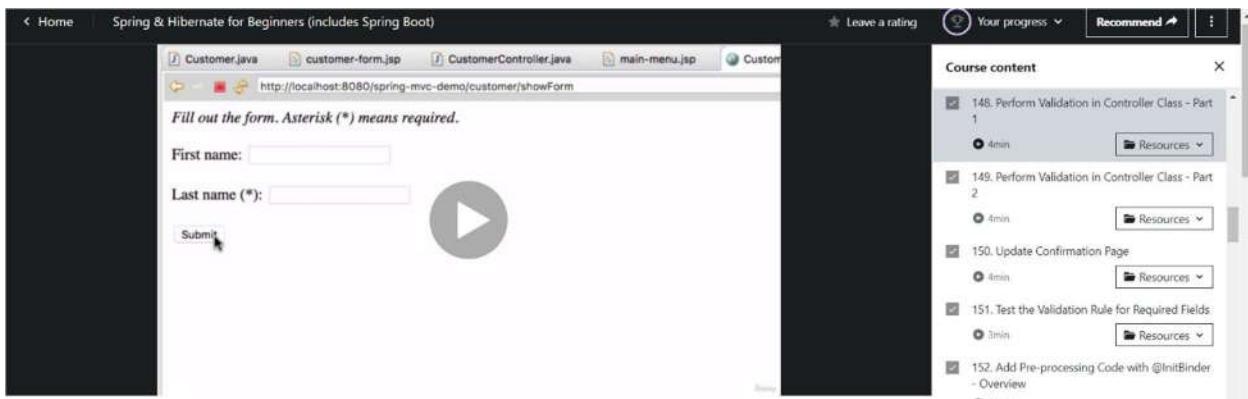
Section 16: Spring MVC Form Validation - Validating Number Ranges and... 9 / 9 | 37min

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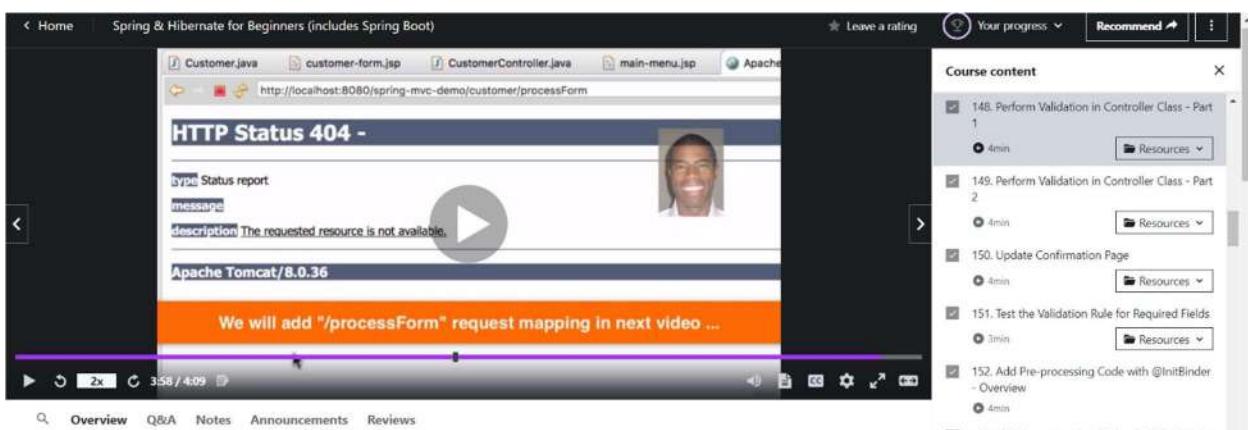
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```
13     theModel.addAttribute("customer", new Customer());
14
15     return "customer-form";
16 }
17
18 @RequestMapping("/processForm")
19 public String processForm() {
20
21     return "customer-confirmation";
22 }
23 }
24 }
25
26
27
28
29
30
31
32 }
```

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4min Resources
  - 150. Update Confirmation Page  
4min Resources
  - 151. Test the Validation Rule for Required Fields  
3min Resources
  - 152. Add Pre-processing Code with @InitBinder - Overview  
4min Resources
  - 153. Add Pre-processing Code with @InitBinder - Write Some Code  
5min Resources

Section 16: Spring MVC Form Validation - Validating Number Ranges and...

Section 17: Spring MVC Form Validation - Creating Custom Validation Rules

Section 18: Introduction to Hibernate

```
@RequestMapping("/processForm")
public String processForm(
    @Valid @ModelAttribute("customer") Customer theCustomer,) {
    return "customer-confirmation";
}
```

Tell Spring to validate the Customer object

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- 149. Perform Validation in Controller Class - Part 2  
4min Resources
  - 150. Update Confirmation Page  
4min Resources
  - 151. Test the Validation Rule for Required Fields  
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5min Resources

Section 16: Spring MVC Form Validation - Validating Number Ranges and...

Section 17: Spring MVC Form Validation - Creating Custom Validation Rules

Section 18: Introduction to Hibernate

The screenshot shows a video player interface. The main area displays Java code for a Spring controller:`@RequestMapping("/processForm")
public String processForm(
 @Valid @ModelAttribute("customer") Customer theCustomer,
 BindingResult theBindingResult) {
 return "customer-confirmation";
}`

A green overlay at the bottom of the video player says "Spring will store results of validation in BindingResult object". A play button is visible in the center of the video player.

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- 149. Perform Validation in Controller Class - Part 2 4min Resources
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Section 16: Spring MVC Form Validation - Validating Number Ranges and...

Section 17: Spring MVC Form Validation - Creating Custom Validation Rules 0 / 0 | 32min

Section 18: Introduction to Hibernate

The screenshot shows a video player interface. The main area displays Java code for a Spring controller:`@RequestMapping("/processForm")
public String processForm(
 @Valid @ModelAttribute("customer") Customer theCustomer,
 BindingResult theBindingResult) {
 return "customer-confirmation";
}`

An orange callout bubble points to the "@Valid" annotation with the text "All happens behind the scenes with Spring magic ...". A blue callout bubble points to the "theBindingResult" parameter with the text "Results of validation placed in the BindingResult".

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- 149. Perform Validation in Controller Class - Part 2 4min Resources
  - 150. Update Confirmation Page 4min Resources
  - 151. Test the Validation Rule for Required Fields 3min Resources
  - 152. Add Pre-processing Code with @InitBinder - Overview 4min Resources
  - 153. Add Pre-processing Code with @InitBinder - Write Some Code 5min Resources

Section 16: Spring MVC Form Validation - Validating Number Ranges and...

Section 17: Spring MVC Form Validation - Creating Custom Validation Rules 0 / 0 | 32min

Section 18: Introduction to Hibernate

The screenshot shows a video player interface. The main content area displays a segment of Java code from a controller class:

```
@RequestMapping("/processForm")
public String processForm(
    @Valid @ModelAttribute("customer") Customer theCustomer,
    BindingResult theBindingResult) {

    if (theBindingResult.hasErrors()) {
        return "customer-form";
    }
    else {
        return "customer-confirmation";
    }
}
```

Below the code, there is a small diagram illustrating a form submission process. The video player controls are visible at the bottom.

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  - 150. Update Confirmation Page
  - 151. Test the Validation Rule for Required Fields
  - 152. Add Pre-processing Code with @InitBinder - Overview
  - 153. Add Pre-processing Code with @InitBinder - Write Some Code

Section 16: Spring MVC Form Validation - Validating Number Ranges and...

Section 17: Spring MVC Form Validation - Creating Custom Validation Rules

Section 18: Introduction to Hibernate

The screenshot shows a video player interface. The main content area displays a Thymeleaf template file (customer-confirmation.html) with the following code:

```
5.<html>
6.
7.<head>
8.     <title>Customer Confirmation</title>
9.</head>
10.<body>
11.
12.    The customer is confirmed: ${customer.firstName} ${customer.lastName}
13.
14.
15.</body>
16.
17.</html>
```

Below the code, there is a video player control bar with a play button and other controls. The video progress bar shows it's at 2:10 of 4:24.

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- Course content
- 150. Update Confirmation Page
  - 151. Test the Validation Rule for Required Fields
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  - 153. Add Pre-processing Code with @InitBinder - Write Some Code

Section 16: Spring MVC Form Validation - Validating Number Ranges and...

Section 17: Spring MVC Form Validation - Creating Custom Validation Rules

Section 18: Introduction to Hibernate

Section 19: Setting Up Hibernate Development Environment

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Course content

- 150. Update Confirmation Page 4min Resources
- 151. Test the Validation Rule for Required Fields 3min Resources
- 152. Add Pre-processing Code with @InitBinder - Overview 4min
- 153. Add Pre-processing Code with @InitBinder - Write Some Code 5min Resources

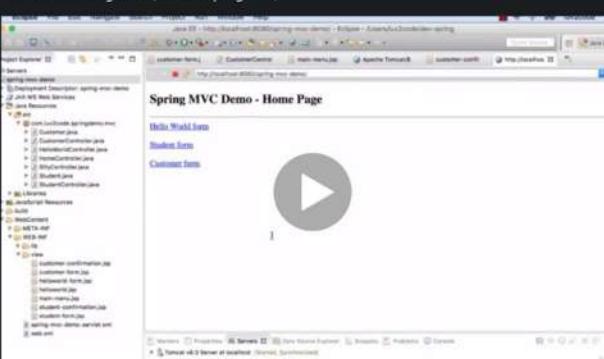
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Section 17: Spring MVC Form Validation - Creating Custom Validation Rules 8 / 8 | 32min

Section 18: Introduction to Hibernate 2 / 2 | 10min

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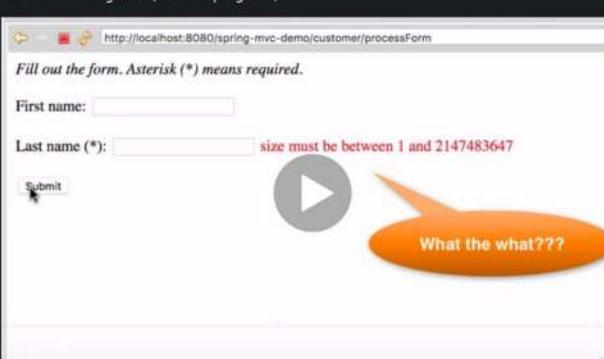
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Section 17: Spring MVC Form Validation - Creating Custom Validation Rules 8 / 8 | 32min

Section 18: Introduction to Hibernate 2 / 2 | 10min

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```
1 package com.luv2code.springdemo.mvc;
2
3 import javax.validation.constraints.NotNull;
4 import javax.validation.constraints.Size;
5
6 public class Customer {
7     private String firstName;
8
9     @NotNull(message="is required")
10    @Size(min=1, message="is required")
11    private String lastName;
12
13     public String getFirstName() {
14         return firstName;
15     }
16
17     public void setFirstName(String firstName) {
18         this.firstName = firstName;
19     }
20 }
```

Place message on  
@Size

Course content

- 150. Update Confirmation Page
- 151. Test the Validation Rule for Required Fields
- 152. Add Pre-processing Code with @InitBinder - Overview
- 153. Add Pre-processing Code with @InitBinder - Write Some Code

Section 16: Spring MVC Form Validation - Validating Number Ranges and...

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```
1 package com.luv2code.springdemo.mvc;
2
3 import javax.validation.constraints.NotNull;
4 import javax.validation.constraints.Size;
5
6 public class Customer {
7     private String firstName;
8
9     @NotNull
10    @Size(min=1, message="is required")
11    private String lastName;
12
13     public String getFirstName() {
14         return firstName;
15     }
16
17     public void setFirstName(String firstName) {
18         this.firstName = firstName;
19     }
20 }
```

Course content

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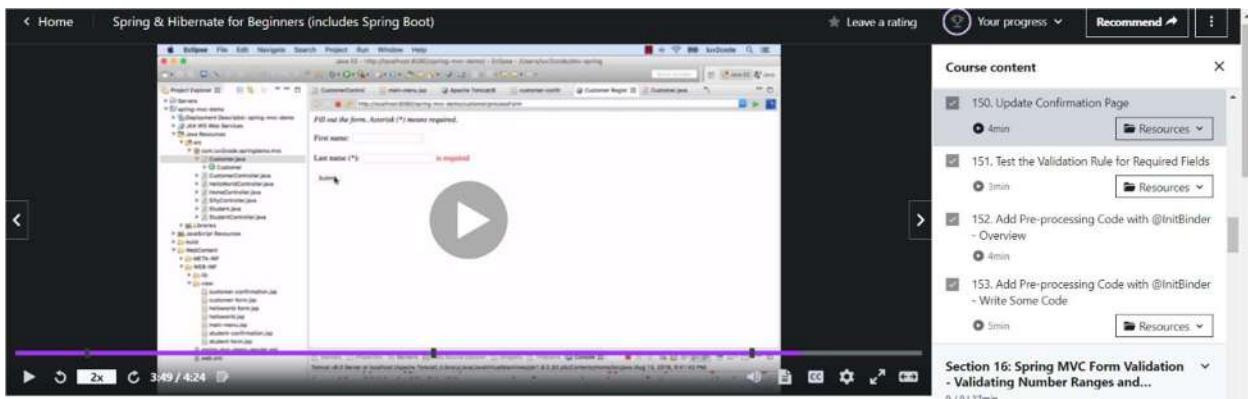
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9 / 9 | 37min

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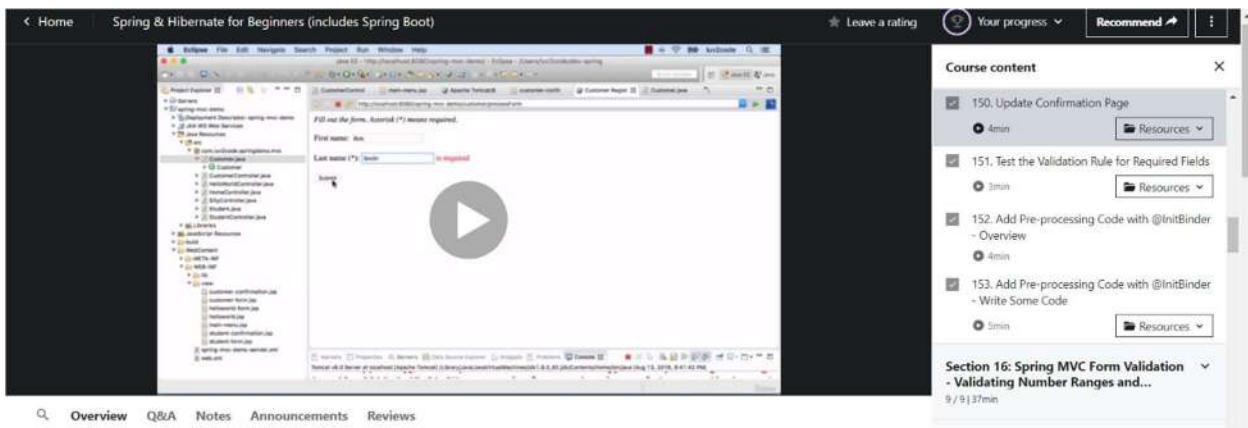
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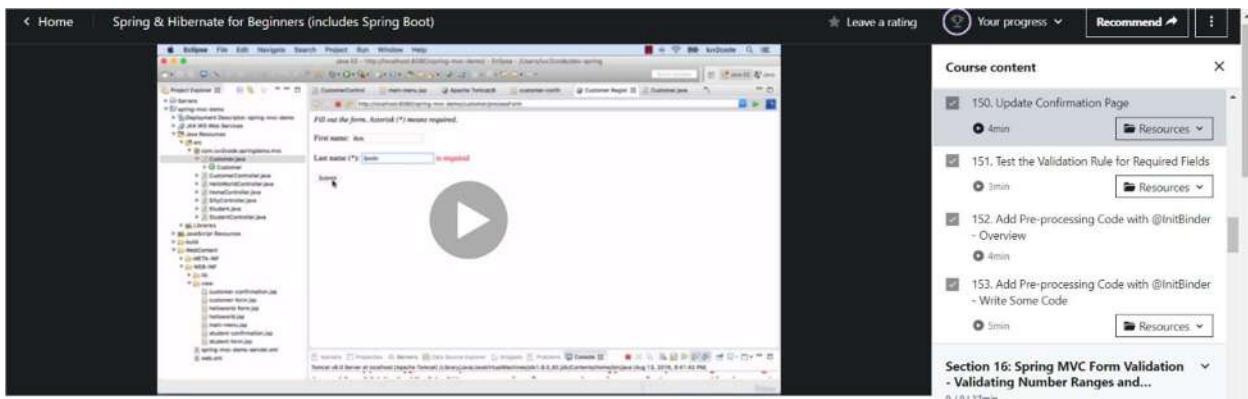
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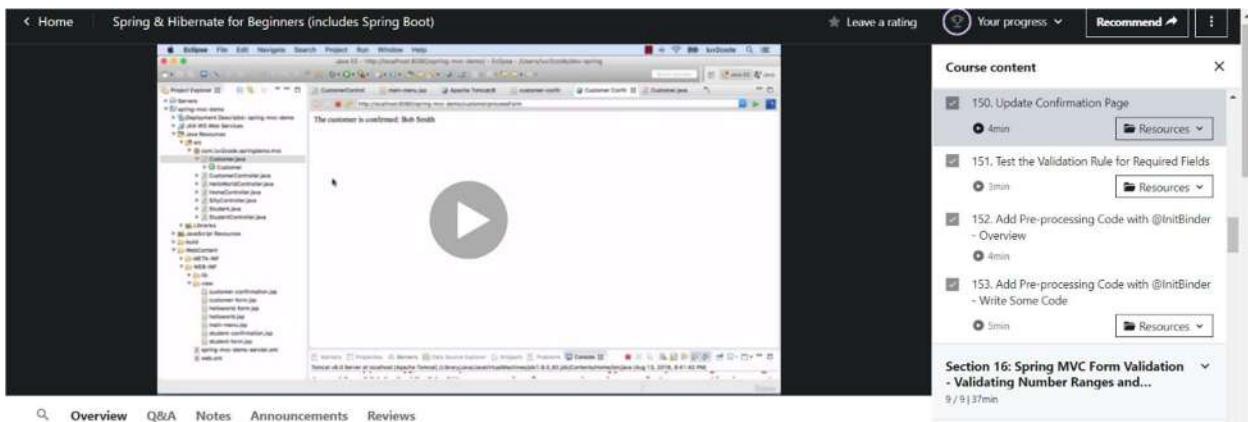
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Let's experiment and try to break it ... LOL

Course content

- 151. Test the Validation Rule for Required Fields
- 152. Add Pre-processing Code with @InitBinder
- 153. Add Pre-processing Code with @InitBinder

Section 16: Spring MVC Form Validation

Section 17: Spring MVC Form Validation

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Print out the lastName for debugging ...

Course content

- 151. Test the Validation Rule for Required Fields
- 152. Add Pre-processing Code with @InitBinder
- 153. Add Pre-processing Code with @InitBinder

Section 16: Spring MVC Form Validation

Section 17: Spring MVC Form Validation

The screenshot shows a course page for "Spring & Hibernate for Beginners (includes Spring Boot)". On the left, there's a video player displaying Java code in an Eclipse IDE. The code is part of a CustomerController.java file, specifically handling a POST request for processing a form. The right side of the screen displays the course navigation menu with sections like "Course content", "Section 16: Spring MVC Form Validation", "Section 17: Spring MVC Form Validation", "Section 18: Introduction to Hibernate", "Section 19: Setting Up Hibernate Development Environment", and "Section 20: Hibernate Configuration".

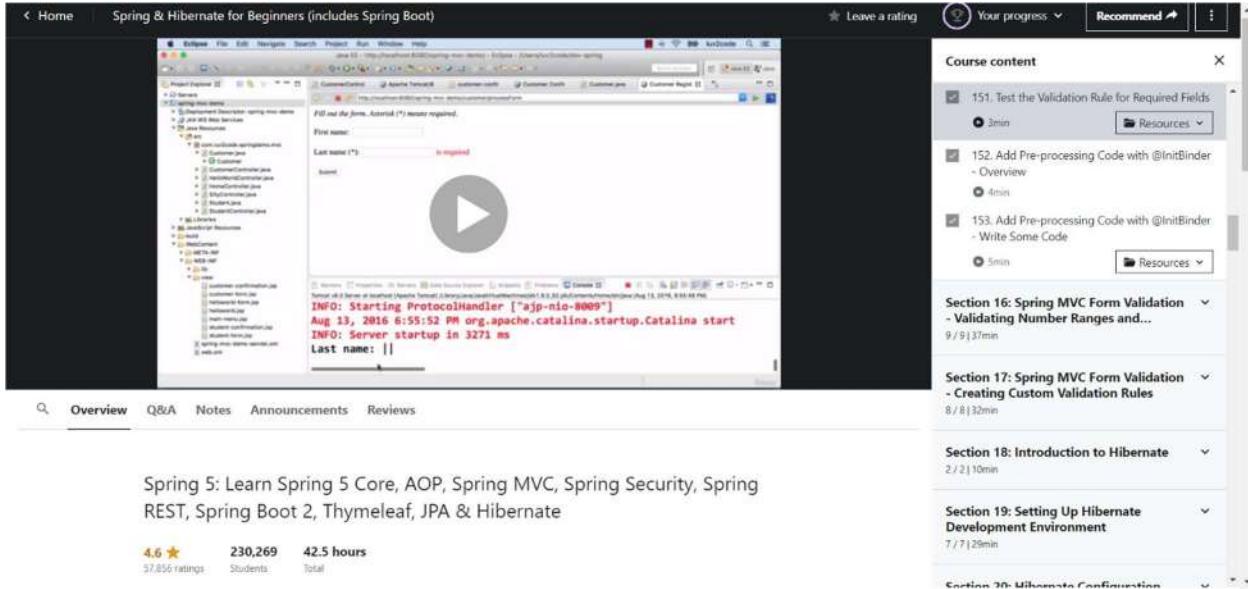
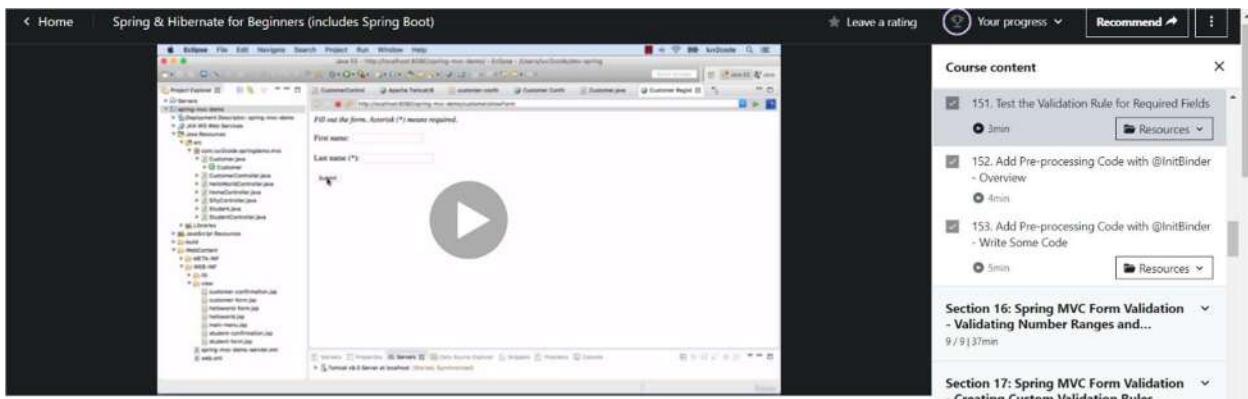
Spring 5: Learn Spring 5 Core, AOP, Spring MVC, Spring Security, Spring REST, Spring Boot 2, Thymeleaf, JPA & Hibernate

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This screenshot is identical to the one above, showing the same course details and navigation menu. However, the video player on the left now displays a screenshot of a web browser showing the "Hello World" page of a Spring MVC application. The browser title is "Spring MVC Demo - Home Page" and it lists "HelloWorldItem", "StudentItem", and "CustomerItem".

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- 151. Test the Validation Rule for Required Fields 3min Resources
- 152. Add Pre-processing Code with @InitBinder - Overview 4min
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Section 17: Spring MVC Form Validation - Creating Custom Validation Rules 8/8 32min

Section 18: Introduction to Hibernate 2/2 10min

Section 19: Setting Up Hibernate Development Environment 7/7 29min

Section 20: Hibernate Configuration

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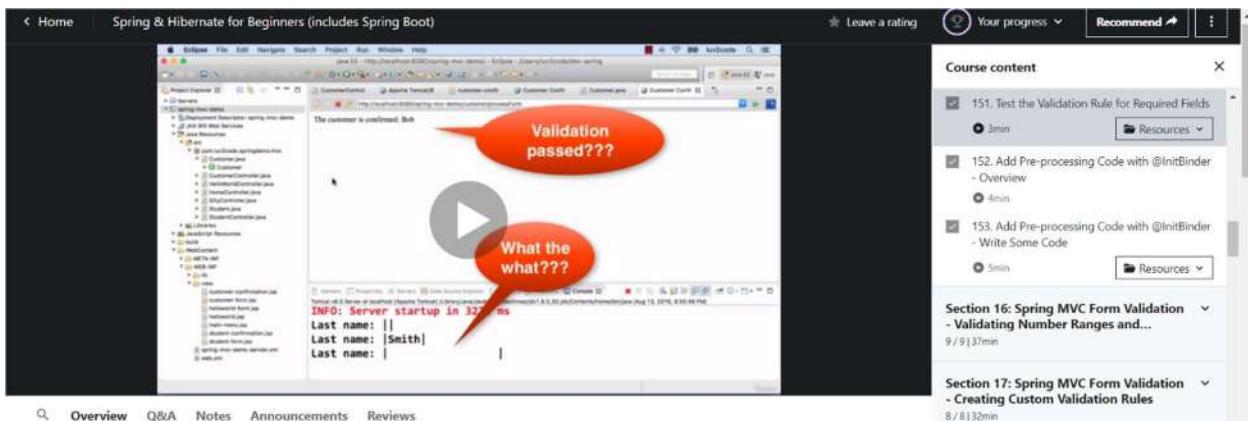
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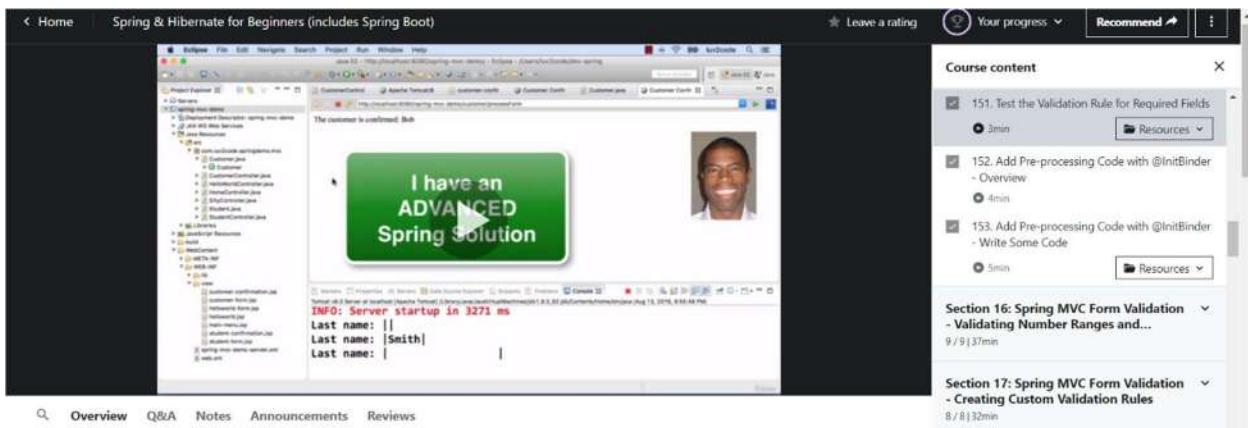
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18-form-validation-ini  
t-binder-trim-overview

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## White Space

- Our previous example had a problem with white space
- Last name field with all whitespace passed ... YIKES!
- Should have failed!
- We need to trim whitespace from input fields

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## @InitBinder

- We will use this to trim Strings
- Remove leading and trailing white space
- If String only has white spaces ... trim it to null
- Will resolve our validation problem ... whew :-)

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## Register Custom Editor in Controller

`CustomerController.java`

```
@InitBinder  
public void initBinder(WebDataBinder dataBinder) {  
  
    StringTrimmerEditor stringTrimmerEditor = new StringTrimmerEditor(true);  
  
    dataBinder.registerCustomEditor(String.class, stringTrimmerEditor);  
}
```

`@InitBinder: pre-process all web requests coming into our Controller`

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`CustomerController.java`

```
@InitBinder  
public void initBinder(WebDataBinder dataBinder) {  
  
    StringTrimmerEditor stringTrimmerEditor = new StringTrimmerEditor(true);  
  
    dataBinder.registerCustomEditor(String.class, stringTrimmerEditor);  
}
```

Defined in Spring API

StringTrimmerEditor: removes whitespace - leading and trailing

True - means trim to null

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## Register Custom Editor in Controller

CustomerController.java

```
@InitBinder  
public void initBinder(WebDataBinder dataBinder) {  
    StringTrimmerEditor stringTrimmerEditor = new StringTrimmerEditor(true);  
    dataBinder.registerCustomEditor(String.class, stringTrimmerEditor);  
}
```

Pre-process every String form data  
Remove leading and trailing whitespace  
If String only has whitespace ... trim it to null

▶ 2x 3:11 / 3:55 🔍

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```
CustomerController.java  
15 @RequestMapping("/customer")  
16 public class CustomerController {  
17  
18     // add an initbinder ... to convert trim input strings  
19     // remove leading and trailing whitespace  
20     // resolve issue for our validation  
21  
22     @InitBinder  
23     public void initBinder(WebDataBinder dataBinder) {  
24  
25         StringTrimmerEditor stringTrimmerEditor = new StringTrimmerEditor(true);  
26  
27         dataBinder.registerCustomEditor(String.class, stringTrimmerEditor);  
28     }  
29  
30     @RequestMapping("/showForm")  
31     public String showForm(Model theModel) {  
32  
33 }
```

Pre-process every String form data  
Remove leading and trailing whitespace  
If String only has whitespace ... trim it to null

▶ 2x 3:11 / 3:55 🔍

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Section 21: Hibernate CRUD Features: Create, Read, Update and Delete 17 / 17 | 1hr 24min

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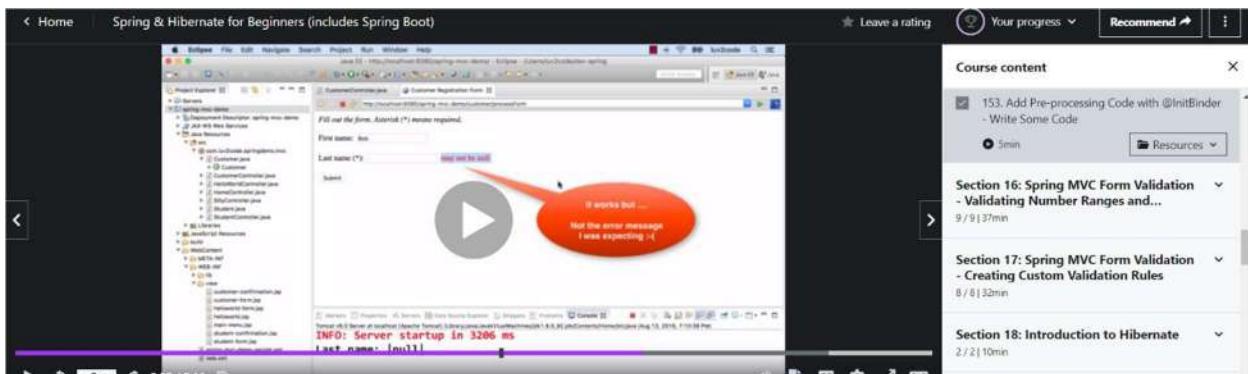
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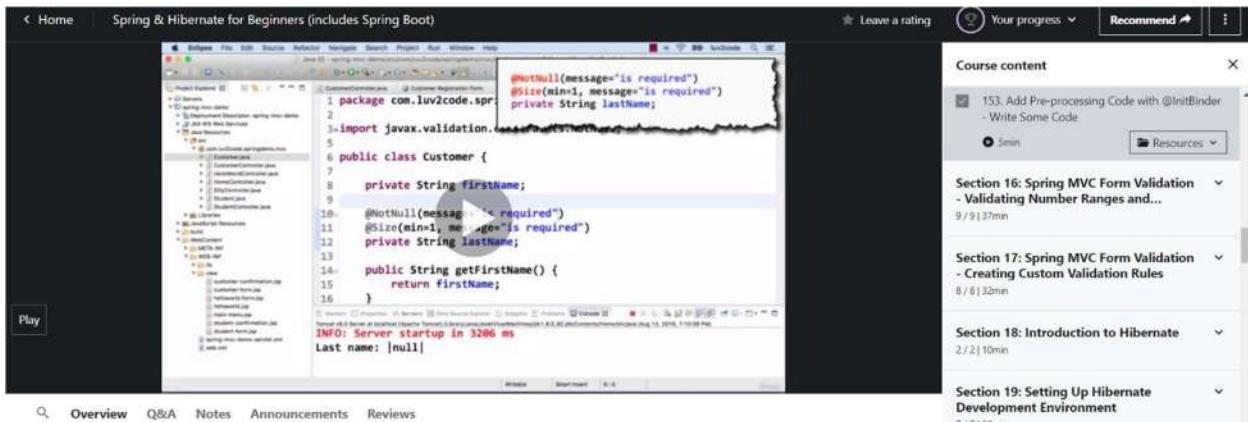
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## Form Validation - Validating a Number Range

PDF  
19-form-validation-range-overview.pdf

## Coding

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- 155. Validating a Number Range - Write Some Code 7min Resources
- 156. Applying Regular Expressions - Overview 2min
- 157. Applying Regular Expressions - Write Some Code 6min Resources
- 158. How to make Integer Field Required: freePasses 5min Resources
- 159. How to Handle String Input for Integer Fields - Custom Message 4min Resources
- 160. How to Handle String Input for Integer Fields - Configure Resource Bundle 4min Resources
- 161. How to Handle String Input for Integer Fields - Deep Dive 5min Resources

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4min Resources

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4min Resources

161. How to Handle String Input for Integer Fields - Deep Dive  
5min Resources

Code editor showing Java code with annotations for validation:

```
12.     @NotNull(message="is required")
13.     @Size(min=1, message="is required")
14.     private String lastName;
15.
16.     @Min(value=0, message="must be greater than or equal to zero")
17.     @Max(value=10, message="must be less than or equal to 10")
18.     private int freePasses;
19.
20.     public String getFirstName() {
21.         return firstName;
22.     }
23.
24.     public void setFirstName(String firstName) {
25.         this.firstName = firstName;
26.     }
27.
28.     public String getLastName() {
29.         return lastName;
30.     }
31.
```

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4min Resources

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4min Resources

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5min Resources

Code editor showing Thymeleaf template code with validation errors:

```
18.     First name: <form:input path="firstName" />
19.
20.     <br><br>
21.
22.     Last name (*): <form:input path="lastName" />
23.     <form:errors path="lastName" cssClass="error" />
24.
25.     <br><br>
26.
27.     Free passes: <form:input path="freePasses" />
28.     <form:errors path="freePasses" cssClass="error" />
29.
30.     <br><br>
31.
32.     <input type="submit" value="Submit" />
33.
34. </form:form>
35.
36.
37. </body>
```

Fill out the form. Asterisk (\*) means required.

First name: Ivo

Last name (\*): mm

Free passes: 0

Submit

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- 161. How to Handle String Input for Integer Fields - Deep Dive

Eclipse Java EE - Spring 5 Core, AOP, Spring MVC, Spring Security, Spring REST, Spring Boot 2, Thymeleaf, JPA & Hibernate

Step 3: Perform validation in the Controller class

```
23. @RequestMapping("/processForm")
24. public String processForm(
25.     @Valid @ModelAttribute("customer") Customer theCustomer,
26.     BindingResult thebindingResult) {
27.
28.     if (thebindingResult.hasErrors()) {
29.         return "customer-form";
30.     } else {
31.         return "customer-confirmation";
32.     }
33.
34. }
35.
```

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Eclipse Java EE - Spring 5 Core, AOP, Spring MVC, Spring Security, Spring REST, Spring Boot 2, Thymeleaf, JPA & Hibernate

Step 3: Perform validation in the Controller class

```
10.
11.<body>
12.
13 The customer is confirmed: ${customer.firstName} ${customer.lastName}
14.
15 <br><br>
16.
17 Free passes: ${customer.freePasses}
18.
19 </body>
20.
21 </html>
22.
23.
24.
25.
26.
27.
28.
29.
```

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Spring MVC Demo - Home Page

Hello World form

Student form

Customer form

155. Validating a Number Range - Write Some Code

156. Applying Regular Expressions - Overview

157. Applying Regular Expressions - Write Some Code

158. How to make Integer Field Required: freePasses

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161. How to Handle String Input for Integer Fields - Deep Dive

Fill out the form. Asterisk (\*) means required.

First name: Bob

Last name (\*): With

Free passes: 555 must be less than or equal to 10

Validation rule: min 0, max 10

155. Validating a Number Range - Write Some Code

156. Applying Regular Expressions - Overview

157. Applying Regular Expressions - Write Some Code

158. How to make Integer Field Required: freePasses

159. How to Handle String Input for Integer Fields - Custom Message

160. How to Handle String Input for Integer Fields - Configure Resource Bundle

161. How to Handle String Input for Integer Fields - Deep Dive

## Form Validation - Regular Expression



20-form-validation-re  
gex-overview.pdf

Step 1: Add validation rule to Customer class

```
import javax.validation.constraints.Pattern;
public class Customer {
    @Pattern(regexp="^a-zA-Z0-9{5}", message="only 5 chars/digits")
    private String postalCode;
    // getter/setter methods
}
```

The regular expression pattern  
Advanced  
message

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160. How to Handle String Input for Integer Fields - Configure Resource Bundle	4min
161. How to Handle String Input for Integer Fields - Deep Dive	5min
162. FAQ: How to make Integer field required and handle Strings: freePasses	2min

## Coding

Customer.java

```
17-     @Min(value=0, message="must be greater than or equal to zero")
18-     @Max(value=10, message="must be less than or equal to 10")
19-     private int freePasses;
20-
21-     @Pattern(regexp="^a-zA-Z0-9{5}", message="only 5 chars/digits")
22-     private String postalCode;
23-
24-     public String getPostalCode() {
25-         return postalCode;
26-     }
27-
28-     public void setPostalCode(String postalCode) {
29-         this.postalCode = postalCode;
30-     }
31-
32-     public String getFirstName() {
33-         return firstName;
34-     }
```

The regular expression pattern  
Advanced  
message

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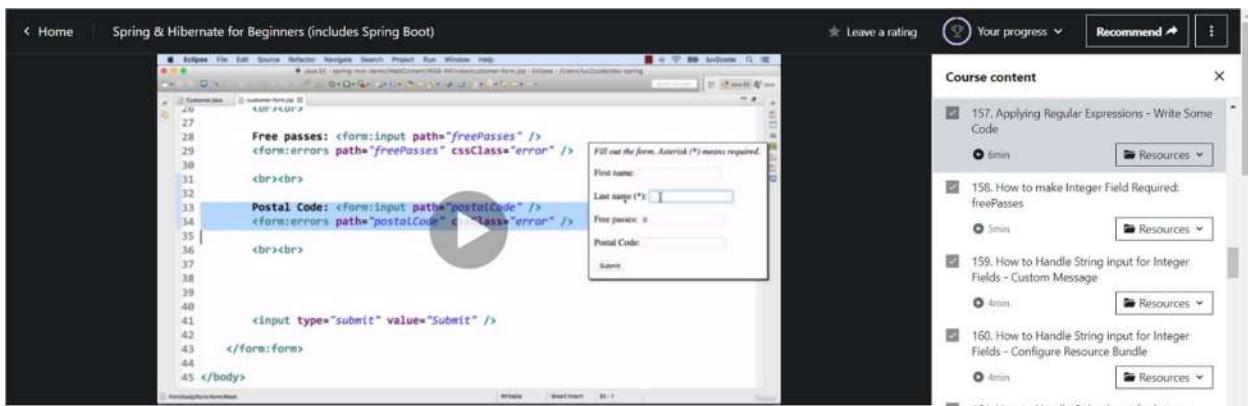
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4.6 ★ 231,457 Students 42.5 hours

Section 17: Spring MVC Form Validation

- Creating Custom Validation Rules

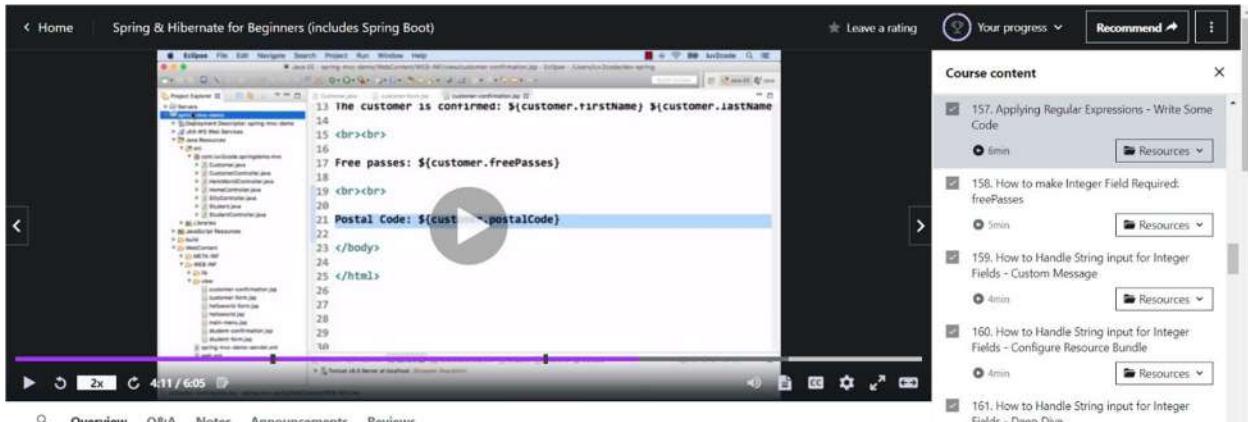


Spring 5: Learn Spring 5 Core, AOP, Spring MVC, Spring Security, Spring REST, Spring Boot 2, Thymeleaf, JPA & Hibernate

4.6 ★ 231,457 Students 42.5 hours Total

- Course content
- 157. Applying Regular Expressions - Write Some Code 0 min Resources
  - 158. How to make Integer Field Required: freePasses 5 min Resources
  - 159. How to Handle String input for Integer Fields - Custom Message 4 min Resources
  - 160. How to Handle String input for Integer Fields - Configure Resource Bundle 4 min Resources
  - 161. How to Handle String input for Integer Fields - Deep Dive 5 min Resources
  - 162. FAQ: How to make Integer field required and handle Strings: freePasses 2 min Resources

Section 17: Spring MVC Form Validation - Creating Custom Validation Rules



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Section 17: Spring MVC Form Validation - Creating Custom Validation Rules

Spring MVC Demo - Home Page

Hello World form  
Student form  
Customer form

425 / 605

Course content

- 157. Applying Regular Expressions - Write Some Code
- 158. How to make Integer Field Required: freePasses
- 159. How to Handle String input for Integer Fields - Custom Message
- 160. How to Handle String input for Integer Fields - Configure Resource Bundle
- 161. How to Handle String input for Integer Fields - Deep Dive
- 162. FAQ: How to make Integer field required and handle Strings: freePasses

Spring 5: Learn Spring 5 Core, AOP, Spring MVC, Spring Security, Spring REST, Spring Boot 2, Thymeleaf, JPA & Hibernate

4.6 ★  
58,161 ratings  
231,457 Students  
42.5 hours Total

Section 17: Spring MVC Form Validation  
- Creating Custom Validation Rules

Fill out the form. Asterisk (\*) means required.

First name:

Last name (\*): smith

Free passes: 0

Postal Code: aiktjxxdsjfdsakjklas only 5 chars/digits

Submit

Course content

- 157. Applying Regular Expressions - Write Some Code
- 158. How to make Integer Field Required: freePasses
- 159. How to Handle String input for Integer Fields - Custom Message
- 160. How to Handle String input for Integer Fields - Configure Resource Bundle
- 161. How to Handle String input for Integer Fields - Deep Dive
- 162. FAQ: How to make Integer field required and handle Strings: freePasses

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Section 17: Spring MVC Form Validation  
- Creating Custom Validation Rules

## How to make Integer Field Required- freepasses

[← Home](#) Spring & Hibernate for Beginners (includes Spring Boot)

Customer Registration Form <http://localhost:8080/spring-mvc-demo/customer/showForm>

Fill out the form. Asterisk (\*) means required.

First name:

Last name (\*):

Free passes:  0

Postal Code:

Course Code:

Submit

Let's make this integer field required

luv<sup>2</sup>code

Course content

- 158. How to make Integer Field Required: freePasses 3min Resources
- 159. How to Handle String input for Integer Fields - Custom Message 4min Resources
- 160. How to Handle String input for Integer Fields - Configure Resource Bundle 4min Resources
- 161. How to Handle String input for Integer Fields - Deep Dive 5min Resources
- 162. FAQ: How to make Integer field required and handle Strings: freePasses 2min Resources

Overview Q&A Notes Announcements Reviews

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Section 17: Spring MVC Form Validation - Creating Custom Validation Rules

8 / 8 | 32min

Section 18: Introduction to Hibernate

2 / 2 | 10min

[← Home](#) Spring & Hibernate for Beginners (includes Spring Boot)

Customer Registration Form

```
11 public class Customer {
12     private String firstName;
13     @NotNull(message="is required")
14     @Size(min=1, message="is required")
15     private String lastName;
16     @NotNull(message="is required")
17     @Min(value=0, message="must be greater than or equal to zero")
18     @Max(value=10, message="must be less than or equal to 10")
19     private int freePasses;
20     @Pattern(regexp="^a-zA-Z0-9{5}", message="only 5 chars/digits")
21     private String postalCode;
22     @CourseCode(values="TOPS", message="must start with TOPS")
23     private String courseCode;
24     multi String setCourseCodes();
25 }
```

I added @NotNull

Course content

- 158. How to make Integer Field Required: freePasses 3min Resources
- 159. How to Handle String input for Integer Fields - Custom Message 4min Resources
- 160. How to Handle String input for Integer Fields - Configure Resource Bundle 4min Resources
- 161. How to Handle String input for Integer Fields - Deep Dive 5min Resources
- 162. FAQ: How to make Integer field required and handle Strings: freePasses 2min Resources

Overview Q&A Notes Announcements Reviews

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Section 17: Spring MVC Form Validation - Creating Custom Validation Rules

8 / 8 | 32min

Section 18: Introduction to Hibernate

2 / 2 | 10min

Spring MVC Demo - Home Page

Hello World form

Student form

Customer form

Test if freePasses field is required

Course content

- 158. How to make Integer Field Required: freePasses
- 159. How to Handle String input for Integer Fields - Custom Message
- 160. How to Handle String input for Integer Fields - Configure Resource Bundle
- 161. How to Handle String input for Integer Fields - Deep Dive
- 162. FAQ: How to make Integer field required and handle Strings: freePasses

Section 17: Spring MVC Form Validation

Section 18: Introduction to Hibernate

Fill out the form. Asterisk (\*) means required.

First name:

Last name (\*): smith

Free passes: Failed to convert property value of type [java.lang.String] to required type [int] for property freePasses; nested exception is java.lang.NumberFormatException: For input string: ""

Postal Code:

Course Code:

Submit

Course content

- 158. How to make Integer Field Required: freePasses
- 159. How to Handle String input for Integer Fields - Custom Message
- 160. How to Handle String input for Integer Fields - Configure Resource Bundle
- 161. How to Handle String input for Integer Fields - Deep Dive
- 162. FAQ: How to make Integer field required and handle Strings: freePasses

Section 17: Spring MVC Form Validation

Section 18: Introduction to Hibernate

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 Refactor field: change to "Integer"

```
11 public class Customer {  
12     private String lastName;  
13  
14     @NotNull(message="is required")  
15     @Size(min=1, message="is required")  
16     private String lastName;  
17  
18     @NotNull(message="is required")  
19     @Min(value=0, message="must be greater than or equal to zero")  
20     @Max(value=10, message="must be less than or equal to 10")  
21     private Integer freePasses;  
22  
23     @Pattern(regexp="[a-zA-Z0-9]{5}", message="only 5 chars/digits")  
24     private String postalCode;  
25  
26     @CourseCode(value="TOPS", message="must start with TOPS")  
27     private String courseCode;  
28  
29     @Email(message="not a valid email")  
30 }
```

Course content

- 158. How to make Integer Field Required: freePasses 3min Resources
- 159. How to Handle String input for Integer Fields - Custom Message 4min Resources
- 160. How to Handle String input for Integer Fields - Configure Resource Bundle 4min Resources
- 161. How to Handle String input for Integer Fields - Deep Dive 5min Resources
- 162. FAQ: How to make Integer field required and handle Strings: freePasses 2min Resources

Section 17: Spring MVC Form Validation - Creating Custom Validation Rules 8 / 8 | 32min

Section 18: Introduction to Hibernate 2 / 2 | 10min

Overview Q&A Notes Announcements Reviews

Spring 5: Learn Spring 5 Core, AOP, Spring MVC, Spring Security, Spring REST, Spring Boot 2, Thymeleaf, JPA & Hibernate

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The screenshot shows a course page for "Spring & Hibernate for Beginners (includes Spring Boot)". The main content area displays a Java code editor with a registration form and a browser window showing a form submission. The browser window has a red box around the "Free passes" field, which contains the text "is required". Below the browser window, there is a message: "Fill out the form. Asterisk (\*) means required." The sidebar on the right lists course content items 158 through 162.

The screenshot shows a course page for "Spring & Hibernate for Beginners (includes Spring Boot)". The main content area displays a Java code editor with a confirmation message: "The customer is confirmed: smith" and a small profile picture of a person. Below the confirmation message, there is a message: "Refactored field: changed 'int' to 'Integer'". The sidebar on the right lists course content items 158 through 162.

## Custom Messages:



21-form-validation-cu  
stom-overview.pdf

The screenshot shows a video player interface. The main video frame displays a screenshot of a web browser. The browser shows a form titled "Customer Registration Form" with fields for First name, Last name, Postal Code, and Course Code. A validation error message is visible: "Free passes: [a|b|c|d|e] Failed to convert property value of type [java.lang.String] to required type [java.lang.Integer] for property freePasses; nested exception is java.lang.NumberFormatException. For input string: 'aklfjalkfjskjdsfa'". Below the video frame, there are navigation controls (play, volume, progress bar) and a timestamp of 0:37 / 3:58.

Overview Q&A Notes Announcements Reviews

Spring 5: Learn Spring 5 Core, AOP, Spring MVC, Spring Security, Spring REST, Spring Boot 2, Thymeleaf, JPA & Hibernate

4.6 ★ 231,457 Students 42.5 hours

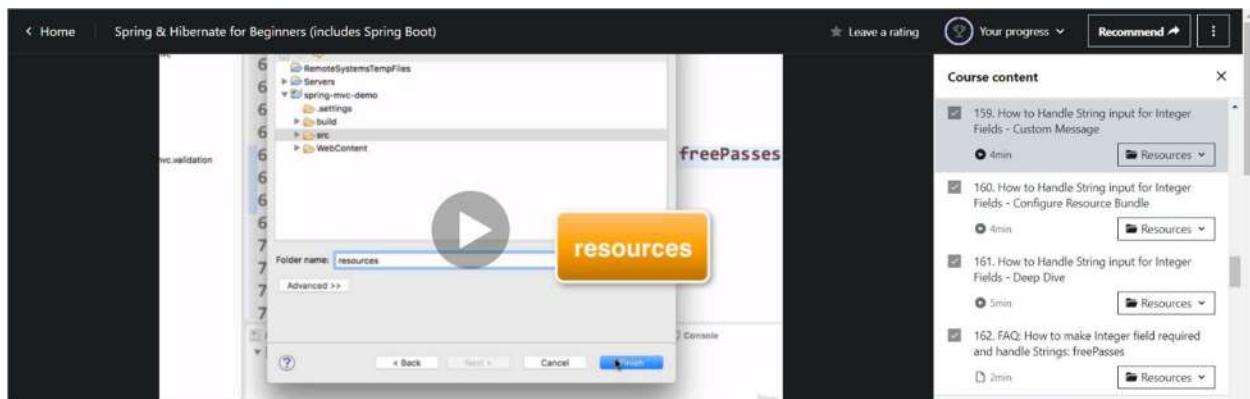
The screenshot shows a video player interface. The main video frame displays a slide with the title "Development Process" and a green "Step-By-Step" button. The slide lists two steps: "1. Create custom error message" (with a link to "src/resources/messages.properties") and "2. Load custom messages resource in Spring config file" (with a link to "WebContent/WEB-INF/spring-mvc-demo-servlet.xml"). Below the slide, a banner says "We will give our own custom error message". The banner includes the "luv2code" logo and the URL "www.luv2code.com". To the right of the video frame is a sidebar titled "Course content" containing four sections: "159. How to Handle String input for Integer Fields - Custom Message", "160. How to Handle String input for Integer Fields - Configure Resource Bundle", "161. How to Handle String input for Integer Fields - Deep Dive", and "162. FAQ: How to make Integer field required and handle Strings: freePasses". Below these are three sections: "Section 17: Spring MVC Form Validation - Creating Custom Validation Rules", "Section 18: Introduction to Hibernate", and "Section 19: Setting Up Hibernate Development Environment".

Overview Q&A Notes Announcements Reviews

Spring 5: Learn Spring 5 Core, AOP, Spring MVC, Spring Security, Spring REST, Spring Boot 2, Thymeleaf, JPA & Hibernate

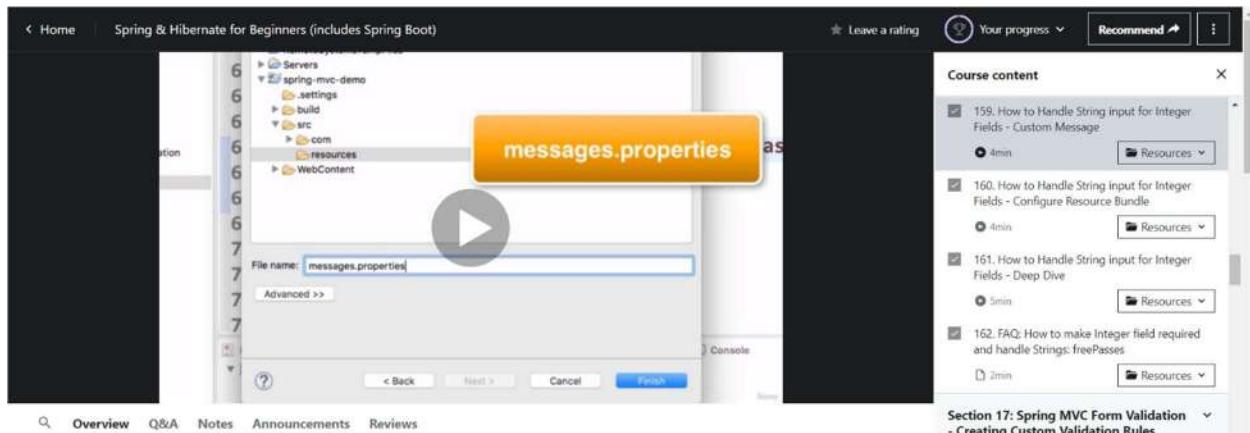
4.6 ★ 231,457 Students 42.5 hours

Create Folder "resources" under src



Spring 5: Learn Spring 5 Core, AOP, Spring MVC, Spring Security, Spring REST, Spring Boot 2, Thymeleaf, JPA & Hibernate

4.6 ★ 231,457 Students 42.5 hours Total



Spring 5: Learn Spring 5 Core, AOP, Spring MVC, Spring Security, Spring REST, Spring Boot 2, Thymeleaf, JPA & Hibernate

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Spring 5: Learn Spring 5 Core, AOP, Spring MVC, Spring Security, Spring REST, Spring Boot 2, Thymeleaf, JPA & Hibernate

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42.5 hours Total

Section 17: Spring MVC Form Validation - Creating Custom Validation Rules  
8 / 8 | 32min

Section 18: Introduction to Hibernate  
2 / 2 | 10min

Section 19: Setting Up Hibernate Development Environment  
7 / 7 | 29min

Spring 5: Learn Spring 5 Core, AOP, Spring MVC, Spring Security, Spring REST, Spring Boot 2, Thymeleaf, JPA & Hibernate

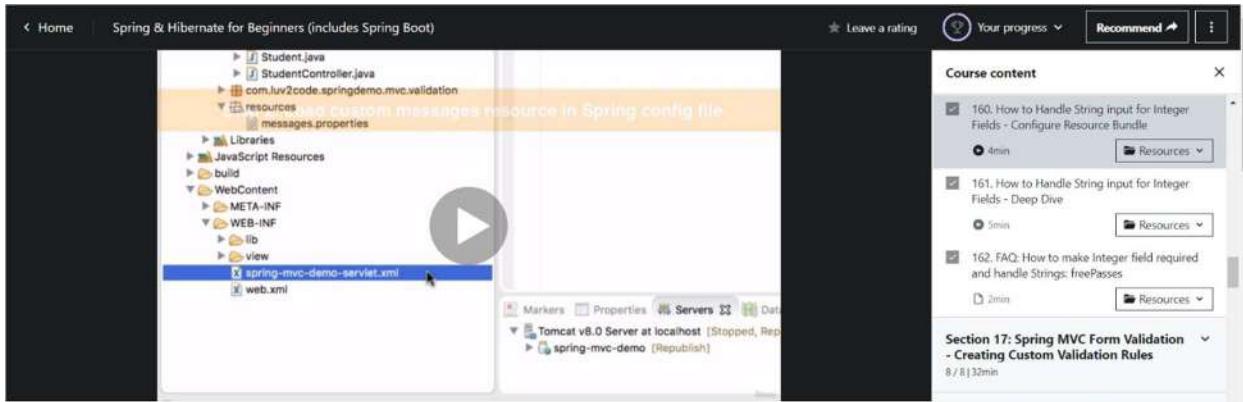
4.6 ★  
50,161 ratings  
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42.5 hours Total

Section 17: Spring MVC Form Validation - Creating Custom Validation Rules  
8 / 8 | 32min

Section 18: Introduction to Hibernate  
2 / 2 | 10min

Section 19: Setting Up Hibernate Development Environment  
7 / 7 | 29min

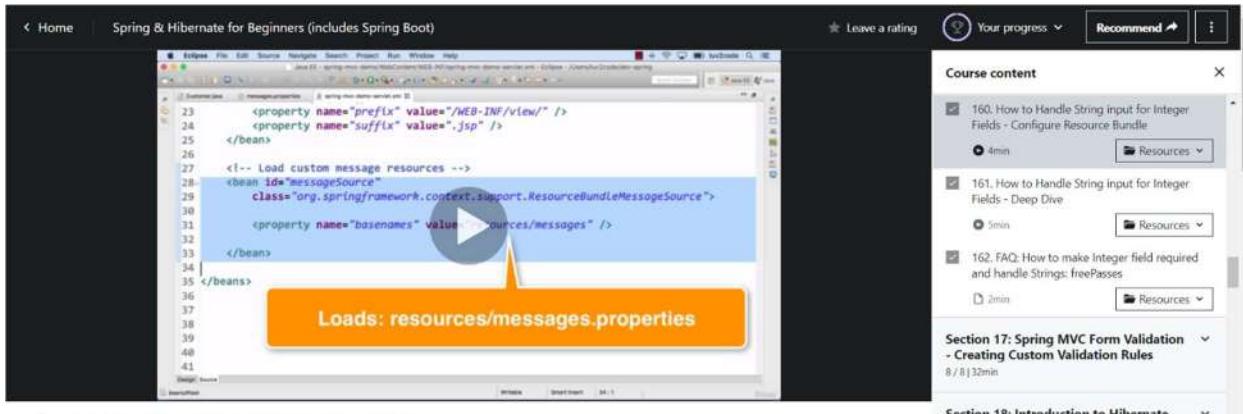
Section 20: Hibernate Configuration with Annotations  
8 / 8 | 22min



Spring 5: Learn Spring 5 Core, AOP, Spring MVC, Spring Security, Spring REST, Spring Boot 2, Thymeleaf, JPA & Hibernate

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50,161 ratings  
231,457 Students  
42.5 hours Total

- Course content
  - 160. How to Handle String input for Integer Fields - Configure Resource Bundle  
4min Resources
  - 161. How to Handle String input for Integer Fields - Deep Dive  
5min Resources
  - 162. FAQ: How to make Integer field required and handle Strings: freePasses  
2min Resources
- Section 17: Spring MVC Form Validation - Creating Custom Validation Rules  
8 / 8 | 32min
- Section 18: Introduction to Hibernate  
2 / 2 | 10min
- Section 19: Setting Up Hibernate Development Environment  
7 / 7 | 29min
- Section 20: Hibernate Configuration with Annotations  
8 / 8 | 22min



Spring 5: Learn Spring 5 Core, AOP, Spring MVC, Spring Security, Spring REST, Spring Boot 2, Thymeleaf, JPA & Hibernate

4.6 ★  
50,161 ratings  
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- Course content
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- Section 17: Spring MVC Form Validation - Creating Custom Validation Rules  
8 / 8 | 32min
- Section 18: Introduction to Hibernate  
2 / 2 | 10min
- Section 19: Setting Up Hibernate Development Environment  
7 / 7 | 29min
- Section 20: Hibernate Configuration with Annotations  
8 / 8 | 22min

Spring MVC Demo - Home Page

Hello World form

Student form

Customer form

Overview Q&A Notes Announcements Reviews

Spring 5: Learn Spring 5 Core, AOP, Spring MVC, Spring Security, Spring REST, Spring Boot 2, Thymeleaf, JPA & Hibernate

4.6 ★ 231,457 Students 42.5 hours

Fill out the form. Asterisk (\*) means required.

First name:

Last name (\*): smith

Free passes: alkjaskfjasikf Invalid number

Postal Code:

Course Code:

Submit

Overview Q&A Notes Announcements Reviews

Spring 5: Learn Spring 5 Core, AOP, Spring MVC, Spring Security, Spring REST, Spring Boot 2, Thymeleaf, JPA & Hibernate

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- 160. How to Handle String Input for Integer Fields - Configure Resource Bundle 4min Resources
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  - 162. FAQ: How to make Integer field required and handle Strings: freePasses 2min Resources
- Section 17: Spring MVC Form Validation - Creating Custom Validation Rules 8 / 8 | 32min
- Section 18: Introduction to Hibernate 2 / 2 | 10min
- Section 19: Setting Up Hibernate Development Environment 7 / 7 | 29min
- Section 20: Hibernate Configuration with Annotations 8 / 8 | 22min

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- Section 19: Setting Up Hibernate Development Environment 7 / 7 | 29min
- Section 20: Hibernate Configuration with Annotations 8 / 8 | 22min

Spring & Hibernate for Beginners (includes Spring Boot)

Course content

- 160. How to Handle String input for Integer Fields - Configure Resource Bundle
- 161. How to Handle String input for Integer Fields - Deep Dive
- 162. FAQ: How to make Integer field required and handle Strings: freePasses

Section 17: Spring MVC Form Validation - Creating Custom Validation Rules

Section 18: Introduction to Hibernate

Section 19: Setting Up Hibernate Development Environment

Section 20: Hibernate Configuration with Annotations

Section 21: Hibernate CRUD Features: Create, Read, Update and Delete

Spring 5: Learn Spring 5 Core, AOP, Spring MVC, Spring Security, Spring REST, Spring Boot 2, Thymeleaf, JPA & Hibernate

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Printing the BindingResult to know the behind the scenes

Spring & Hibernate for Beginners (includes Spring Boot)

Course content

- 161. How to Handle String input for Integer Fields - Deep Dive
- 162. FAQ: How to make Integer field required and handle Strings: freePasses

Section 17: Spring MVC Form Validation - Creating Custom Validation Rules

Section 18: Introduction to Hibernate

Section 19: Setting Up Hibernate Development Environment

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Spring MVC Demo - Home Page

Hello World form

Student form

Customer form

Course content

- 161. How to Handle String input for Integer Fields - Deep Dive
- 162. FAQ: How to make Integer field required and handle Strings: freePasses

Section 17: Spring MVC Form Validation - Creating Custom Validation Rules

Section 18: Introduction to Hibernate

Section 19: Setting Up Hibernate Development Environment

Section 20: Hibernate Configuration with Annotations

Section 21: Hibernate CRUD Features: Create, Read, Update and Delete

Spring 5: Learn Spring 5 Core, AOP, Spring MVC, Spring Security, Spring REST, Spring Boot 2, Thymeleaf, JPA & Hibernate

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Fill out the form. Asterisk (\*) means required.

First name:

Last name (\*): smith

Free passes:  Invalid number

Postal Code:

Course Code:

Submit

Course content

- 161. How to Handle String input for Integer Fields - Deep Dive
- 162. FAQ: How to make Integer field required and handle Strings: freePasses

Section 17: Spring MVC Form Validation - Creating Custom Validation Rules

Section 18: Introduction to Hibernate

Section 19: Setting Up Hibernate Development Environment

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Course content

- 161: How to Handle String input for Integer Fields - Deep Dive
- 162: FAQ: How to make Integer field required and handle Strings: freePasses

Section 17: Spring MVC Form Validation - Creating Custom Validation Rules

Section 18: Introduction to Hibernate

Section 19: Setting Up Hibernate Development Environment

Section 20: Hibernate Configuration with Annotations

Section 21: Hibernate CRUD Features: Create, Read, Update and Delete

Last name: [smith]  
Binding result: org.springframework.validation.BeanPropertyBindingResult: 1 errors  
Field error in object 'customer' on field 'freePasses': rejected value [lakjfaljkjsaklf]

Overview Q&A Notes Announcements Reviews

2x 203 / 442

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Course content

- 161: How to Handle String input for Integer Fields - Deep Dive
- 162: FAQ: How to make Integer field required and handle Strings: freePasses

Section 17: Spring MVC Form Validation - Creating Custom Validation Rules

Section 18: Introduction to Hibernate

Section 19: Setting Up Hibernate Development Environment

Section 20: Hibernate Configuration with Annotations

Section 21: Hibernate CRUD Features: Create, Read, Update and Delete

1 errors  
kjfaljkjsaklf]; codes [typeMismatch.customer.freePasses,typeMismatch.freePasses,typeMi:  
We are overriding this error "code" with our own "message".

Overview Q&A Notes Announcements Reviews

4.6 ★ 231,457 Students 42.5 hours

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Course content

- 161. How to Handle String Input for Integer Fields - Deep Dive 3min Resources
- 162. FAQ: How to make Integer field required and handle Strings: freePasses 2min Resources

Section 17: Spring MVC Form Validation - Creating Custom Validation Rules 32min

Section 18: Introduction to Hibernate 10min

Section 19: Setting Up Hibernate Development Environment 29min

Section 20: Hibernate Configuration with Annotations 22min

Section 21: Hibernate CRUD Features: Create, Read, Update and Delete 24min

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## How to Make Integer field required and handle Strings: freePasses?



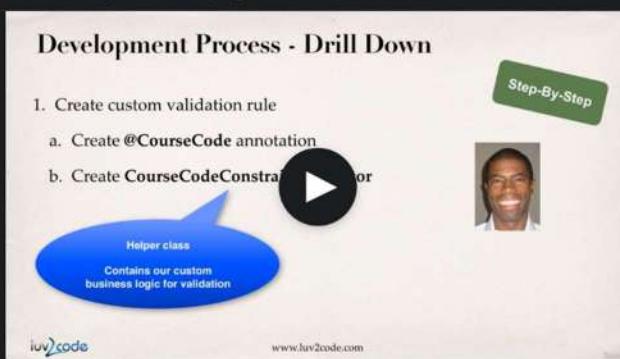
161-faq-how-to-make-integer-field-required

## Spring Custom Validation



21-form-validation-custom-overview.pdf

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Course content

- 163. Custom Form Validation - Overview - Part 1 4min Resources
- 164. Custom Form Validation - Overview - Part 2 6min Resources
- 165. Creating a Custom Java Annotation - Part 1 4min Resources
- 166. Creating a Custom Java Annotation - Part 2 3min Resources
- 167. Developing the ConstraintValidator 5min Resources
- 168. Adding Validation Rule to the Entity and Form 4min Resources
- 169. Testing the Custom Validation Rule 5min Resources
- 170. FAQ: Spring MVC Custom Validation - Possible to validate with multiple strings? 1min Resources

Section 18: Introduction to Hibernate

Spring 5: Learn Spring 5 Core, AOP, Spring MVC, Spring Security, Spring REST, Spring Boot 2, Thymeleaf, JPA & Hibernate

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## Step 1a: Create @CourseCode annotation

Advanced

Usage Example

`@CourseCode(value="LUV") @Pattern(regexp="must start with LUV") private String courseCode;`

Field in our entity class: Student.java

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0:17 10:20:05

www.luv2code.com

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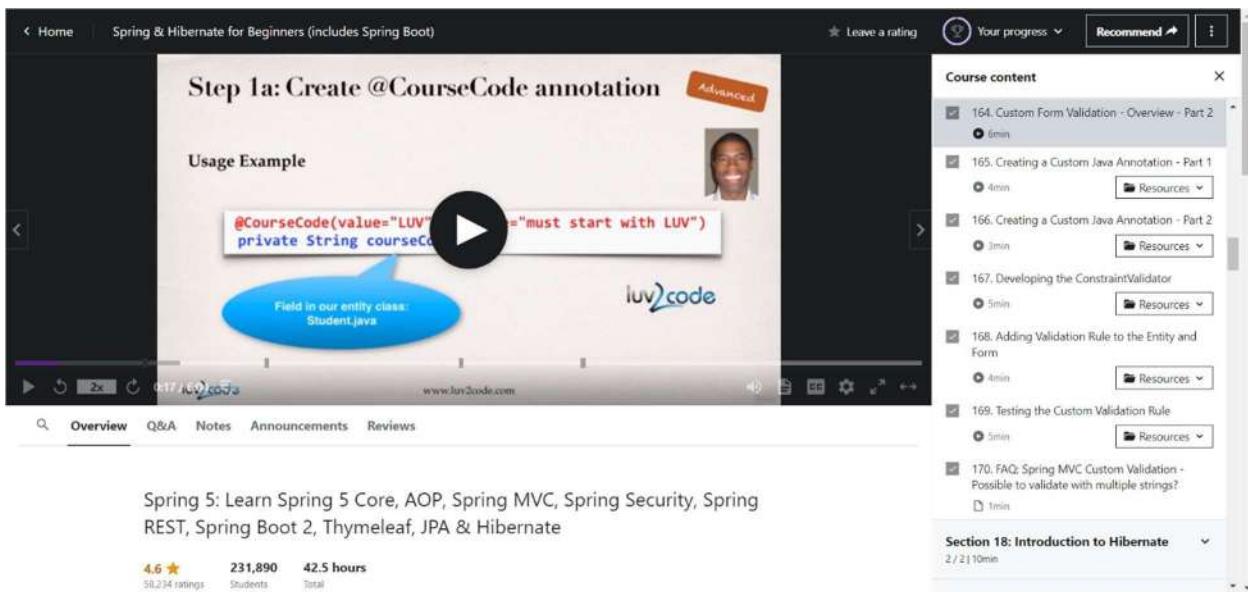
58,234 ratings

Course content

- 164. Custom Form Validation - Overview - Part 2 6min
- 165. Creating a Custom Java Annotation - Part 1 4min Resources
- 166. Creating a Custom Java Annotation - Part 2 3min Resources
- 167. Developing the ConstraintValidator 5min Resources
- 168. Adding Validation Rule to the Entity and Form 4min Resources
- 169. Testing the Custom Validation Rule 5min Resources
- 170. FAQ: Spring MVC Custom Validation - Possible to validate with multiple strings? 1min Resources

Section 18: Introduction to Hibernate

2 / 2 | 10min



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## Step 1a: Create @CourseCode annotation

Advanced

Usage Example

The value the course code must start with

`@CourseCode(value="LUV") @Pattern(regexp="must start with LUV") private String courseCode;`

Error message if validation fails

Field in our entity class: Student.java

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0:17 10:20:05

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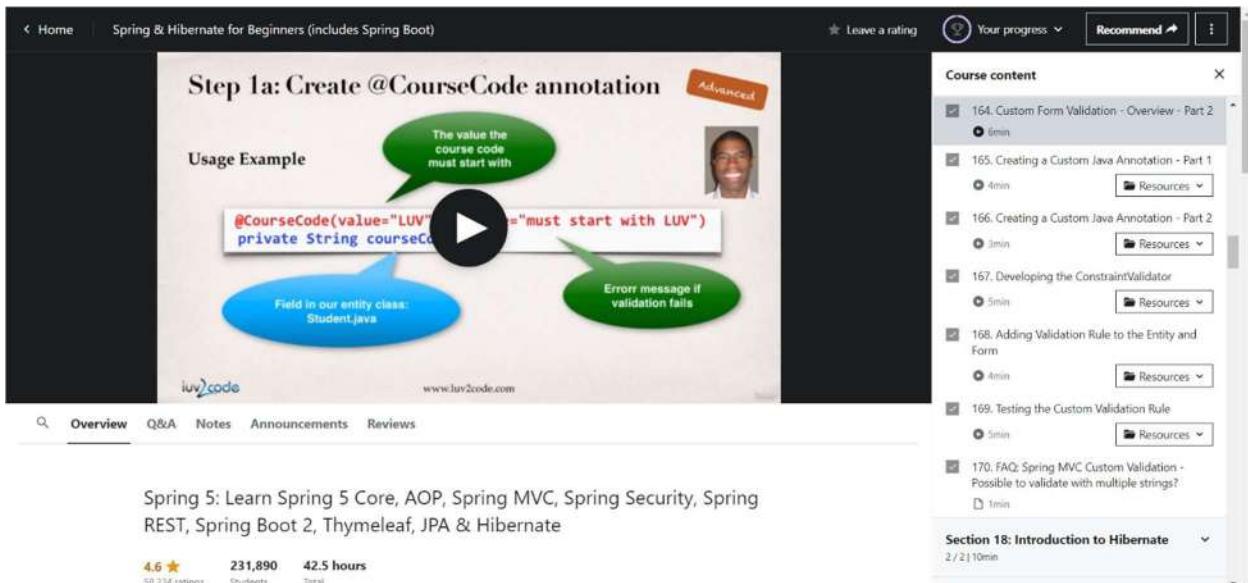
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Course content

- 164. Custom Form Validation - Overview - Part 2 6min
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- 170. FAQ: Spring MVC Custom Validation - Possible to validate with multiple strings? 1min Resources

Section 18: Introduction to Hibernate

2 / 2 | 10min



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### Step 1a: Create @CourseCode annotation

Advanced

```
@Constraint(validatedBy = CourseCodeConstraintValidator.class)
@Target( { ElementType.METHOD, ElementType.FIELD } )
@Retention(RetentionPolicy.RUNTIME)
public @interface CourseCode {
```

Note the "@interface" syntax

```
}
```

```
@CourseCode(value="LUV", message="must start with LUV")
private String courseCode;
```

luv2code www.luv2code.com

Course content

- 164. Custom Form Validation - Overview - Part 2
- 165. Creating a Custom Java Annotation - Part 1
- 166. Creating a Custom Java Annotation - Part 2
- 167. Developing the ConstraintValidator
- 168. Adding Validation Rule to the Entity and Form
- 169. Testing the Custom Validation Rule
- 170. FAQ: Spring MVC Custom Validation - Possible to validate with multiple strings?

Section 18: Introduction to Hibernate

2 / 2 | 10min

Overview Q&A Notes Announcements Reviews

Spring 5: Learn Spring 5 Core, AOP, Spring MVC, Spring Security, Spring REST, Spring Boot 2, Thymeleaf, JPA & Hibernate

4.6 ★ 231,890 Students Total

[Home](#) Spring & Hibernate for Beginners (includes Spring Boot)

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### Step 1a: Create @CourseCode annotation

Advanced

```
@Constraint(validatedBy = CourseCodeConstraintValidator.class)
@Target( { ElementType.METHOD, ElementType.FIELD } )
@Retention(RetentionPolicy.RUNTIME)
public @interface CourseCode {
```

Helper class that contains  
constraint logic / validation logic

```
}
```

```
@CourseCode(value="LUV", message="must start with LUV")
private String courseCode;
```

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Course content

- 164. Custom Form Validation - Overview - Part 2
- 165. Creating a Custom Java Annotation - Part 1
- 166. Creating a Custom Java Annotation - Part 2
- 167. Developing the ConstraintValidator
- 168. Adding Validation Rule to the Entity and Form
- 169. Testing the Custom Validation Rule
- 170. FAQ: Spring MVC Custom Validation - Possible to validate with multiple strings?

Section 18: Introduction to Hibernate

2 / 2 | 10min

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Spring 5: Learn Spring 5 Core, AOP, Spring MVC, Spring Security, Spring REST, Spring Boot 2, Thymeleaf, JPA & Hibernate

4.6 ★ 231,890 Students Total

[Home](#) Spring & Hibernate for Beginners (includes Spring Boot)

Your progress Recommend

### Step 1a: Create @CourseCode annotation

```
@Constraint(validatedBy = CourseCodeConstraintValidator.class)
@Target( { ElementType.METHOD, ElementType.FIELD } )
@Retention(RetentionPolicy.RUNTIME)
public @interface CourseCode {
```

Can apply our annotation to a method or field

```
}
```

**@CourseCode(value="LUV", message="must start with LUV")**

```
private String courseCode;
```

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Overview Q&A Notes Announcements Reviews

Course content

- 164. Custom Form Validation - Overview - Part 2 Resources
- 165. Creating a Custom Java Annotation - Part 1 Resources
- 166. Creating a Custom Java Annotation - Part 2 Resources
- 167. Developing the ConstraintValidator Resources
- 168. Adding Validation Rule to the Entity and Form Resources
- 169. Testing the Custom Validation Rule Resources
- 170. FAQ: Spring MVC Custom Validation - Possible to validate with multiple strings? Resources

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4.6 ★ 231,890 Students 42.5 hours

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### Step 1a: Create @CourseCode annotation

```
@Constraint(validatedBy = CourseCodeConstraintValidator.class)
@Target( { ElementType.METHOD, ElementType.FIELD } )
@Retention(RetentionPolicy.RUNTIME)
public @interface CourseCode {
```

Retain this annotation in the Java class file. Process it at runtime

```
}
```

**@CourseCode(value="LUV", message="must start with LUV")**

```
private String courseCode;
```

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Overview Q&A Notes Announcements Reviews

Course content

- 164. Custom Form Validation - Overview - Part 2 Resources
- 165. Creating a Custom Java Annotation - Part 1 Resources
- 166. Creating a Custom Java Annotation - Part 2 Resources
- 167. Developing the ConstraintValidator Resources
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- 169. Testing the Custom Validation Rule Resources
- 170. FAQ: Spring MVC Custom Validation - Possible to validate with multiple strings? Resources

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## Step 1a: Create @CourseCode annotation

Advanced

```
@Constraint(validatedBy = CourseCodeConstraintValidator.class)
@Target( { ElementType.METHOD, ElementType.FIELD } )
@Retention(RetentionPolicy.RUNTIME)
public @interface CourseCode {
```

Parameters / attributes

```
}
```

`@CourseCode(value="LUV", message="must start with LUV")
private String courseCode;`

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Overview Q&A Notes Announcements Reviews

Course content

- 164. Custom Form Validation - Overview - Part 2 6min
- 165. Creating a Custom Java Annotation - Part 1 4min Resources
- 166. Creating a Custom Java Annotation - Part 2 3min Resources
- 167. Developing the ConstraintValidator 5min Resources
- 168. Adding Validation Rule to the Entity and Form 4min Resources
- 169. Testing the Custom Validation Rule 5min Resources
- 170. FAQ: Spring MVC Custom Validation - Possible to validate with multiple strings? 1min

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Your progress Recommend

## Step 1a: Create @CourseCode annotation

Advanced

```
@Constraint(validatedBy = CourseCodeConstraintValidator.class)
@Target( { ElementType.METHOD, ElementType.FIELD } )
@Retention(RetentionPolicy.RUNTIME)
public @interface CourseCode {
```

Default value

```
// define default course code
public String value() default "LUV";
```

```
}
```

`@CourseCode(value="LUV", message="must start with LUV")
private String courseCode;`

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Overview Q&A Notes Announcements Reviews

Course content

- 164. Custom Form Validation - Overview - Part 2 6min
- 165. Creating a Custom Java Annotation - Part 1 4min Resources
- 166. Creating a Custom Java Annotation - Part 2 3min Resources
- 167. Developing the ConstraintValidator 5min Resources
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- 169. Testing the Custom Validation Rule 5min Resources
- 170. FAQ: Spring MVC Custom Validation - Possible to validate with multiple strings? 1min

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### Step 1a: Create @CourseCode annotation

Advanced

```
@Constraint(validatedBy = CourseCodeConstraintValidator.class)
@Target( { ElementType.METHOD, ElementType.FIELD } )
@Retention(RetentionPolicy.RUNTIME)
public @interface CourseCode {
    // define default course code
    public String value() default "LUV";
    // define default error message
    public String message() default "must start with LUV";
    ...
}
@CourseCode(value="LUV", message="must start with LUV")
private String courseCode;
```

Default value

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Overview Q&A Notes Announcements Reviews

Course content

- 164. Custom Form Validation - Overview - Part 2 6min
- 165. Creating a Custom Java Annotation - Part 1 4min Resources
- 166. Creating a Custom Java Annotation - Part 2 3min Resources
- 167. Developing the ConstraintValidator 5min Resources
- 168. Adding Validation Rule to the Entity and Form 4min Resources
- 169. Testing the Custom Validation Rule 5min Resources
- 170. FAQ: Spring MVC Custom Validation - Possible to validate with multiple strings? 1min Resources

Section 18: Introduction to Hibernate 2 / 2 | 10min

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### Step 1b: Create CourseCodeConstraintValidator

Advanced

```
import java.validation.ConstraintValidator;
import java.validation.ConstraintValidatorContext;
public class CourseCodeConstraintValidator implements ConstraintValidator<CourseCode, String> {
    private String coursePrefix;
    @Override
    public void initialize(CourseCode theCourseCode) {
        coursePrefix = theCourseCode.value();
    }
    @Override
    public boolean isValid(String theCode, ConstraintValidatorContext context) {
        boolean result;
        if (theCode == null) {
            result = true;
        } else {
            result = theCode.startsWith(coursePrefix);
        }
        return result;
    }
}
```

Helper class  
Contains business rules for validation

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Overview Q&A Notes Announcements Reviews

Course content

- 164. Custom Form Validation - Overview - Part 2 6min
- 165. Creating a Custom Java Annotation - Part 1 4min Resources
- 166. Creating a Custom Java Annotation - Part 2 3min Resources
- 167. Developing the ConstraintValidator 5min Resources
- 168. Adding Validation Rule to the Entity and Form 4min Resources
- 169. Testing the Custom Validation Rule 5min Resources
- 170. FAQ: Spring MVC Custom Validation - Possible to validate with multiple strings? 1min Resources

Section 18: Introduction to Hibernate 2 / 2 | 10min

Spring 5: Learn Spring 5 Core, AOP, Spring MVC, Spring Security, Spring REST, Spring Boot 2, Thymeleaf, JPA & Hibernate

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```
import javax.validation.ConstraintValidator;
import javax.validation.ConstraintValidatorContext;

public class CourseCodeConstraintValidator
    implements ConstraintValidator<CourseCode, String> {

    private String coursePrefix;

    @Override
    public void initialize(CourseCode constraintAnnotation) {
        coursePrefix = constraintAnnotation.value();
    }

    @Override
    public boolean isValid(String theCode,
                          ConstraintValidatorContext context) {
        boolean result;

        if (theCode != null) {
            result = theCode.startsWith(coursePrefix);
        } else {
            result = true;
        }

        return result;
    }
}
```

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## Spring 5: Learn Spring 5 Core, AOP, Spring MVC, Spring Security, Spring REST, Spring Boot 2, Thymeleaf, JPA & Hibernate

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- Course content
- 164. Custom Form Validation - Overview - Part 2 6min
  - 165. Creating a Custom Java Annotation - Part 1 4min Resources
  - 166. Creating a Custom Java Annotation - Part 2 3min Resources
  - 167. Developing the ConstraintValidator 5min Resources
  - 168. Adding Validation Rule to the Entity and Form 4min Resources
  - 169. Testing the Custom Validation Rule 5min Resources
  - 170. FAQ: Spring MVC Custom Validation - Possible to validate with multiple strings? 1min

### Section 18: Introduction to Hibernate

2 / 2 | 10min

```
import javax.validation.ConstraintValidator;
import javax.validation.ConstraintValidatorContext;

public class CourseCodeConstraintValidator
    implements ConstraintValidator<CourseCode, String> {

    private String coursePrefix;

    @Override
    public void initialize(CourseCode constraintAnnotation) {
        coursePrefix = constraintAnnotation.value();
    }

    @Override
    public boolean isValid(String theCode,
                          ConstraintValidatorContext context) {
        boolean result;

        if (theCode != null) {
            result = theCode.startsWith(coursePrefix);
        } else {
            result = true;
        }

        return result;
    }
}
```

Overview Q&A Notes Announcements Reviews

## Spring 5: Learn Spring 5 Core, AOP, Spring MVC, Spring Security, Spring REST, Spring Boot 2, Thymeleaf, JPA & Hibernate

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- Course content
- 164. Custom Form Validation - Overview - Part 2 6min
  - 165. Creating a Custom Java Annotation - Part 1 4min Resources
  - 166. Creating a Custom Java Annotation - Part 2 3min Resources
  - 167. Developing the ConstraintValidator 5min Resources
  - 168. Adding Validation Rule to the Entity and Form 4min Resources
  - 169. Testing the Custom Validation Rule 5min Resources
  - 170. FAQ: Spring MVC Custom Validation - Possible to validate with multiple strings? 1min

### Section 18: Introduction to Hibernate

2 / 2 | 10min

The screenshot shows a course page for "Spring & Hibernate for Beginners (includes Spring Boot)". On the left, there's a code editor window displaying Java code for a constraint validator. A yellow highlight covers the first few lines, and a red arrow points to a specific line of code: `@Override public boolean isValid(String theCode, ConstraintValidatorContext theConstraintValidatorContext) {`. The code is part of a class named `CourseCodeConstraintValidator`. The right side of the screen shows a sidebar titled "Course content" with a list of video lessons numbered 164 through 170.

```
import javax.validation.ConstraintValidator;
import javax.validation.ConstraintValidatorContext;

public class CourseCodeConstraintValidator implements ConstraintValidator<CourseCode, String> {
    private String coursePrefix;

    @Override
    public void initialize(CourseCode theCourseCode) {
        coursePrefix = theCourseCode.value();
    }

    @Override
    public boolean isValid(String theCode, ConstraintValidatorContext theConstraintValidatorContext) {
        boolean result;
        if (theCode != null) {
            result = theCode.startsWith(coursePrefix);
        } else {
            result = true;
        }
        return result;
    }
}
```

Spring 5: Learn Spring 5 Core, AOP, Spring MVC, Spring Security, Spring REST, Spring Boot 2, Thymeleaf, JPA & Hibernate

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This screenshot is similar to the one above, showing the same course page for "Spring & Hibernate for Beginners (includes Spring Boot)". The code editor window now has a large black play button overlaid on it. Below the play button, a blue bar displays the text "Spring MVC will call: isValid(...)" and the URL "www.tuv2code.com". The sidebar on the right remains the same, listing the course content lessons.

```
private String coursePrefix;

@Override
public void initialize(CourseCode theCourseCode) {
    coursePrefix = theCourseCode.value();
}

@Override
public boolean isValid(String theCode, ConstraintValidatorContext theConstraintValidatorContext) {
    boolean result;
    if (theCode != null) {
        result = theCode.startsWith(coursePrefix);
    } else {
        result = true;
    }
}
```

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Course content

- 164. Custom Form Validation - Overview - Part 2
- 165. Creating a Custom Java Annotation - Part 1
- 166. Creating a Custom Java Annotation - Part 2
- 167. Developing the ConstraintValidator
- 168. Adding Validation Rule to the Entity and Form
- 169. Testing the Custom Validation Rule
- 170. FAQ: Spring MVC Custom Validation - Possible to validate with multiple strings?

Section 18: Introduction to Hibernate

2 / 2 | 10min

private String coursePref;

```
@Override
public void initialize(SourceContext theSourceContext) {
    coursePref = theSourceContext.value();
}
```

```
@Override
public boolean isValid(String theCode,
                      ConstraintValidatorContext theConstraintValidatorContext) {
    boolean result;
    if (theCode != null) {
        result = theCode.startsWith(coursePref);
    } else {
        result = true;
    }
    return result;
}
```

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58,234 ratings

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Course content

- 164. Custom Form Validation - Overview - Part 2
- 165. Creating a Custom Java Annotation - Part 1
- 166. Creating a Custom Java Annotation - Part 2
- 167. Developing the ConstraintValidator
- 168. Adding Validation Rule to the Entity and Form
- 169. Testing the Custom Validation Rule
- 170. FAQ: Spring MVC Custom Validation - Possible to validate with multiple strings?

Section 18: Introduction to Hibernate

2 / 2 | 10min

private String coursePref;

```
@Override
public void initialize(SourceContext theSourceContext) {
    coursePref = theSourceContext.value();
}
```

```
@Override
public boolean isValid(String theCode,
                      ConstraintValidatorContext theConstraintValidatorContext) {
    boolean result;
    if (theCode != null) {
        result = theCode.startsWith(coursePref);
    } else {
        result = true;
    }
    return result;
}
```

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4.6 ★ 231,890 Students 42.5 hours

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Course content

- 164. Custom Form Validation - Overview - Part 2 (6min)
- 165. Creating a Custom Java Annotation - Part 1 (4min) [Resources](#)
- 166. Creating a Custom Java Annotation - Part 2 (3min) [Resources](#)
- 167. Developing the ConstraintValidator (5min) [Resources](#)
- 168. Adding Validation Rule to the Entity and Form (4min) [Resources](#)
- 169. Testing the Custom Validation Rule (5min) [Resources](#)
- 170. FAQ: Spring MVC Custom Validation - Possible to validate with multiple strings? (1min)

Section 18: Introduction to Hibernate

2 / 2 | 10min

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## Coding

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Course content

- 165. Creating a Custom Java Annotation - Part 1 (4min) [Resources](#)
- 166. Creating a Custom Java Annotation - Part 2 (3min) [Resources](#)
- 167. Developing the ConstraintValidator (5min) [Resources](#)
- 168. Adding Validation Rule to the Entity and Form (4min) [Resources](#)
- 169. Testing the Custom Validation Rule (5min) [Resources](#)
- 170. FAQ: Spring MVC Custom Validation - Possible to validate with multiple strings? (1min)

Section 18: Introduction to Hibernate

2 / 2 | 10min

Section 19: Setting Up Hibernate Development Environment

7 / 7 | 29min

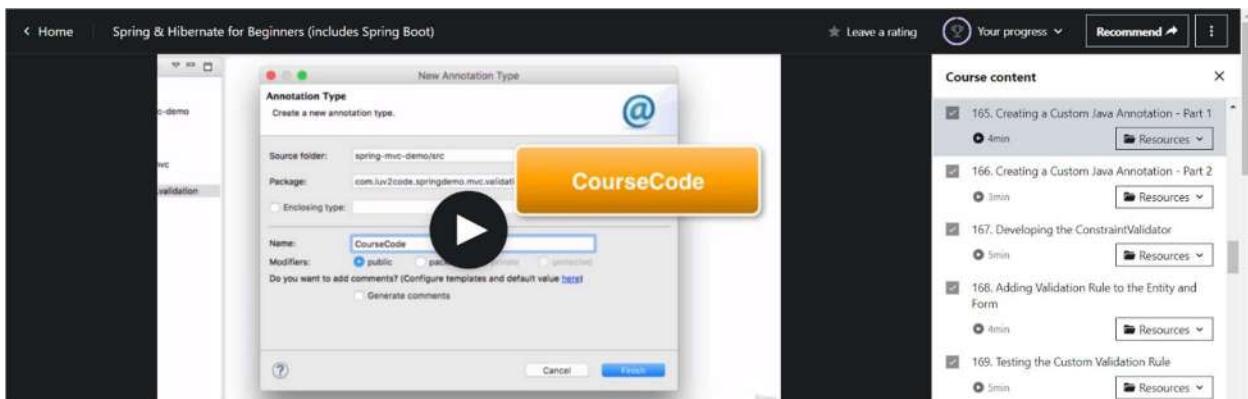
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Overview Q&A Notes Announcements Reviews

Name same as annotation



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#### Course content

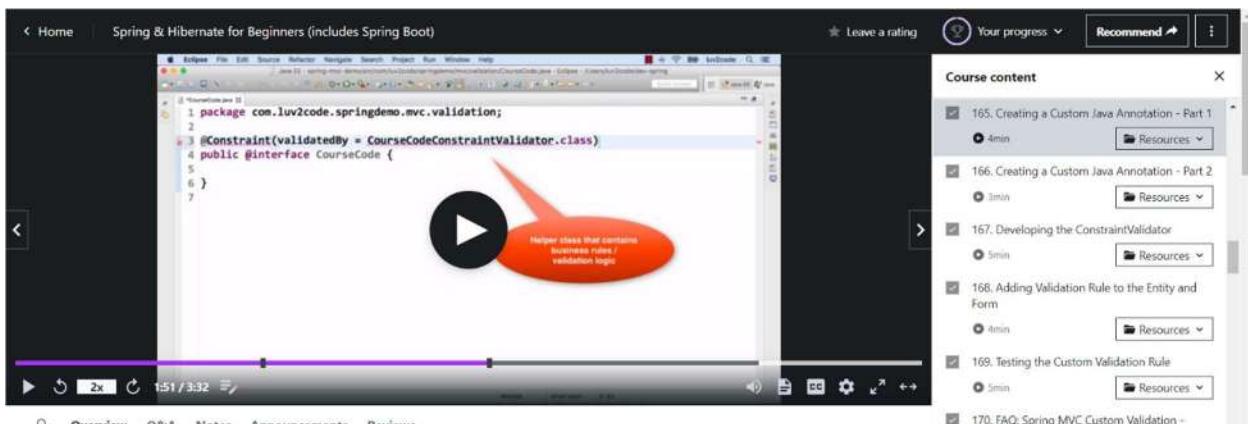
- 165. Creating a Custom Java Annotation - Part 1
- 166. Creating a Custom Java Annotation - Part 2
- 167. Developing the ConstraintValidator
- 168. Adding Validation Rule to the Entity and Form
- 169. Testing the Custom Validation Rule
- 170. FAQ: Spring MVC Custom Validation - Possible to validate with multiple strings?

#### Section 18: Introduction to Hibernate

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#### Section 19: Setting Up Hibernate Development Environment

7 / 7 | 29min



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#### Course content

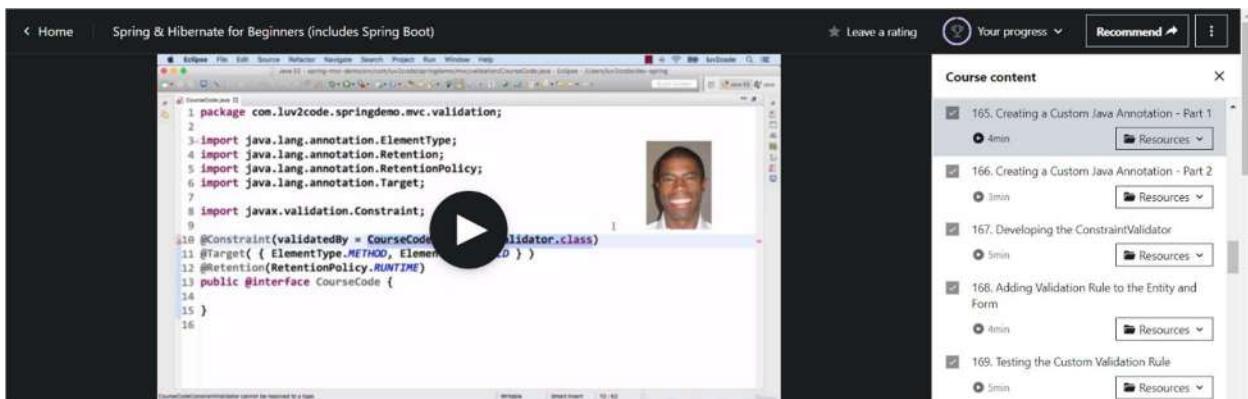
- 165. Creating a Custom Java Annotation - Part 1
- 166. Creating a Custom Java Annotation - Part 2
- 167. Developing the ConstraintValidator
- 168. Adding Validation Rule to the Entity and Form
- 169. Testing the Custom Validation Rule
- 170. FAQ: Spring MVC Custom Validation - Possible to validate with multiple strings?

#### Section 18: Introduction to Hibernate

2 / 2 | 10min

#### Section 19: Setting Up Hibernate Development Environment

7 / 7 | 29min



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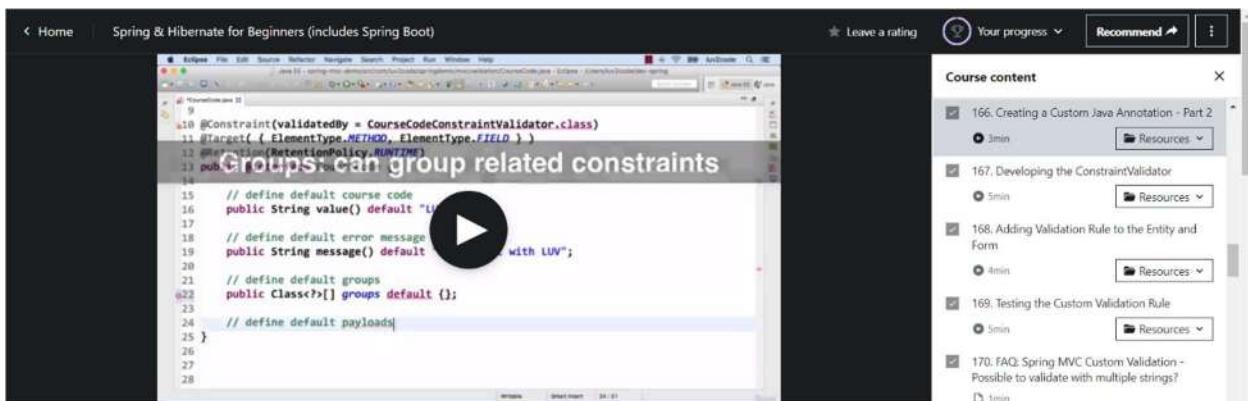
Course content

- 165. Creating a Custom Java Annotation - Part 1
- 166. Creating a Custom Java Annotation - Part 2
- 167. Developing the ConstraintValidator
- 168. Adding Validation Rule to the Entity and Form
- 169. Testing the Custom Validation Rule
- 170. FAQ: Spring MVC Custom Validation - Possible to validate with multiple strings?

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Course content

- 166. Creating a Custom Java Annotation - Part 2
- 167. Developing the ConstraintValidator
- 168. Adding Validation Rule to the Entity and Form
- 169. Testing the Custom Validation Rule
- 170. FAQ: Spring MVC Custom Validation - Possible to validate with multiple strings?

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Section 18: Introduction to Hibernate

2 / 2 | 10min

Section 19: Setting Up Hibernate Development Environment

7 / 7 | 29min

Section 18: Introduction to Hibernate

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Section 19: Setting Up Hibernate Development Environment

7 / 7 | 29min

Section 20: Hibernate Configuration with Annotations

A screenshot of a video player interface. The video frame shows a code editor with Java code. A play button is overlaid on the video frame. The code is as follows:

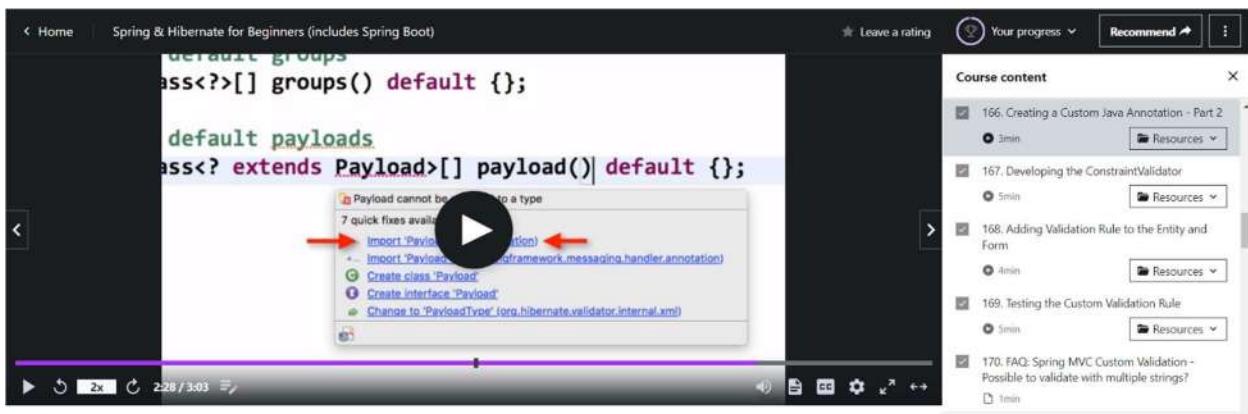
```
9 @Constraint(validatedBy = CourseCodeConstraintValidator.class)
10 @Target({ ElementType.METHOD, ElementType.FIELD })
11
12     Payloads: provide custom details about validation failure
13     (severity level, error code etc)
14
15     // define default course code
16     public String value() default "LUV";
17
18     // define default error message
19     public String message() default "Course code must be LUV";
20
21     // define default groups
22     public Class<?>[] groups() default {};
23
24     // define default payloads
25     public Class<? extends Payload>[] payload() default {};
26 }
```

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- Course content
- 166. Creating a Custom Java Annotation - Part 2 3min Resources
  - 167. Developing the ConstraintValidator 5min Resources
  - 168. Adding Validation Rule to the Entity and Form 4min Resources
  - 169. Testing the Custom Validation Rule 5min Resources
  - 170. FAQ: Spring MVC Custom Validation - Possible to validate with multiple strings? 1min
- Section 18: Introduction to Hibernate 2 / 2 | 10min
- Section 19: Setting Up Hibernate Development Environment 7 / 7 | 29min
- Section 20: Hibernate Configuration with Annotations



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- Course content
- 166. Creating a Custom Java Annotation - Part 2 3min Resources
  - 167. Developing the ConstraintValidator 5min Resources
  - 168. Adding Validation Rule to the Entity and Form 4min Resources
  - 169. Testing the Custom Validation Rule 5min Resources
  - 170. FAQ: Spring MVC Custom Validation - Possible to validate with multiple strings? 1min
- Section 18: Introduction to Hibernate 2 / 2 | 10min
- Section 19: Setting Up Hibernate Development Environment 7 / 7 | 29min
- Section 20: Hibernate Configuration with Annotations



A screenshot of a video player interface. The main area shows a Java code editor with the following code:

```
11. @Constraint(validatedBy = CourseCodeConstraintValidator.class)
12. @Target( { ElementType.METHOD, ElementType.FIELD } )
13. @Retention(RetentionPolicy.RUNTIME)
14. public @interface CourseCode {
15.
16.     // define default course code
17.     public String value() default "LUV";
18.
19.     // define default error message
20.     public String message() default "Course code must be LUV";
21.
22.     // define default groups
23.     public Class<?>[] groups() default {};
24.
25.     // define default payloads
26.     public Class<? extends Payload>[] payload() default {};
27. }
```

The video player has a play button in the center. To the right is a sidebar titled "Course content" with a list of 10 video lessons:

- 166. Creating a Custom Java Annotation - Part 2 (3min)
- 167. Developing the ConstraintValidator (5min)
- 168. Adding Validation Rule to the Entity and Form (4min)
- 169. Testing the Custom Validation Rule (5min)
- 170. FAQ: Spring MVC Custom Validation - Possible to validate with multiple strings? (1min)

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A screenshot of a video player interface. The main area shows a Java code editor with the following code:

```
1. package com.bignerdranch.android.springdemo.mvc.validation;
2.
3. import javax.validation.ConstraintValidator;
4. import javax.validation.ConstraintValidatorContext;
5.
6. public class CourseCodeConstraintValidator implements ConstraintValidator<CourseCode, String> {
```

The video player has a play button in the center. To the right is a sidebar titled "Course content" with a list of 10 video lessons:

- 167. Developing the ConstraintValidator (5min)
- 168. Adding Validation Rule to the Entity and Form (4min)
- 169. Testing the Custom Validation Rule (5min)
- 170. FAQ: Spring MVC Custom Validation - Possible to validate with multiple strings? (1min)

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Section 18: Introduction to Hibernate

2 / 2 | 10min

Section 19: Setting Up Hibernate Development Environment

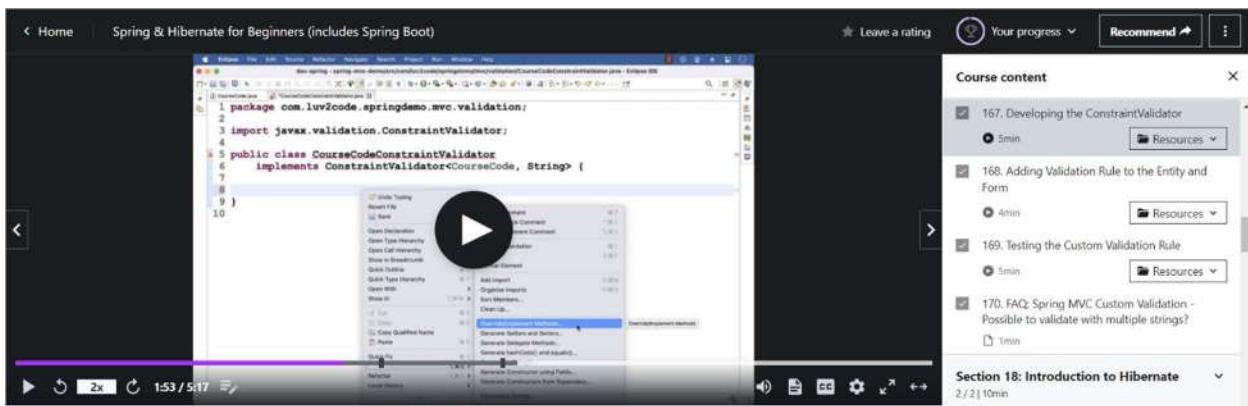
7 / 7 | 29min

Section 20: Hibernate Configuration with Annotations

8 / 8 | 22min

Section 21: Hibernate CRUD Features

8 / 8 | 22min



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#### Course content

- 167. Developing the ConstraintValidator 5min Resources
- 168. Adding Validation Rule to the Entity and Form 4min Resources
- 169. Testing the Custom Validation Rule 5min Resources
- 170. FAQ: Spring MVC Custom Validation - Possible to validate with multiple strings? 1min

#### Section 18: Introduction to Hibernate

2 / 2 | 10min

#### Section 19: Setting Up Hibernate Development Environment

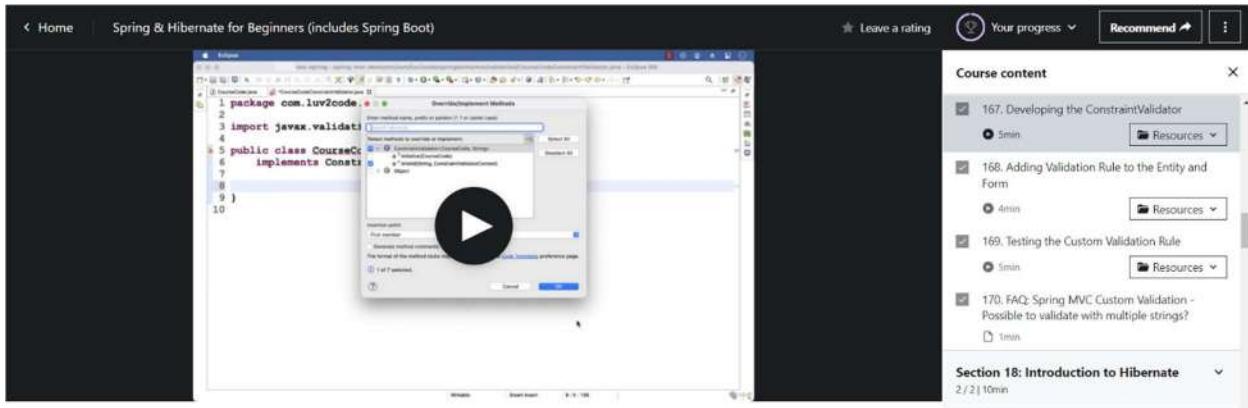
7 / 7 | 29min

#### Section 20: Hibernate Configuration with Annotations

8 / 8 | 22min

#### Section 21: Hibernate CRUD Features:

8 / 8 | 22min



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#### Course content

- 167. Developing the ConstraintValidator 5min Resources
- 168. Adding Validation Rule to the Entity and Form 4min Resources
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- 170. FAQ: Spring MVC Custom Validation - Possible to validate with multiple strings? 1min

#### Section 18: Introduction to Hibernate

2 / 2 | 10min

#### Section 19: Setting Up Hibernate Development Environment

7 / 7 | 29min

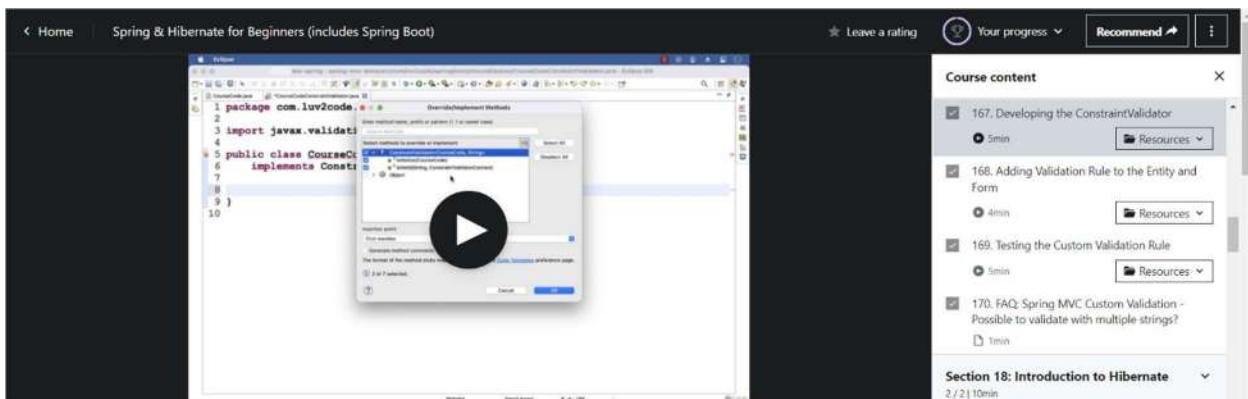
#### Section 20: Hibernate Configuration with Annotations

8 / 8 | 22min

#### Section 21: Hibernate CRUD Features:

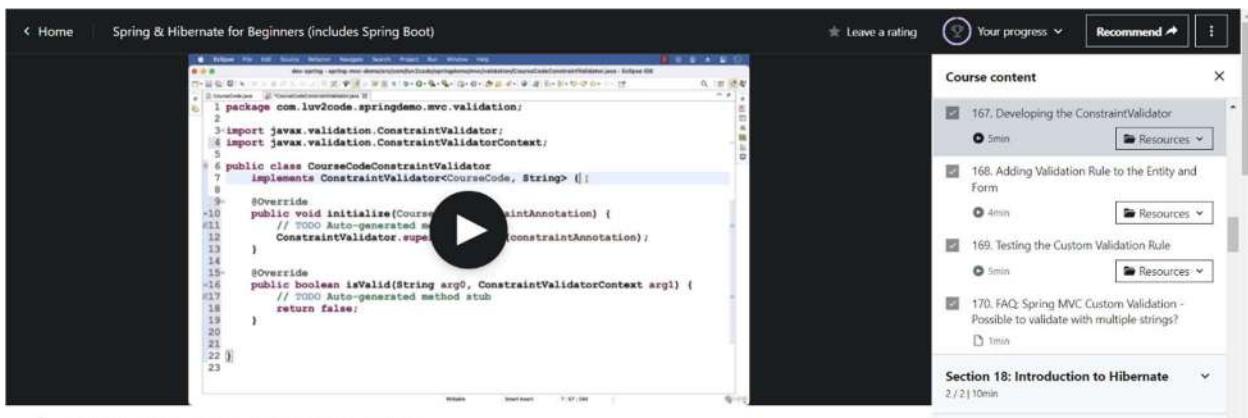
8 / 8 | 22min

Select the unselected one also .Only then that method will be overridden



Spring 5: Learn Spring 5 Core, AOP, Spring MVC, Spring Security, Spring REST, Spring Boot 2, Thymeleaf, JPA & Hibernate

4.6 ★ 231,890 Students Total



Spring 5: Learn Spring 5 Core, AOP, Spring MVC, Spring Security, Spring REST, Spring Boot 2, Thymeleaf, JPA & Hibernate

4.6 ★ 231,890 Students Total

[Leave a rating](#) [Your progress](#) [Recommend](#)

### Assign the value passed in from our annotation

```
1 import javax.validation.ConstraintValidator;
2 import javax.validation.ConstraintValidatorContext;
3
4 public class CourseCodeConstraintValidator
5     implements ConstraintValidator<CourseCode, String> {
6
7     private String coursePrefix;
8
9     @Override
10    public void initialize(CourseCode theCourseCode) {
11        coursePrefix = theCourseCode.value();
12    }
13
14    @Override
15    public boolean isValid(
16        // TODO Auto-generated method stub
17        String s, ConstraintValidatorContext arg1) {
18        // TODO Auto-generated method stub
19        return false;
20    }
21
22 }
23
24 }
```

**Annotations:**

```
@CourseCode(value="LUV", message="must start with LUV")
```

**Course content:**

- 167. Developing the ConstraintValidator
- 168. Adding Validation Rule to the Entity and Form
- 169. Testing the Custom Validation Rule
- 170. FAQ: Spring MVC Custom Validation - Possible to validate with multiple strings?

Overview Q&A Notes Announcements Reviews

Spring 5: Learn Spring 5 Core, AOP, Spring MVC, Spring Security, Spring REST, Spring Boot 2, Thymeleaf, JPA & Hibernate

4.6 ★ 231,890 Students Total

[Leave a rating](#) [Your progress](#) [Recommend](#)

### Spring MVC will call: isValid(...)

```
1 import javax.validation.ConstraintValidator;
2 import javax.validation.ConstraintValidatorContext;
3
4 public class CourseCodeConstraintValidator
5     implements ConstraintValidator<CourseCode, String> {
6
7     private String coursePrefix;
8
9     @Override
10    public void initialize(CourseCode theCourseCode) {
11        coursePrefix = theCourseCode.value();
12    }
13
14    @Override
15    public boolean isValid(
16        // TODO Auto-generated method stub
17        String s, ConstraintValidatorContext arg1) {
18        // TODO Auto-generated method stub
19        return false;
20    }
21
22 }
23
24 }
```

**Course content:**

- 167. Developing the ConstraintValidator
- 168. Adding Validation Rule to the Entity and Form
- 169. Testing the Custom Validation Rule
- 170. FAQ: Spring MVC Custom Validation - Possible to validate with multiple strings?

Overview Q&A Notes Announcements Reviews

Spring 5: Learn Spring 5 Core, AOP, Spring MVC, Spring Security, Spring REST, Spring Boot 2, Thymeleaf, JPA & Hibernate

4.6 ★ 231,890 Students Total

```
private String coursePrefix;
@Override
public void initialize(CourseCode theCourseCode) {
    coursePrefix = theCourseCode.value();
}
@Override
public boolean isValid(String theCode, ConstraintValidatorContext arg1) {
    // TODO Auto-generated method stub
    return false;
}
```

Overview Q&A Notes Announcements Reviews

Spring 5: Learn Spring 5 Core, AOP, Spring MVC, Spring Security, Spring REST, Spring Boot 2, Thymeleaf, JPA & Hibernate

4.6 ★ 231,890 Students Total

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- Section 19: Setting Up Hibernate Development Environment 7/7 | 29min
- Section 20: Hibernate Configuration with Annotations 8/8 | 22min
- Section 21: Hibernate CRUD Features: ...

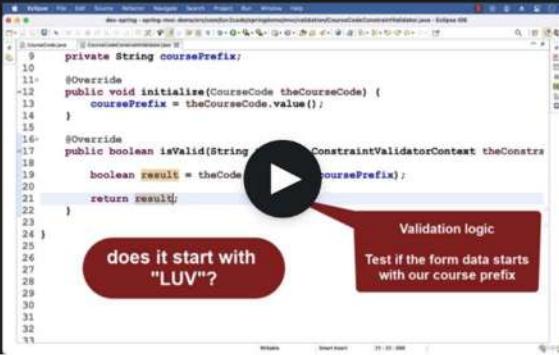
```
private String coursePrefix;
@Override
public void initialize(CourseCode theCourseCode) {
    coursePrefix = theCourseCode.value();
}
@Override
public boolean isValid(String theCode, ConstraintValidatorContext arg1) {
    // TODO Auto-generated method stub
    return false;
}
```

Overview Q&A Notes Announcements Reviews

Spring 5: Learn Spring 5 Core, AOP, Spring MVC, Spring Security, Spring REST, Spring Boot 2, Thymeleaf, JPA & Hibernate

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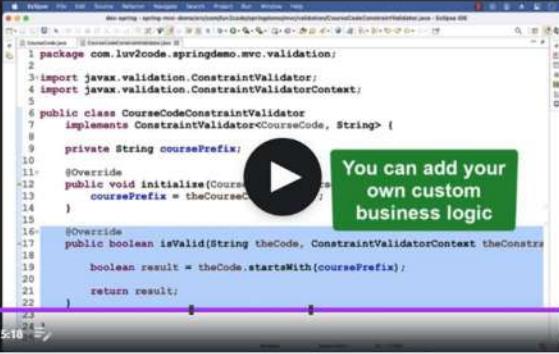
```
9     private String coursePrefix;
10    ...
11    @Override
12    public void initialize(CourseCode theCourseCode) {
13        coursePrefix = theCourseCode.value();
14    }
15
16    ...
17    public boolean isValid(String theCode, ConstraintValidatorContext theConstraintValidatorContext) {
18        boolean result = theCode.startsWith(coursePrefix);
19
20        return result;
21    }
22
23
24 }
```

Overview Q&A Notes Announcements Reviews

Spring 5: Learn Spring 5 Core, AOP, Spring MVC, Spring Security, Spring REST, Spring Boot 2, Thymeleaf, JPA & Hibernate

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- Section 20: Hibernate Configuration with Annotations 8/8 | 22min
- Section 21: Hibernate CRUD Features: ...



```
6 package com.luv2code.springdemo.mvc.validation;
7
8 import javax.validation.ConstraintValidator;
9 import javax.validation.ConstraintValidatorContext;
10
11 public class CourseCodeConstraintValidator
12     implements ConstraintValidator<CourseCode, String> {
13
14     private String coursePrefix;
15
16     @Override
17     public void initialize(CourseCode constraintAnnotation) {
18         coursePrefix = constraintAnnotation.value();
19     }
20
21     @Override
22     public boolean isValid(String theCode, ConstraintValidatorContext theConstraintValidatorContext) {
23
24         boolean result = theCode.startsWith(coursePrefix);
25
26         return result;
27     }
28 }
```

Overview Q&A Notes Announcements Reviews

Spring 5: Learn Spring 5 Core, AOP, Spring MVC, Spring Security, Spring REST, Spring Boot 2, Thymeleaf, JPA & Hibernate

4.6 ★ 231,890 Students Total

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- Section 20: Hibernate Configuration with Annotations 8/8 | 22min
- Section 21: Hibernate CRUD Features: ...

The screenshot shows a video player interface. The main content area displays a Java code editor with the following code:

```
public class CourseCodeConstraintValidator implements ConstraintValidator<CourseCode, String> {
    private String coursePrefix;
    @Override
    public void initialize(CourseCode constraintAnnotation) {
        coursePrefix = constraintAnnotation.value();
    }
    boolean result = theCode.startsWith(coursePrefix);
    return result;
}
```

A large play button is overlaid on the code editor. Below the code editor, a dark overlay contains the text "Step 2: Add validation rule to Customer class". At the bottom of the video player, there is a progress bar showing "0:35 / 4:07".

Below the video player, there is a navigation bar with links: Overview, Q&A, Notes, Announcements, and Reviews.

To the right of the video player, there is a sidebar titled "Course content" which lists several sections:

- Section 18: Introduction to Hibernate (2 / 2 | 10min)
- Section 19: Setting Up Hibernate Development Environment (7 / 7 | 29min)
- Section 20: Hibernate Configuration with Annotations (8 / 8 | 22min)
- Section 21: Hibernate CRUD Features: Create, Read, Update and Delete (17 / 17 | 1hr 25min)

Spring & Hibernate for Beginners (includes Spring Boot)

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Course content

- 166. Adding Validation Rule to the Entity and Form 4min Resources
- 169. Testing the Custom Validation Rule 5min Resources
- 170. FAQ: Spring MVC Custom Validation - Possible to validate with multiple strings? 1min Resources

Section 18: Introduction to Hibernate 2 / 2 | 10min

Section 19: Setting Up Hibernate Development Environment 7 / 7 | 29min

Section 20: Hibernate Configuration with Annotations 8 / 8 | 22min

Section 21: Hibernate CRUD Features: Create, Read, Update and Delete 17 / 17 | 1hr 25min

Need to create a field for courseCode

Overview Q&A Notes Announcements Reviews

Spring 5: Learn Spring 5 Core, AOP, Spring MVC, Spring Security, Spring REST, Spring Boot 2, Thymeleaf, JPA & Hibernate

4.6 ★ 231,890 42.5 hours

A screenshot of a video player interface. The main area shows Java code in an Eclipse IDE window. A play button is overlaid on the code. The code defines a class with methods for course code and postal code, and annotations for validation rules. The right side of the screen displays a 'Course content' sidebar with several video thumbnails and their details.

```
1 package com.javainuse;
2
3 import javax.validation.constraints.*;
4
5 public class Customer {
6     private int freePasses;
7
8     @Pattern(regexp = "[a-zA-Z0-9]{5}", message = "must be less than or equal to 10")
9     private int freePasses;
10
11     @Pattern(regexp = "[a-zA-Z0-9]{5}", message = "only 5 chars/digits")
12     private String postalCode;
13
14     private String courseCode;
15
16     public String getCourseCode() {
17         return courseCode;
18     }
19
20     public void setCourseCode(String courseCode) {
21         this.courseCode = courseCode;
22     }
23
24     public String getPostalCode() {
25         return postalCode;
26     }
27 }
```

Overview Q&A Notes Announcements Reviews

Spring 5: Learn Spring 5 Core, AOP, Spring MVC, Spring Security, Spring REST, Spring Boot 2, Thymeleaf, JPA & Hibernate

4.6 ★ 231,890 Students Total

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  - 169. Testing the Custom Validation Rule 5min Resources
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- Section 20: Hibernate Configuration with Annotations 8 / 8 | 22min

- Section 21: Hibernate CRUD Features: Create, Read, Update and Delete 17 / 17 | 1hr 25min

A screenshot of a video player interface. The main area shows Java code in an Eclipse IDE window. A tooltip appears over a line of code, stating 'Both are the same since our annotation has support for defaults'. A red arrow points from the tooltip to the code. The right side of the screen displays a 'Course content' sidebar with several video thumbnails and their details.

```
1 package com.javainuse;
2
3 import javax.validation.constraints.*;
4
5 public class Customer {
6     private int freePasses;
7
8     @Pattern(regexp = "[a-zA-Z0-9]{5}", message = "must start with UNV")
9     private String courseCode;
10
11     @CourseCode
12     private String courseCode;
13
14     public String getCourseCode() {
15         return courseCode;
16     }
17
18     public void setCourseCode(String courseCode) {
19         this.courseCode = courseCode;
20     }
21
22     public String getPostalCode() {
23         return postalCode;
24     }
25 }
```

Overview Q&A Notes Announcements Reviews

Spring 5: Learn Spring 5 Core, AOP, Spring MVC, Spring Security, Spring REST, Spring Boot 2, Thymeleaf, JPA & Hibernate

4.6 ★ 231,890 Students Total

- Section 18: Introduction to Hibernate 2 / 2 | 10min

- Section 19: Setting Up Hibernate Development Environment 7 / 7 | 29min

- Section 20: Hibernate Configuration with Annotations 8 / 8 | 22min

- Section 21: Hibernate CRUD Features: Create, Read, Update and Delete 17 / 17 | 1hr 25min

Spring & Hibernate for Beginners (includes Spring Boot)

Step 3: Display error messages on HTML form

```
29 public String getCourseCode() {  
30     return courseCode;  
31 }  
32  
33 public void setCourseCode(String courseCode) {  
34     this.courseCode = courseCode;  
35 }  
36  
37 public String getPostalCode() {  
38     return postalCode;  
39 }  
40  
41 public void setPostalCode(String postalCode) {  
42     this.postalCode = postalCode;  
43 }  
44  
45 }
```

Course content

- 168. Adding Validation Rule to the Entity and Form
- 169. Testing the Custom Validation Rule
- 170. FAQ: Spring MVC Custom Validation - Possible to validate with multiple strings?

Section 18: Introduction to Hibernate

Section 19: Setting Up Hibernate Development Environment

Section 20: Hibernate Configuration with Annotations

Section 21: Hibernate CRUD Features: Create, Read, Update and Delete

Overview Q&A Notes Announcements Reviews

Spring 5: Learn Spring 5 Core, AOP, Spring MVC, Spring Security, Spring REST, Spring Boot 2, Thymeleaf, JPA & Hibernate

4.6 ★ 231,890 Students Total

Spring & Hibernate for Beginners (includes Spring Boot)

```
32 Postal Code: <form:input path="postalCode" />  
33 <form:errors path="postalCode" cssClass="error" />  
34  
35 <br><br>  
36 Course Code: <form:input path="courseCode" />  
37 <form:errors path="courseCode" cssClass="error" />  
38  
39 <br><br>  
40 <input type="submit" value="Submit" />  
41  
42 </form:>  
43 </body>  
44 </html>  
45  
46  
47 </body>  
48  
49 </html>  
50  
51
```

Course content

- 168. Adding Validation Rule to the Entity and Form
- 169. Testing the Custom Validation Rule
- 170. FAQ: Spring MVC Custom Validation - Possible to validate with multiple strings?

Section 18: Introduction to Hibernate

Section 19: Setting Up Hibernate Development Environment

Section 20: Hibernate Configuration with Annotations

Section 21: Hibernate CRUD Features: Create, Read, Update and Delete

Overview Q&A Notes Announcements Reviews

Spring 5: Learn Spring 5 Core, AOP, Spring MVC, Spring Security, Spring REST, Spring Boot 2, Thymeleaf, JPA & Hibernate

4.6 ★ 231,890 Students Total

A screenshot of a video player interface. The main area displays a block of Java code for a JSP page:

```
38 Course Code: <form:input  
39 <form:errors path="courseCode" />  
40 <br><br>  
41 <input type="submit" value="Update" />  
42 </form:form>  
43 </body>  
44 </html>
```

The video player has a play button in the center. Below the video player, a blue bar says "Step 4: Update confirmation page". At the bottom of the screen, there is a navigation bar with links: Overview, Q&A, Notes, Announcements, and Reviews.

Spring 5: Learn Spring 5 Core, AOP, Spring MVC, Spring Security, Spring REST, Spring Boot 2, Thymeleaf, JPA & Hibernate

4.6 ★ 231,890 Students 42.5 hours

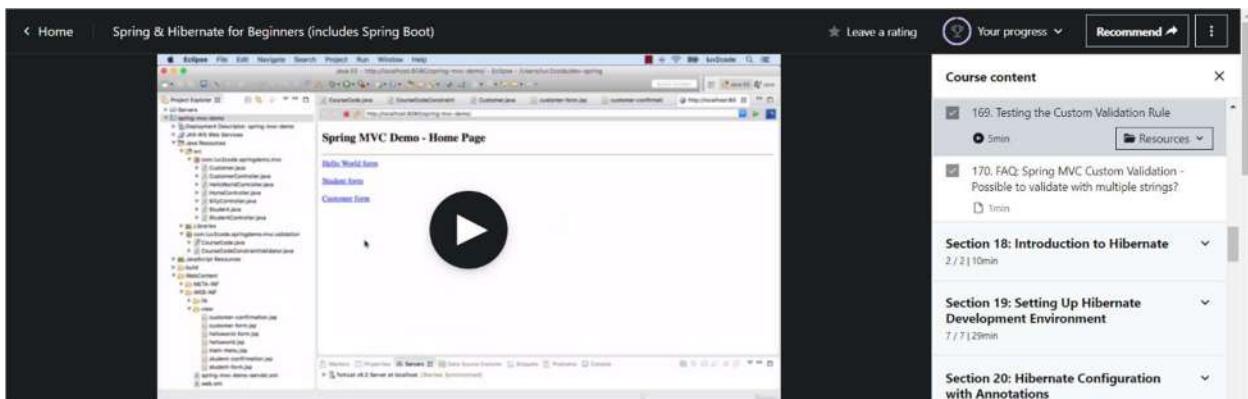
A screenshot of a video player interface. The main area displays a block of Java code in an Eclipse IDE environment:

```
16 <input type="text" name="customerName" value="${customer.customerName}" />  
17 Free passes: ${customer.freePasses}  
18 <br><br>  
19 Postal Code: ${customer.postalCode}  
20 <br><br>  
21 Course code: ${customer.courseCode}  
22 <br>  
23 </body>  
24 </html>
```

The video player has a play button in the center. To the right of the video player, there is a small portrait photo of a man. Below the video player, a blue bar says "Step 4: Update confirmation page". At the bottom of the screen, there is a navigation bar with links: Overview, Q&A, Notes, Announcements, and Reviews.

Spring 5: Learn Spring 5 Core, AOP, Spring MVC, Spring Security, Spring REST, Spring Boot 2, Thymeleaf, JPA & Hibernate

4.6 ★ 231,890 Students 42.5 hours



Overview Q&A Notes Announcements Reviews

Spring 5: Learn Spring 5 Core, AOP, Spring MVC, Spring Security, Spring REST, Spring Boot 2, Thymeleaf, JPA & Hibernate

4.6 ★ 231,890 Students 42.5 hours Total

#### Section 18: Introduction to Hibernate

2 / 2 | 10min

#### Section 19: Setting Up Hibernate Development Environment

7 / 7 | 29min

#### Section 20: Hibernate Configuration with Annotations

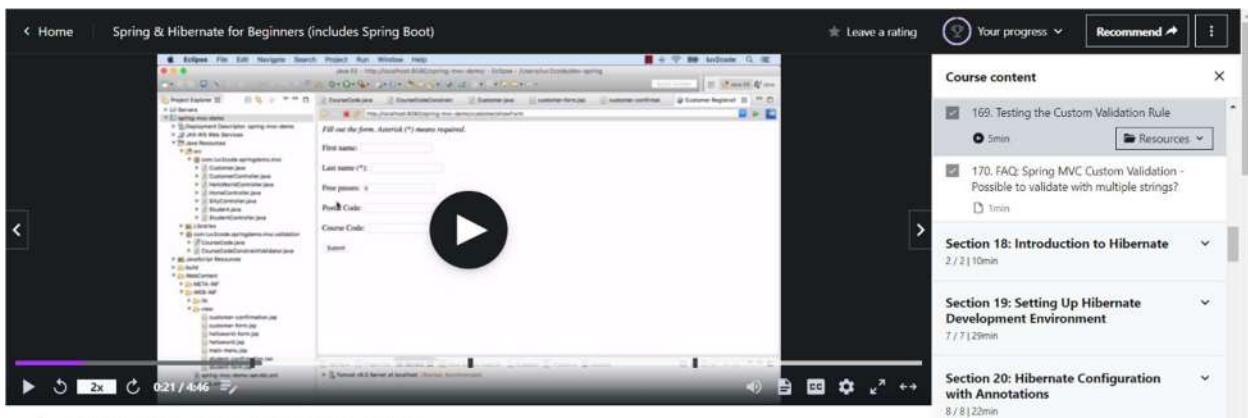
8 / 8 | 22min

#### Section 21: Hibernate CRUD Features: Create, Read, Update and Delete

17 / 17 | 1hr 25min

#### Section 22: Hibernate Advanced Mappings

2 / 2 | 8min



Overview Q&A Notes Announcements Reviews

Spring 5: Learn Spring 5 Core, AOP, Spring MVC, Spring Security, Spring REST, Spring Boot 2, Thymeleaf, JPA & Hibernate

4.6 ★ 231,890 Students 42.5 hours Total

#### Section 18: Introduction to Hibernate

2 / 2 | 10min

#### Section 19: Setting Up Hibernate Development Environment

7 / 7 | 29min

#### Section 20: Hibernate Configuration with Annotations

8 / 8 | 22min

#### Section 21: Hibernate CRUD Features: Create, Read, Update and Delete

17 / 17 | 1hr 25min

#### Section 22: Hibernate Advanced Mappings

2 / 2 | 8min

The screenshot shows a video player interface. The main content area displays a Java exception stack trace in a browser window. The stack trace starts with:

```
HTTP Status 500 – Request processing failed; nested exception is  
javax.validation.ValidationException: HV000028: Unexpected exception during  
isValid call.  
  
Caused by:  
java.lang.NullPointerException  
at org.springframework.web.servlet.DispatcherServlet.doService(DispatcherServlet.java:940)  
at org.springframework.web.servlet.FrameworkServlet.processRequest(FrameworkServlet.java:940)  
at javax.servlet.http.HttpServlet.service(HttpServlet.java:648)  
at org.springframework.web.servlet.FrameworkServlet.service(FrameworkServlet.java:729)  
at javax.servlet.http.HttpServlet.service(HttpServlet.java:729)  
at org.apache.catalina.core.ApplicationFilterChain.internalDoFilter(ApplicationFilterChain.java:188)  
at org.apache.catalina.core.ApplicationFilterChain.doFilter(ApplicationFilterChain.java:161)  
at org.apache.catalina.core.StandardWrapperValve.invoke(StandardWrapperValve.java:191)  
at org.apache.catalina.core.StandardContextValve.invoke(StandardContextValve.java:96)  
at org.apache.catalina.authenticator.AuthenticatorBase.invoke(AuthenticatorBase.java:542)  
at org.apache.catalina.core.StandardHostValve.invoke(StandardHostValve.java:139)  
at org.apache.catalina.valves.ErrorReportValve.invoke(ErrorReportValve.java:92)  
at org.apache.catalina.core.StandardEngineValve.invoke(StandardEngineValve.java:78)  
at org.apache.catalina.connector.CoyoteAdapter.service(CoyoteAdapter.java:193)  
at org.apache.coyote.ajp.AjpProcessor.service(AjpProcessor.java:207)  
at org.apache.coyote.AbstractProcessorLight.process(AbstractProcessorLight.java:66)  
at org.apache.coyote.AbstractProtocol$ConnectionHandler.process(AbstractProtocol.java:790)  
at org.apache.tomcat.util.net.NioEndpoint$SocketProcessor.doRun(NioEndpoint.java:1498)  
at org.apache.tomcat.util.net.SocketProcessorBase.run(SocketProcessorBase.java:49)  
at java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1149)  
at java.util.concurrent.ThreadPoolExecutor$Worker.run(ThreadPoolExecutor.java:628)  
at org.apache.tomcat.util.threads.TaskThread$WrappingRunnable.run(TaskThread.java:61)  
at java.lang.Thread.run(Thread.java:748)
```

## Spring 5: Learn Spring 5 Core, AOP, Spring MVC, Spring Security, Spring REST, Spring Boot 2, Thymeleaf, JPA & Hibernate

4.6 ★  
58,234 ratings  
231,890 Students  
42.5 hours Total

The screenshot shows a video player interface. The main content area displays a Java exception stack trace in a browser window. The stack trace starts with:

```
org.springframework.web.servlet.DispatcherServlet.doService(DispatcherServlet.java:940)  
org.springframework.web.servlet.FrameworkServlet.processRequest(FrameworkServlet.java:940)  
javax.servlet.http.HttpServlet.service(HttpServlet.java:648)  
org.springframework.web.servlet.FrameworkServlet.service(FrameworkServlet.java:729)  
org.apache.tomcat.websocket.server.WsFilter.doFilter(WsFilter.java:52)  
  
root cause  
java.lang.NullPointerException  
com.luv2code.springdemo.myannotation.CourseCodeConstraintValidator.isV  
com.luv2code.springdemo.myannotation.CourseCodeConstraintValidator.isV  
org.hibernate.validator.internal.engine.constraintvalidation.Constraint  
org.hibernate.validator.internal.engine.constraintvalidation.Constraint  
org.hibernate.validator.internal.engine.constraintvalidation.Constraint  
org.hibernate.validator.internal.metadata.core.MetaConstraint.validateCo  
org.hibernate.validator.internal.engine.ValidatorImpl.validateMetaConst  
org.hibernate.validator.internal.engine.ValidatorImpl.validateConstraint  
org.hibernate.validator.internal.engine.ValidatorImpl.validateConstraint  
org.hibernate.validator.internal.engine.ValidatorImpl.validateConstraint  
org.hibernate.validator.internal.engine.ValidatorImpl.validateInContext  
org.hibernate.validator.internal.engine.ValidatorImpl.validateInContext
```

## Spring 5: Learn Spring 5 Core, AOP, Spring MVC, Spring Security, Spring REST, Spring Boot 2, Thymeleaf, JPA & Hibernate

4.6 ★  
58,234 ratings  
231,890 Students  
42.5 hours Total

A screenshot of a video player interface. The main area displays a stack trace or a series of method calls in a Java-like language. A large play button is centered over the text. Below the video player are several tabs: Source Explorer, Snippets, Problems, Console, Overview, Q&A, Notes, Announcements, and Reviews. On the right side, there's a sidebar titled "Course content" which lists various video lessons with their titles, durations, and a "Resources" link.

## Spring 5: Learn Spring 5 Core, AOP, Spring MVC, Spring Security, Spring REST, Spring Boot 2, Thymeleaf, JPA & Hibernate

4.6 ★ 231,890 Students Total

A screenshot of a video player interface. The main area shows a Java code editor with a class named `CourseCodeConstraintValidator`. A red callout bubble points to a line of code that reads `boolean result = theCode.startsWith(coursePrefix);`. The callout contains the text "Need to check for null". Below the video player are the same tabs as the first screenshot: Source Explorer, Snippets, Problems, Console, Overview, Q&A, Notes, Announcements, and Reviews. The sidebar on the right shows course content with sections like "Section 18: Introduction to Hibernate", "Section 19: Setting Up Hibernate Development Environment", and "Section 20: Hibernate Configuration with Annotations".

## Spring 5: Learn Spring 5 Core, AOP, Spring MVC, Spring Security, Spring REST, Spring Boot 2, Thymeleaf, JPA & Hibernate

4.6 ★ 231,890 Students Total

A screenshot of a video player interface. The main area displays a Java code editor with the following code:

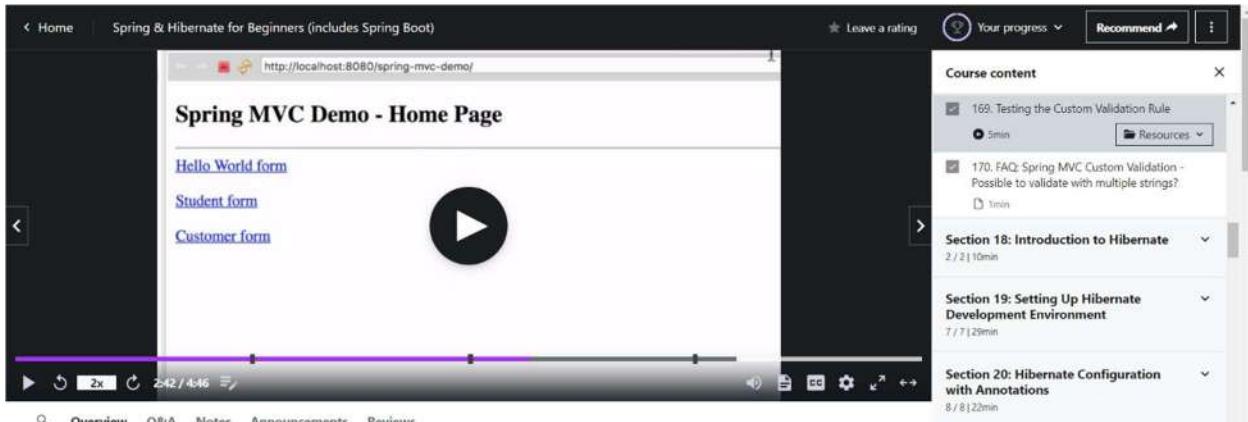
```
16-     @Override
17-     public boolean isValid(String theCode,
18-                           ConstraintValidatorContext theConstraintValidatorContext) {
19-
20-         boolean result;
21-
22-         if (theCode != null) {
23-             result = theCode.startsWith("S");
24-         }
25-         else {
26-             result = true;
27-         }
28-
29-         return result;
30-     }
31- }
```

A large play button icon is overlaid on the code editor. The top navigation bar shows the course title "Spring & Hibernate for Beginners (includes Spring Boot)". On the right side, there is a "Course content" sidebar with several sections listed.

Overview Q&A Notes Announcements Reviews

Spring 5: Learn Spring 5 Core, AOP, Spring MVC, Spring Security, Spring REST, Spring Boot 2, Thymeleaf, JPA & Hibernate

4.6 ★ 231,890 Students Total



Overview Q&A Notes Announcements Reviews

Spring 5: Learn Spring 5 Core, AOP, Spring MVC, Spring Security, Spring REST, Spring Boot 2, Thymeleaf, JPA & Hibernate

4.6 ★ 231,890 Students Total

[← Home](#) Spring & Hibernate for Beginners (includes Spring Boot)

Fill out the form. Asterisk (\*) means required.

First name:

Last name (\*): smith

Free passes: 0

Postal Code:

Course Code:

Submit 

Course content

- 169. Testing the Custom Validation Rule 5min Resources
- 170. FAQ: Spring MVC Custom Validation - Possible to validate with multiple strings? 1min

Section 18: Introduction to Hibernate 2 / 2 | 10min

Section 19: Setting Up Hibernate Development Environment 7 / 7 | 29min

Section 20: Hibernate Configuration with Annotations 8 / 8 | 22min

Section 21: Hibernate CRUD Features: Create, Read, Update and Delete 17 / 17 | 1hr 25min

Section 22: Hibernate Advanced Mappings 2 / 2 | 8min

Overview Q&A Notes Announcements Reviews

Spring 5: Learn Spring 5 Core, AOP, Spring MVC, Spring Security, Spring REST, Spring Boot 2, Thymeleaf, JPA & Hibernate

4.6 ★ 231,890 Students Total

[← Home](#) Spring & Hibernate for Beginners (includes Spring Boot)

The customer is confirmed: smith

Free passes: 0

Postal Code:

Course code: 

Course content

- 169. Testing the Custom Validation Rule 5min Resources
- 170. FAQ: Spring MVC Custom Validation - Possible to validate with multiple strings? 1min

Section 18: Introduction to Hibernate 2 / 2 | 10min

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4.6 ★ 231,890 Students Total

[← Home](#) Spring & Hibernate for Beginners (includes Spring Boot)

Fill out the form. Asterisk (\*) means required.

First name:

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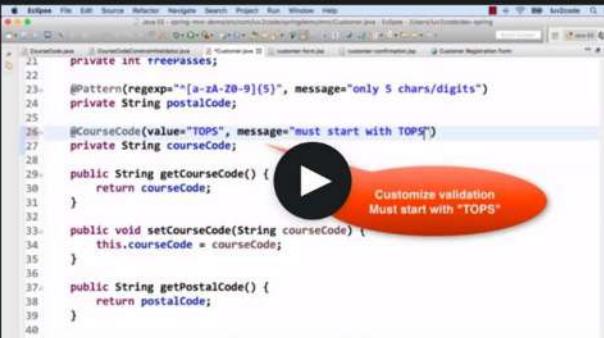
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A screenshot of an Eclipse-based IDE showing a Java code editor. The code is annotated with Spring Validation annotations, specifically @Pattern and @Size. A red callout bubble highlights the validation message "Must start with 'TOPS'" associated with the @Pattern annotation on the course code field. The code snippet is as follows:

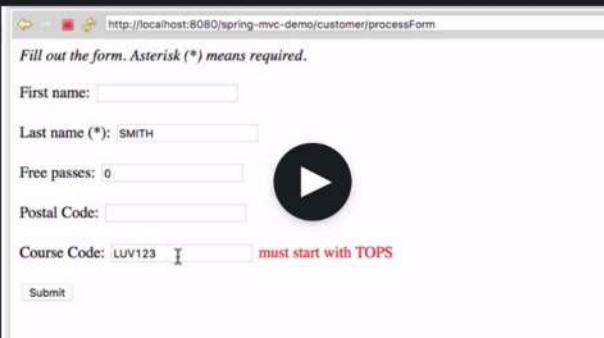
```
private int freePasses;
@Pattern(regexp="^a-zA-Z0-9]{5}$", message="only 5 chars/digits")
private String postalCode;
@CourseCode(value="TOPS", message="must start with TOPS")
private String courseCode;
public String getCourseCode() {
    return courseCode;
}
public void setCourseCode(String courseCode) {
    this.courseCode = courseCode;
}
public String getPostalCode() {
    return postalCode;
}
```

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A screenshot of a web browser displaying a form submission page. The URL is http://localhost:8080/spring-mvc-demo/customer/processForm. The form contains fields for First name, Last name (\*), Free passes, Postal Code, and Course Code. The Course Code field has a validation error message: "must start with TOPS". A red callout bubble highlights this error message. The browser status bar shows the URL.

Fill out the form. Asterisk (\*) means required.

First name:

Last name (\*): SMITH

Free passes: 0

Postal Code:

Course Code: LUV123  must start with TOPS

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4.6 ★ 58,234 ratings 231,890 Students 42.5 hours Total

The customer is confirmed: SMITH

Free passes: 0

Postal Code:

Course code: TOPS123

iuv2code

Spring 5: Learn Spring 5 Core, AOP, Spring MVC, Spring Security, Spring REST, Spring Boot 2, Thymeleaf, JPA & Hibernate

4.6 ★ 58,234 ratings 231,890 Students 42.5 hours Total

## Spring MVC Custom Validation - FAQ: Is it possible to integrate multiple validation string in one annotation?



169-faq-spring-mvc-c  
ustom-validation-pos:

