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90

Could you help me write spring mvc style analog of this code?

session.setAttribute("name","value");

And how to add an element that is annotated by @ModelAttribute annotation to session and then get access to it?

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asked Sep 13 '13 at 17:05

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9 Answers

[Active](https://stackoverflow.com/questions/18791645/how-to-use-session-attributes-in-spring-mvc?answertab=active#tab-top)[Oldest](https://stackoverflow.com/questions/18791645/how-to-use-session-attributes-in-spring-mvc?answertab=oldest#tab-top)[Votes](https://stackoverflow.com/questions/18791645/how-to-use-session-attributes-in-spring-mvc?answertab=votes#tab-top)

200

If you want to delete object after each response you don't need session,

If you want keep object during user session , There are some ways:

1. directly add one attribute to session:
2. @RequestMapping(method = RequestMethod.GET)
3. public String testMestod(HttpServletRequest request){
4. ShoppingCart cart = (ShoppingCart)request.getSession().setAttribute("cart",value);
5. return "testJsp";
6. }

and you can get it from controller like this :

ShoppingCart cart = (ShoppingCart)session.getAttribute("cart");

1. Make your controller session scoped
2. @Controller
3. @Scope("session")
4. Scope the Objects ,for example you have user object that should be in session every time:
5. @Component
6. @Scope("session")
7. public class User
8. {
9. String user;
10. /\* setter getter\*/
11. }

then inject class in each controller that you want

@Autowired

private User user

that keeps class on session.

1. The AOP proxy injection : in spring -xml:
2. <beans xmlns="http://www.springframework.org/schema/beans"
3. xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
4. xmlns:aop="http://www.springframework.org/schema/aop"
5. xsi:schemaLocation="http://www.springframework.org/schema/beans
6. http://www.springframework.org/schema/beans/spring-beans-3.1.xsd
7. http://www.springframework.org/schema/aop
8. http://www.springframework.org/schema/aop/spring-aop-3.1.xsd">
9. <bean id="user" class="com.User" scope="session">
10. <aop:scoped-proxy/>
11. </bean>
12. </beans>

then inject class in each controller that you want

@Autowired

private User user

5.Pass HttpSession to method:

String index(HttpSession session) {

session.setAttribute("mySessionAttribute", "someValue");

return "index";

}

6.Make ModelAttribute in session By @SessionAttributes("ShoppingCart"):

public String index (@ModelAttribute("ShoppingCart") ShoppingCart shoppingCart, SessionStatus sessionStatus) {

//Spring V4

//you can modify session status by sessionStatus.setComplete();

}

or you can add Model To entire Controller Class like,

@Controller

@SessionAttributes("ShoppingCart")

@RequestMapping("/req")

public class MYController {

@ModelAttribute("ShoppingCart")

public Visitor getShopCart (....) {

return new ShoppingCart(....); //get From DB Or Session

}

}

each one has advantage and disadvantage:

@session may use more memory in cloud systems it copies session to all nodes, and direct method (1 and 5) has messy approach, it is not good to unit test.

To access session jsp

<%=session.getAttribute("ShoppingCart.prop")%>

in Jstl :

<c:out value="${sessionScope.ShoppingCart.prop}"/>

in Thymeleaf:

<p th:text="${session.ShoppingCart.prop}" th:unless="${session == null}"> . </p>

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answered Sep 13 '13 at 21:35

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* 6

3. If your controller is singleton then you need to definition proxyMode = ScopedProxyMode.TARGET\_CLASS for injected component with session scope. @Scope(value = "session", proxyMode = ScopedProxyMode.TARGET\_CLASS)

– [Vadim Kolesnikov](https://stackoverflow.com/users/5011395/vadim-kolesnikov)

[Jun 16 '16 at 20:13](https://stackoverflow.com/questions/18791645/how-to-use-session-attributes-in-spring-mvc#comment63193872_18795626)

* 1

Making the controller session scoped is the worst option here, even though it looks simple and easy to use at first. But if you want to scale your application out some time in the future, you'll be running into trouble as you will probably be needing a distributed session store such as Redis (unless you use sticky sessions, sacrificing availability for convenience). Thus, session-scoped beans should generally be dumb serializable POJOs. This way you are prepared for scale-out in case the need arises.

– [chris](https://stackoverflow.com/users/531232/chris" \o "2,271 reputation)

[Apr 11 '17 at 13:08](https://stackoverflow.com/questions/18791645/how-to-use-session-attributes-in-spring-mvc#comment73756844_18795626)

* What about RequestContextHolder?

– [user1589188](https://stackoverflow.com/users/1589188/user1589188)

[May 29 '19 at 4:24](https://stackoverflow.com/questions/18791645/how-to-use-session-attributes-in-spring-mvc#comment99310600_18795626)

* Injecting the User bean will only work if you are calling the bean in a class tha is also session scoped, otherwise if no session exists then it throws exception since there would not be any active session in the context @runtime when we inject the user bean i another class!!

– [Jose Mhlanga](https://stackoverflow.com/users/9757258/jose-mhlanga)

[Aug 4 '20 at 15:34](https://stackoverflow.com/questions/18791645/how-to-use-session-attributes-in-spring-mvc#comment111845588_18795626)

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Use @SessionAttributes

See the docs: [Using @SessionAttributes to store model attributes in the HTTP session between requests](http://docs.spring.io/spring/docs/3.2.x/spring-framework-reference/html/mvc.html#mvc-ann-sessionattrib)

"[Understanding Spring MVC Model And Session Attributes](http://www.intertech.com/Blog/understanding-spring-mvc-model-and-session-attributes/)" also gives a very good overview of Spring MVC sessions and explains how/when @ModelAttributes are transferred into the session (if the controller is @SessionAttributes annotated).

That article also explains that it is better to use @SessionAttributes on the model instead of setting attributes directly on the HttpSession because that helps Spring MVC to be view-agnostic.

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answered Nov 27 '13 at 8:49

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[Heinrich Filter](https://stackoverflow.com/users/101434/heinrich-filter)

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* 1

How can you leverage the sessionAttributes to transfer objects between Controllers?

– [Akah](https://stackoverflow.com/users/3412127/akah" \o "1,209 reputation)

[Apr 28 '16 at 14:02](https://stackoverflow.com/questions/18791645/how-to-use-session-attributes-in-spring-mvc#comment61395990_20237607)

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28

SessionAttribute annotation is the simplest and straight forward instead of getting session from request object and setting attribute. **Any object can be added to the model in controller and it will stored in session if its name matches with the argument in @SessionAttributes annotation.** In below eg, personObj will be available in session.

@Controller

@SessionAttributes("personObj")

public class PersonController {

@RequestMapping(value="/person-form")

public ModelAndView personPage() {

return new ModelAndView("person-page", "person-entity", new Person());

}

@RequestMapping(value="/process-person")

public ModelAndView processPerson(@ModelAttribute Person person) {

ModelAndView modelAndView = new ModelAndView();

modelAndView.setViewName("person-result-page");

modelAndView.addObject("pers", person);

modelAndView.addObject("personObj", person);

return modelAndView;

}

}

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answered Dec 5 '13 at 13:35

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* sessions work just for requests within the same controller instance. What if control needs to be sent to another controller, this session will be destroyed and a new one created if necessary.

– [Akah](https://stackoverflow.com/users/3412127/akah" \o "1,209 reputation)

[Apr 28 '16 at 14:01](https://stackoverflow.com/questions/18791645/how-to-use-session-attributes-in-spring-mvc#comment61395952_20401440)

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@larrytech how could it be? I think you have just forgotten to add SessionAttributes to your second controller

– [Yura](https://stackoverflow.com/users/1406807/yura" \o "1,567 reputation)

[Dec 19 '16 at 15:00](https://stackoverflow.com/questions/18791645/how-to-use-session-attributes-in-spring-mvc#comment69649388_20401440)

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19

The below annotated code would set "value" to "name"

@RequestMapping("/testing")

@Controller

public class TestController {

@RequestMapping(method = RequestMethod.GET)

public String testMestod(HttpServletRequest request){

request.getSession().setAttribute("name", "value");

return "testJsp";

}

}

To access the same in JSP use ${sessionScope.name}.

For the @ModelAttribute see this [link](https://stackoverflow.com/questions/3423262/what-is-modelattribute-in-spring-mvc)

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answered Sep 13 '13 at 17:18

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5

Isn't it easiest and ***shortest*** that way? I knew it and just tested it - working perfect here:

@GetMapping

public String hello(HttpSession session) {

session.setAttribute("name","value");

return "hello";

}

p.s. *I came here searching for an answer of "****How to use Session attributes in Spring-mvc****", but read so many without seeing the most obvious that I had written in my code. I didn't see it, so I thought its wrong, but no it was not. So lets share that knowledge with the easiest solution for the main question.*

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* 1

You're right ! that's what I was thinking since you can acess all Http object that we need directly when you declare them in Controller methods (GET/POST request)

– [Shessuky](https://stackoverflow.com/users/1387275/shessuky" \o "1,508 reputation)

[Dec 20 '19 at 15:28](https://stackoverflow.com/questions/18791645/how-to-use-session-attributes-in-spring-mvc#comment105041374_43561715)

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1

In Spring 4 Web MVC. You can use @SessionAttribute in the method with @SessionAttributes in Controller level

@Controller

@SessionAttributes("SessionKey")

public class OrderController extends BaseController {

GetMapping("/showOrder")

public String showPage(@SessionAttribute("SessionKey") SearchCriteria searchCriteria) {

// method body

}

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1

Try this...

@Controller

@RequestMapping("/owners/{ownerId}/pets/{petId}/edit")

@SessionAttributes("pet")

public class EditPetForm {

@ModelAttribute("types")

public Collection<PetType> populatePetTypes() {

return this.clinic.getPetTypes();

}

@RequestMapping(method = RequestMethod.POST)

public String processSubmit(@ModelAttribute("pet") Pet pet,

BindingResult result, SessionStatus status) {

new PetValidator().validate(pet, result);

if (result.hasErrors()) {

return "petForm";

}else {

this.clinic.storePet(pet);

status.setComplete();

return "redirect:owner.do?ownerId="

+ pet.getOwner().getId();

}

}

}

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answered Jun 24 '17 at 12:20

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0

When I trying to my login (which is a bootstrap modal), I used the @sessionattributes annotation. But problem was when the view is a redirect ("redirect:/home"), values I entered to session shows in the url. Some Internet sources suggest to follow <http://docs.spring.io/spring/docs/4.3.x/spring-framework-reference/htmlsingle/#mvc-redirecting> But I used the HttpSession instead. This session will be there until you close the browsers. Here is sample code

@RequestMapping(value = "/login")

@ResponseBody

public BooleanResponse login(HttpSession session,HttpServletRequest request){

//HttpServletRequest used to take data to the controller

String username = request.getParameter("username");

String password = request.getParameter("password");

//Here you set your values to the session

session.setAttribute("username", username);

session.setAttribute("email", email);

//your code goes here

}

You don't change specific thing on view side.

<c:out value="${username}"></c:out>

<c:out value="${email}"></c:out>

After login add above codes to anyplace in you web site. If session correctly set, you will see the values there. Make sure you correctly added the jstl tags and El- expressions (Here is link to set jstl tags <https://menukablog.wordpress.com/2016/05/10/add-jstl-tab-library-to-you-project-correctly/>)

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answered Oct 26 '16 at 3:53

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0

Use This method very simple easy to use

HttpServletRequest request = (HttpServletRequest) context.getExternalContext().getNativeRequest();

request.getSession().setAttribute("errorMsg", "your massage");

in jsp once use then remove

<c:remove var="errorMsg" scope="session"/>