Spring RequestMapping Supported Method Arguments

The following are the supported method arguments:

- Request or response objects (Servlet API) Choose any specific request or response type, for example ServletRequest or HttpServletRequest.
- Session object (Servlet API) of type HttpSession . An argument of this type enforces the presence of a corresponding session. As a consequence, such an argument is never null .



Session access may not be thread-safe, in particular in a Servlet environment. Consider setting the RequestMappingHandlerAdapter 's "synchronizeOnSession" flag to "true" if multiple requests are allowed to access a session concurrently.

- org.springframework.web.context.request.WebRequest or org.springframework.web.context.request.NativeWebRequest . Allows for generic request parameter access as well as request/session attribute access, without ties to the native Servlet/Portlet API.
- java.util.Locale for the current request locale, determined by the most specific locale resolver available, in effect, the configured LocaleResolver in a Servlet environment.
- java.io.InputStream / java.io.Reader for access to the request's content. This value is the raw InputStream/Reader as exposed by the Servlet API.
- java.io.OutputStream / java.io.Writer for generating the response's content. This value is the raw OutputStream/Writer as exposed by the Servlet API.
- org.springframework.http.HttpMethod for the HTTP request method.
- java.security.Principal containing the currently authenticated user.
- @PathVariable annotated parameters for access to URI template variables. See the section called "URI Template Patterns".
- @MatrixVariable annotated parameters for access to name-value pairs located in URI path segments. See the section called "Matrix Variables".
- @RequestParam annotated parameters for access to specific Servlet request parameters. Parameter values are converted to the declared method argument type. See the section called "Binding request parameters to method parameters with @RequestParam".
- @RequestHeader annotated parameters for access to specific Servlet request HTTP headers. Parameter values are converted to the declared method argument type.
- @RequestBody annotated parameters for access to the HTTP request body. Parameter values are converted to the declared method argument type using
 - HttpMessageConverter s. See the section called "Mapping the request body with the @RequestBody annotation".
- @RequestPart annotated parameters for access to the content of a "multipart/form-data" request part. See <u>Section 16.11.5, "Handling a file</u> upload request from programmatic clients" and <u>Section 16.11, "Spring's multipart (file upload) support"</u>.
- HttpEntity<?> parameters for access to the Servlet request HTTP headers and contents. The request stream will be converted to the entity body using
- HttpMessageConverter s. See <u>HttpEntity">the section called "Using HttpEntity"</u>.
- java.util.Map / org.springframework.ui.Model / org.springframework.ui.ModelMap for enriching the implicit model that is exposed to the web view.
- org.springframework.web.servlet.mvc.support.RedirectAttributes to specify the exact set of attributes to use in case of a redirect and also to add flash attributes (attributes stored temporarily on the server-side to make them available to the request after the redirect). RedirectAttributes is used instead of the implicit model if the method returns a "redirect:" prefixed view name or RedirectView .
- Command or form objects to bind request parameters to bean properties (via setters) or directly to fields, with customizable type conversion, depending on @InitBinder methods and/or the HandlerAdapter configuration. See the webBindingInitializer property on RequestMappingHandlerAdapter . Such command objects along with their validation results will be exposed as model attributes by default, using the command class class name e.g. model attribute "orderAddress" for a command object of type "some.package.OrderAddress". The ModelAttribute annotation can be used on a method argument to customize the model attribute name used.
- org.springframework.validation.Errors / org.springframework.validation.BindingResult validation results for a preceding command or form object (the immediately preceding method argument).
- org.springframework.web.bind.support.SessionStatus status handle for marking form processing as complete, which triggers the cleanup of session attributes that have been indicated by the @SessionAttributes annotation at the handler type level.
- org.springframework.web.util.UriComponentsBuilder a builder for preparing a URL relative to the current request's host, port, scheme, context path, and the literal part of the servlet mapping.

more that one model **object** and Spring will create a separate **BindingResult instance** for each of them so the following sample won't work:

BindingResult and @ModelAttribute"

Invalid ordering of BindingResult and @ModelAttribute.

@RequestMapping(method = RequestMethod.POST)
public String processSubmit(@ModelAttribute("pet") Pet pet, Model model, BindingResult result) { ... }

Note, that there is a Model parameter in between Pet and BindingResult. To get this working you have to reorder the parameters as follows:

@RequestMapping(method = RequestMethod.POST)
public String processSubmit(@ModelAttribute("pet") Pet pet, BindingResult result, Model model) { ... }