# Spring Professional Exam Tutorial v5.0 Question 09

- WebRequest, NativeWebRequest Access to HTTP request details, parameters, also request and session attributes, without direct use of the Servlet API
- javax.servlet.ServletRequest object to provide client request information, allows access to parameters, attributes and other request details without direct use of Spring Interfaces
- javax.servlet.ServletResponse object created by servlet container, passed to service method of servlet, used by servlet to send a response to the client
- javax.servlet.http.PushBuilder Servlet 4.0 push builder API for programmatic HTTP/2 resource pushes, allows resources to be delivered in advance by the server, resulting in a faster load time

- java.security.Principal currently authenticated user
- HttpMethod HTTP method used for request, one of GET, HEAD, POST, PUT, PATCH, DELETE, OPTIONS, TRACE
- java.util.Locale request locale, determined by the most specific
  LocaleResolver available
- java.util.TimeZone + java.time.ZoneId time zone associated with the current request, as determined by a LocaleContextResolver.
- java.io.InputStream, java.io.Reader allows access to raw request body as exposed by the Servlet API
- java.io.OutputStream, java.io.Writer allows to create raw response as exposed by the Servlet API

- HttpEntity<B> container object that exposes request headers and body, body is converted with usage of HttpMessageConverter
- java.util.Map, org.springframework.ui.Model,
  org.springframework.ui.ModelMap used to expose data to templates as part of
  view rendering
- RedirectAttributes specify attributes to use in case of redirect, regular attributes will be added to query string and flash attributes will be kept temporarily until end of request, flash attributes are kept typically in the session and are removed immediately after request is completed
- Errors, BindingResult used to gain access to form validation and binding data results, can be used with <code>@ModelAttribute</code>, <code>@RequestBody</code> or <code>@RequestPart</code> argument, <code>Errors</code> and <code>BindingResult</code> argument must be declared immediately after the validated method argument

- SessionStatus + class-level @SessionAttributes useful for multi step form processing, @SessionAttributes allows to keep @ModelAttribute objects between requests and SessionStatus allows to clean session variables when form processing is done
- UriComponentsBuilder used to build URLs relative to current scheme, host, port, contextPath etc.
- Any other argument if a method argument is not matched against types defined before, and it is a simply type, it is treated as @RequestParam, if it is a complex type, it is treated as @ModelAttribute