**JAVA SERVLET**

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| **Javax.servlet** | The javax.servlet package contains a number of classes and interfaces that describe and define the contracts between a servlet class and the runtime environment provided for an instance of such a class by a conforming servlet container. |
| **Javax.servlet.annotation** | The javax.servlet.annotation package contains a number of annotations that allow users to use annotations to declare servlets, filters, listeners and specify the metadata for the declared component. |
| **Javax.servlet.descriptor** | Provides programmatic access to a web application's configuration information that was aggregated from the web.xml and web-fragment.xml descriptors. |
| **Javax.servlet.http** | The javax.servlet.http package contains a number of classes and interfaces that describe and define the contracts between a servlet class running under the HTTP protocol and the runtime environment provided for an instance of such a class by a conforming servlet container. |

**Servlet** - Defines methods that all servlets must implement.

A servlet is a small Java program that runs within a Web server. Servlets receive and respond to requests from Web clients, usually across HTTP, the HyperText Transfer Protocol.

**Methods**

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| **Destroy()** | Called by the servlet container to indicate to a servlet that the servlet is being taken out of service. |
| **getServletConfig()** | Returns a [ServletConfig](file:///D:\\Documents%20&%20Downloads\\Compressed\\javax\\servlet\\ServletConfig.html" \o "interface in javax.servlet) object, which contains initialization and startup parameters for this servlet. |
| **getServletInfo()** | Returns information about the servlet, such as author, version, and copyright. |
| **Init(ServletConfig config)** | Called by the servlet container to indicate to a servlet that the servlet is being placed into service. |
| **Service(ServletRequest req, ServletResponse res)** | Called by the servlet container to allow the servlet to respond to a request. |

**ServletConfig** - A servlet configuration object used by a servlet container to pass information to a servlet during initialization.

**Methods**

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| **getInitParameter(**java.lang.String name**)** | Gets the value of the initialization parameter with the given name. |
| **getInitParameterNames()** | Returns the names of the servlet's initialization parameters as an Enumeration of String objects, or an empty Enumeration if the servlet has no initialization parameters. |
| **getServletContext()** | Returns a reference to the [ServletContext](file:///D:\\Documents%20&%20Downloads\\Compressed\\javax\\servlet\\ServletContext.html" \o "interface in javax.servlet) in which the caller is executing. |
| **getServletName()** | Returns the name of this servlet instance. |

**ServletContainerInitializer** - Interface which allows a library/runtime to be notified of a web application's startup phase and perform any required programmatic registration of servlets, filters, and listeners in response to it.

**Methods**

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| **onStartup(**java.util<java.lang.Class<?>> **c**, ServletContext **ctx)** | Notifies this ServletContainerInitializer of the startup of the application represented by the given ServletContext. |

Where

**C** - the Set of application classes that extend, implement, or have been annotated with the class types specified by the [HandlesTypes](file:///D:\\Documents%20&%20Downloads\\Compressed\\javax\\servlet\\annotation\\HandlesTypes.html" \o "annotation in javax.servlet.annotation) annotation, or nullif there are no matches, or this ServletContainerInitializer has not been annotated with HandlesTypes

**Ctx** - the ServletContext of the web application that is being started and in which the classes contained in c were found

**ServletContext** - Defines a set of methods that a servlet uses to communicate with its servlet container, for example, to get the MIME type of a file, dispatch requests, or write to a record file.

**ServletContextAttributeListener** - Interface for receiving notification events about ServletContext attribute changes.

**ServletContextListener** - Interface for receiving notification events about ServletContext lifecycle changes.

**ServletRegistration** - Interface through which a [Servlet](file:///D:\Documents%20&%20Downloads\Compressed\javax\servlet\Servlet.html) may be further configured.

**ServletRegistration.Dynamic** - Interface through which a [Servlet](file:///D:\Documents%20&%20Downloads\Compressed\javax\servlet\Servlet.html) registered via one of the *addServlet* methods on [ServletContext](file:///D:\\Documents%20&%20Downloads\\Compressed\\javax\\servlet\\ServletContext.html" \o "interface in javax.servlet) may be further configured.

**ServletRequest** - Defines an object to provide client request information to a servlet.

**ServletRequestAttributeListener** - Interface for receiving notification events about ServletRequest attribute changes.

**ServletRequestListener** - Interface for receiving notification events about requests coming into and going out of scope of a web application.

**ServletRespone** - Defines an object to assist a servlet in sending a response to the client.

Session