**4.Servlet Interface:**

* **Servlet interface provides** common behavior to all the servlets. Servlet interface defines methods that all servlets must implement.
* Servlet interface needs to be implemented for creating any servlet (either directly or indirectly).
* It provides 3 life cycle methods that are used to initialize the servlet, to service the requests, and to destroy the servlet 2 non-life cycle methods **getServletConfig**, **getServletInfo** These are invoked by the web container.

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| --- | --- |
| **Method** | **Description** |
| **Public void init(ServletConfig config)** | initializes the servlet. It is the life cycle method of servlet and invoked by the web container only once. |
| **Public void service(ServletRequest request,ServletResponse response)** | provides response for the incoming request. It is invoked at each request by the web container. |
| **public void destroy()** | is invoked only once and indicates that servlet is being destroyed. |
| **public ServletConfig getServletConfig()** | returns the object of ServletConfig. |
| **public String getServletInfo()** | returns information about servlet such as writer, copyright, version etc. |

**Servlet Example by implementing Servlet interface:**

import java.io.\*;

import javax.servlet.\*;

public class First implements Servlet{

ServletConfig config=null;

public void init(ServletConfig config){

this.config=config;

System.out.println("servlet is initialized");

}

public void service(ServletRequest req,ServletResponse res)

throws IOException,ServletException{

res.setContentType("text/html");

PrintWriter out=res.getWriter();

out.print("<html><body>");

out.print("<b>hello simple servlet</b>");

out.print("</body></html>");

}

public void destroy(){System.out.println("servlet is destroyed");}

public ServletConfig getServletConfig(){return config;}

public String getServletInfo(){return "copyright 2007-1010";}

}