# SERVLET LISTENERS

## **Servlet Listeners:**

Servlet listeners are interfaces that contain event handlers to handle events which are generated by web container.

## List of servlet listeners:

- 1) ServletContextListener
- 2) ServletContextAttributeListener
- 3) HttpSessionListener
- 4) HttpSessionAttributeListener, .. etc.,

## ServletContextListener:

It contains the following event handlers to handle ServletContextEvent which is generated by web container.

- public default void contextInitialized(ServletContextEvent);
- public default void contextDestroyed(ServletContextEvent);

ServletContextEvent is generated by web container whenever ServletContext is created & destroyed.

ServletContext is created by web container whenever web application is deployed.

ServletContext is destroyed by web container whenever web application is undeployed.

# **Example:**

#### **MyListener.java:**

```
import java.sql.*;
import javax.servlet.*;
public class MyListener implements ServletContextListener
Connection con;
public void contextInitialized(ServletContextEvent sce)
 try{
 Class.forName("oracle.jdbc.driver.OracleDriver");
con=DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:x
e","system","manager");
 ServletContext sc=sce.getServletContext();
 sc.setAttribute("oracle", con);
 }catch(Exception e)
 System.err.println(e);
public void contextDestroyed(ServletContextEvent sce)
```

```
}catch(Exception e)
 System.err.println(e);
web.xml:
<web-app>
<listener>
tener-class>MyListener/listener-class>
</listener>
<servlet>
<servlet-name>demo</servlet-name>
<servlet-class>MyServlet</servlet-class>
</servlet>
<servlet-mapping>
<servlet-name>demo</servlet-name>
<url-pattern>/test</url-pattern>
</servlet-mapping>
</web-app>
```

# ServletContextAttributeListener:

It contains the following event handlers to handle ServletContextAttributeEvent which is generated by web container.

- public default void attributeAdded(javax.servlet.ServletContextAttributeEvent);
- 2) public default void attributeRemoved(javax.servlet.ServletContextAttributeEvent);
- 3) public default void attributeReplaced(javax.servlet.ServletContextAttributeEvent);

ServletContextAttributeEvent is generated by web container whenever attribute is added to ServletContext, attribute is removed from ServletContext and attribute is replaced in a ServletContext.

## **HttpSessionListener:**

It contains the following event handlers to handle HttpSessionEvent which is generated by the web container.

- public default void sessionCreated(javax.servlet.http.HttpSessionEvent);
- 2) public default void sessionDestroyed(javax.servlet.http.HttpSessionEvent);

HttpSessionEvent is generated by web container whenever session is created & destroyed.

# **HttpSessionAttributeListener:**

It contains the following event handlers to handle
HttpSessionBindingEvent which is generated by web container.

- public default void attributeAdded(javax.servlet.http.HttpSessionBindingEvent);
- 2) public default void attributeRemoved(javax.servlet.http.HttpSessionBindingEvent);
- 3) public default void attributeReplaced(javax.servlet.http.HttpSessionBindingEvent);

HttpSessionBindingEvent is generated by web container whenever attribute is added to session, attribute is removed from session and attribute is replaced in a session.

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