

Dt : 20/12/2023

ContextListener.java

package test;

import javax.servlet.*;

import javax.servlet.annotation.*;

@WebListener

public class ContextListener implements ServletContextListener,

ServletContextAttributeListener{

@Override

public void contextInitialized(ServletContextEvent sce) {

System.out.println("Context Object initialized...");

ServletContext sct = sce.getServletContext();//Accessing Context

Objec_ref

System.out.println("Application deployed into :

"+sct.getServerInfo());

}

@Override

public void contextDestroyed(ServletContextEvent sce) {

System.out.println("Context Object destroyed...");

}

@Override

public void attributeAdded(ServletContextAttributeEvent scae) {

```

        System.out.println("Attribute added to Context Object");

        String aName = scae.getName();

        System.out.println("Attribute Name : "+aName);

    }

    @Override

    public void attributeRemoved(ServletContextAttributeEvent scae) {

        System.out.println("Attribute removed from Context Object");

    }

}

```

Note:

=>Add ContextListener.java program into Cookie Session tracking Application.

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RequestListener.java

```

package test;

import javax.servlet.*;

import javax.servlet.annotation.*;

@WebListener

public class RequestListener implements ServletRequestListener,

ServletRequestAttributeListener{

    @Override

    public void requestInitialized(ServletRequestEvent sre) {

```

```
        System.out.println("Request Object initialized....");
    }

    @Override
    public void requestDestroyed(ServletRequestEvent sre) {
        System.out.println("Request Object destroyed...");
    }

    @Override
    public void attributeAdded(ServletRequestAttributeEvent srae) {
        System.out.println("Attribute added to Request Object...");
        String aName = srae.getName();
        System.out.println("Attribute Name:"+aName);
    }

    @Override
    public void attributeRemoved(ServletRequestAttributeEvent srae) {
        System.out.println("Attribute removed from Request Object...");
    }
}
```

SessionListener.java

```
package test;

import javax.servlet.http.*;
import javax.servlet.annotation.*;

@WebListener
```

```
public class SessionListener implements HttpSessionListener,  
HttpSessionAttributeListener{  
  
    @Override  
  
    public void sessionCreated(HttpSessionEvent hse) {  
  
        System.out.println("Session Created...");  
  
    }  
  
    @Override  
  
    public void sessionDestroyed(HttpSessionEvent hse) {  
  
        System.out.println("Session destroyed...");  
  
    }  
  
    @Override  
  
    public void attributeAdded(HttpSessionBindingEvent hsbe) {  
  
        System.out.println("Attribute added to Session...");  
  
        String aName = hsbe.getName();  
  
        System.out.println("Attribute Name:"+aName);  
  
    }  
  
    @Override  
  
    public void attributeRemoved(HttpSessionBindingEvent hsbe) {  
  
        System.out.println("Attribute removed from Session...");  
  
    }  
  
}
```

Note:

=>Add RequestListener.java and SessionListener.java to HttpSession tracking application.

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