

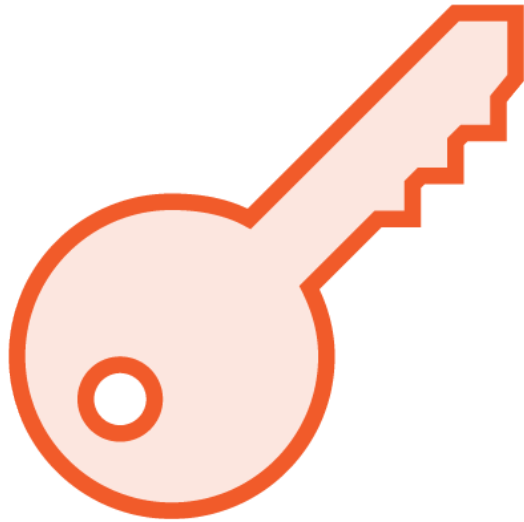
# Providing Servlet Metadata using Annotations

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- Servlet API 3 introduced Annotations
- `javax.servlet.annotation` package provides the annotation types
- Can replace XML configuration in `web.xml`
- Development will be easy

# Overview



- @WebServlet
- @WebInitParams
- @WebFilter

@WebServlet

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# @WebServlet

- Configuration in Web.xml file

```
<web-app>
<servlet>
<servlet-name>Hello</servlet-name>
<servlet-class>    HelloServlet
</servlet-class>
</servlet>
<servlet-mapping>
<servlet-name>Hello</servlet-name>
<url-pattern>/Hello</url-pattern>
</servlet-mapping>
</web-app>
```

- Using @WebServlet Annotation

```
@WebServlet{
    name="HelloServlet"
    Value="/Hello"
    urlPattern = "/Hello"
}

public class HelloServlet extends
    HttpServlet {

}
```

- @WebServlet  
Annotation
- -optional elements

- description
- displayName
- asyncSupported
- initParams
- loadOnStartup
- smallIcon
- largeIcon

# Demo



- @WebServlet

@WebInitParam

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# @WebInitParams

- Configuration in Web.xml file

```
<web-app>
<servlet>
<servlet-name>Hello</servlet-name>
<servlet-class>
com.pluralsight.demos.HelloServlet
</servlet-class>
<init-param>
<param-name>user</param-name>
<param-value>sekhar</param-value>
</init-param>

</servlet>
</web-app>
```

- Using @WebInitParam Annotation

```
@WebServlet(name="hello",
urlPatterns="/HelloServlet",
initParams={@WebInitParam(
name="user",value="sekhar")})
public class HelloServlet extends
    HttpServlet {

        .....

    String user =
        getServletConfig().getInitParameter ("user") ;
}
```

# Demo



- @WebInitParam

@WebFilter

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# @WebFilter

- Configuration in Web.xml file

```
<web-app>
<filter>
<filter-name>f1</filter-name>
<filter-class>MyFilter</filter-class>
</filter>

<filter-mapping>
<filter-name>f1</filter-name>
<url-pattern>/servlet1</url-pattern>
</filter-mapping>

</web-app>
```

- Using @WebFilter Annotation

```
@WebFilter(
    urlPatterns={"/MyFilter" ,
    "/ServletNames={"servlet1","servlet2"}" ,
    initParams={@WebInitParam(name="user",
    value="Nikhil")"servlet1"

    public class MyFilter implements
        Filter {
            ...
        }
```

# Demo



- @WebFilter