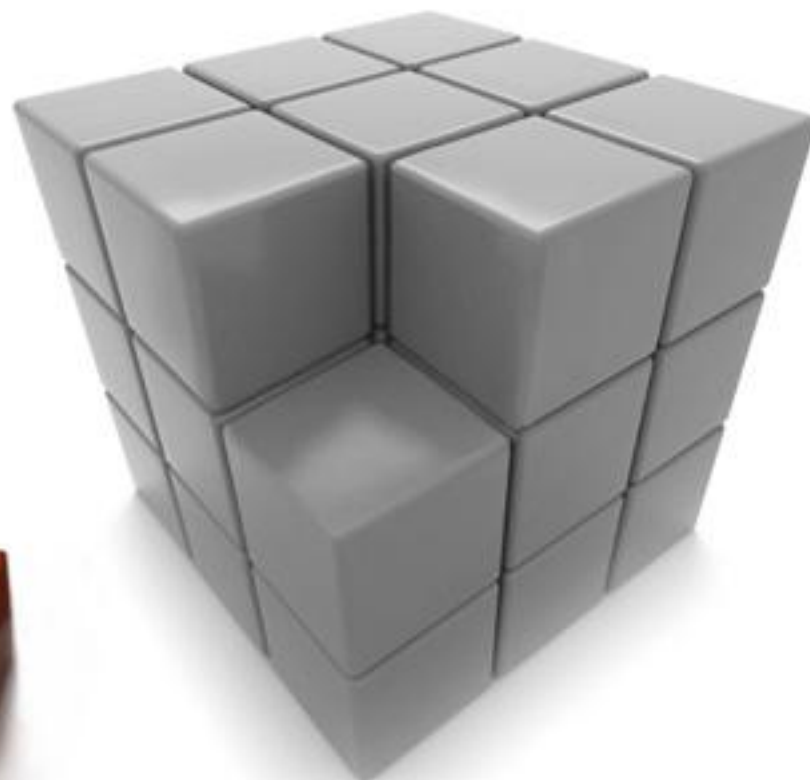




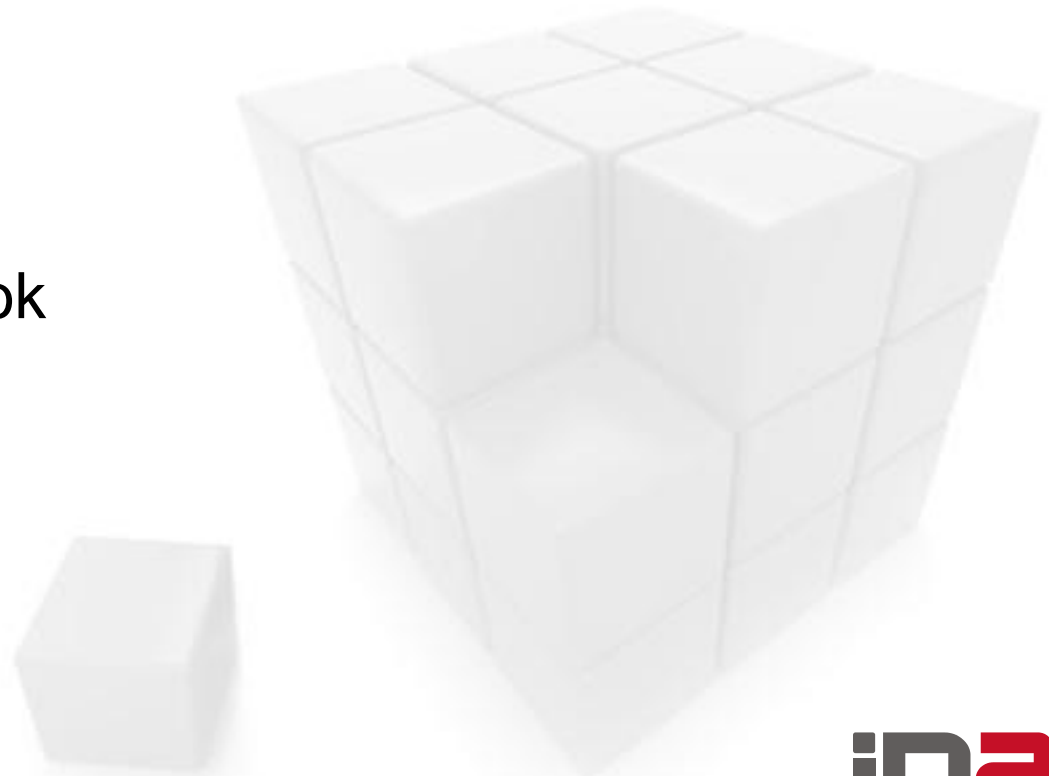
LIFERAY HOOK PLUGIN

Autor: Vesna Fuček



Sadržaj

- ❑ Liferay portal
- ❑ Što je hook?
- ❑ Kreiranje hooka
- ❑ Language hook
- ❑ JSP hook
- ❑ Portal properties hook
- ❑ Servis hook
- ❑ Servlet filter hook
- ❑ Zaključak
- ❑ Pitanja

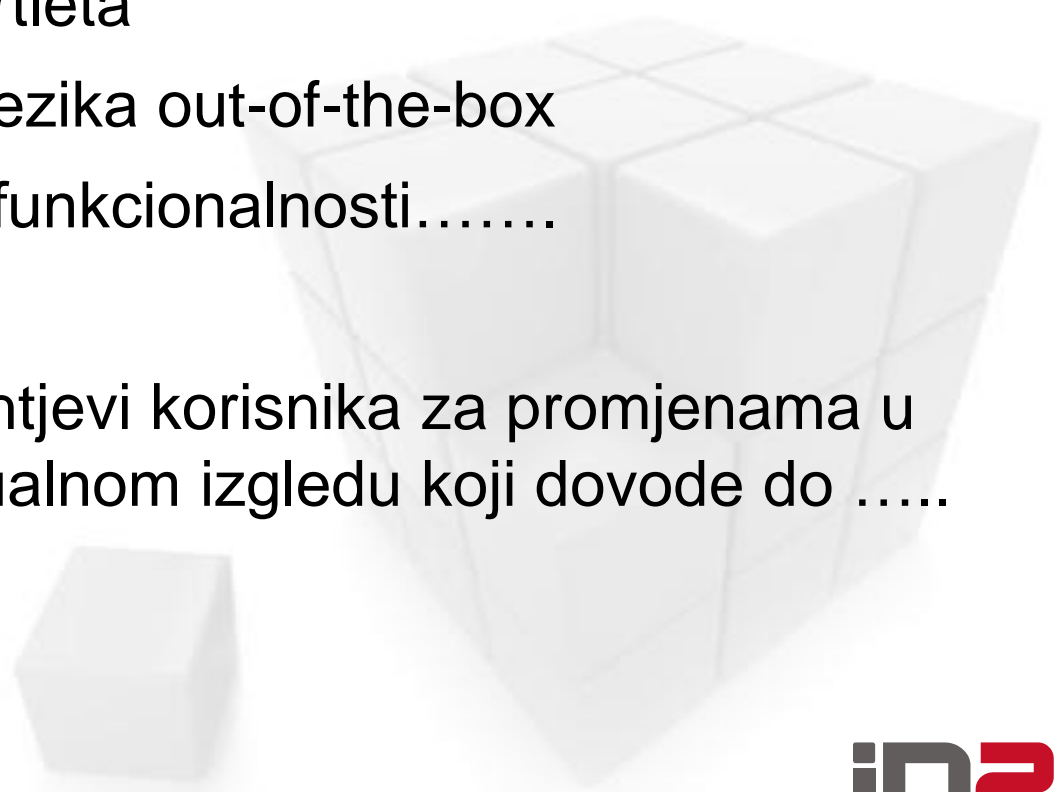


Liferay



- ❑ Vodeći portal za izradu web stranica i web aplikacija
- ❑ Upravljanje sadržajem i dokumentima
- ❑ Preko 60 gotovih portleta
- ❑ Podržava preko 34 jezika out-of-the-box
- ❑ i još mnogo gotovih funkcionalnosti.....

- ❑ Ali uvijek postoje zahtjevi korisnika za promjenama u funkcionalnosti i vizualnom izgledu koji dovode do

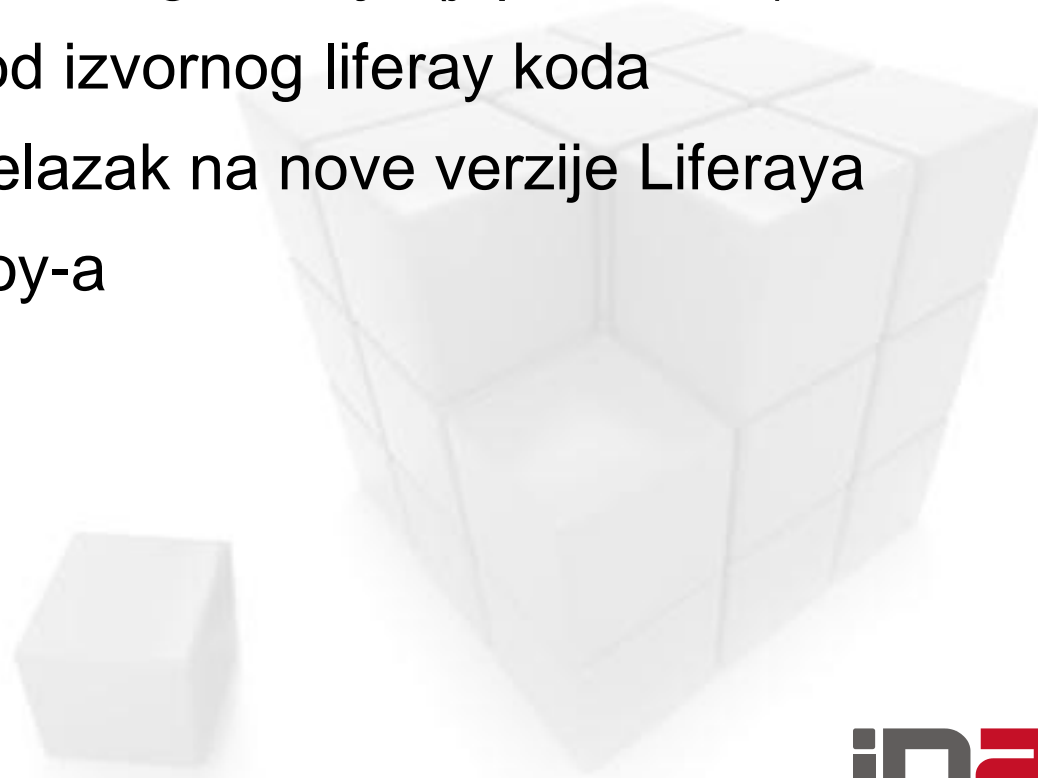




Što je hook?

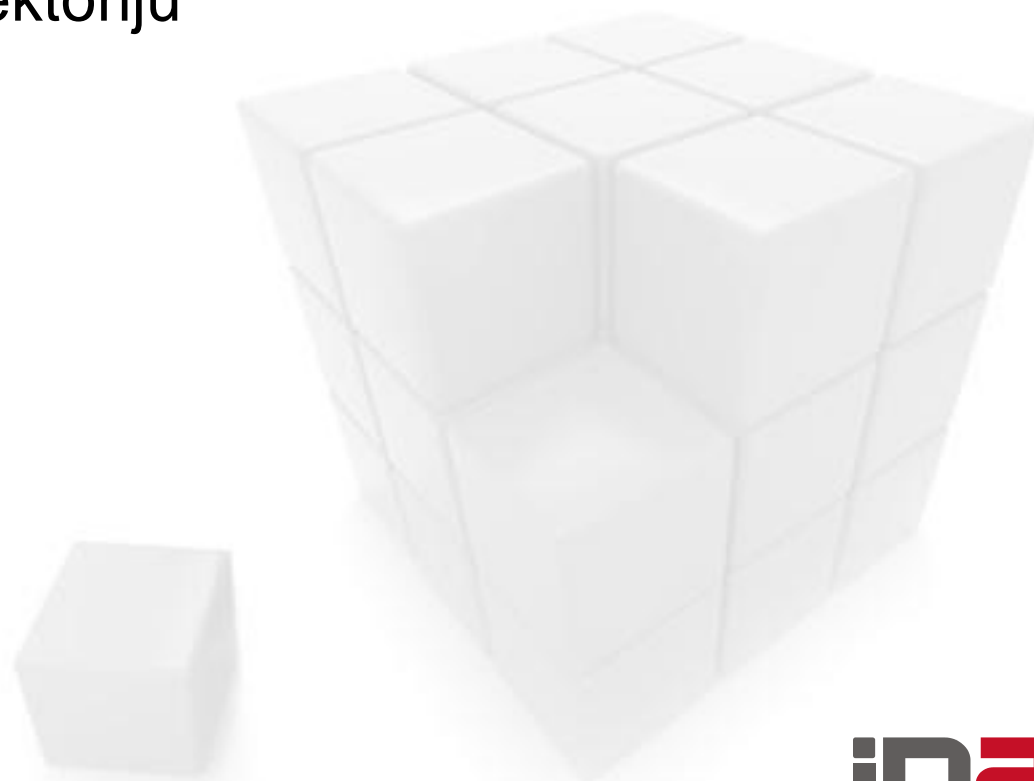


- ❑ Alat za prilagodbu ili nadogradnju Liferayove osnovne funkcionalnosti
- ❑ Alat za izmjenu korisničkog sučelja (jsp stranica)
- ❑ Vaš kod je odvojen od izvornog liferay koda
- ❑ Omogućava lakši prelazak na nove verzije Liferaya
- ❑ Mogućnost hot-deploy-a



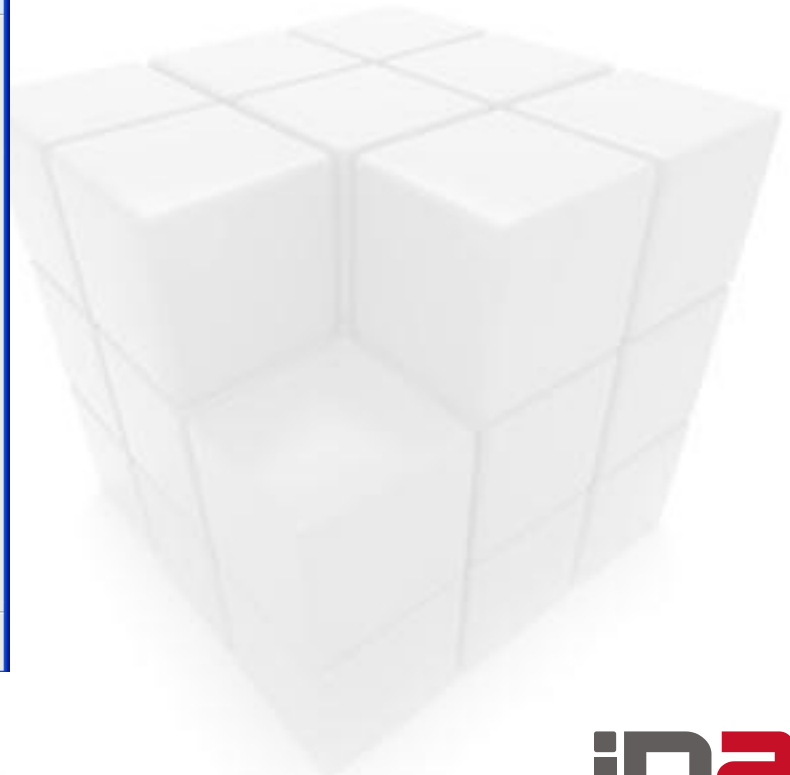
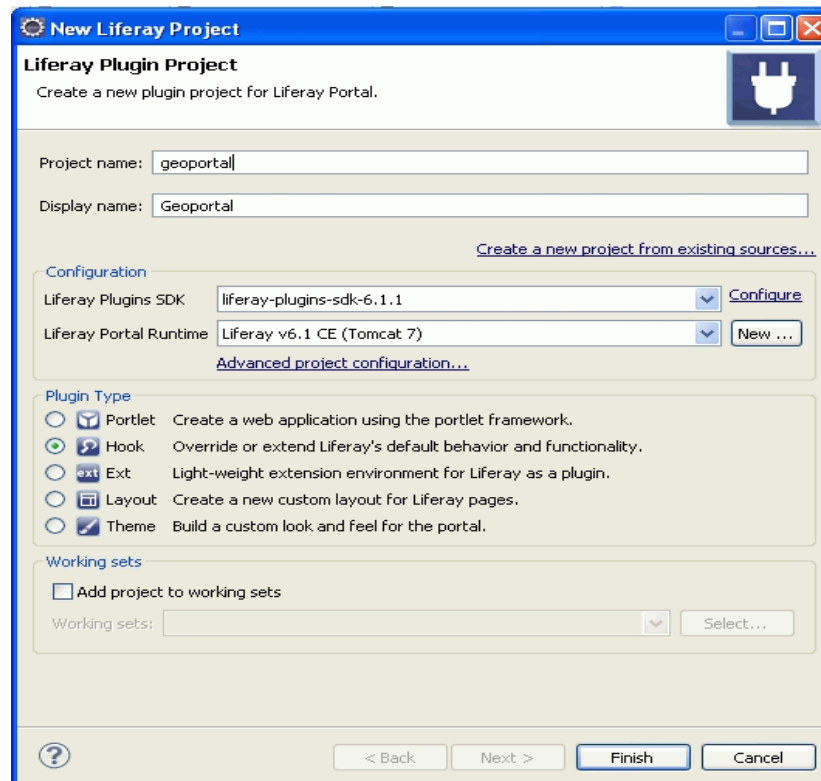
Kreiranje projekta

- ❑ Eclipse sa Liferay IDE dodatkom
- ❑ Projekt se kreira pomoću Plugins SDK
- ❑ Kreira se u hook direktoriju



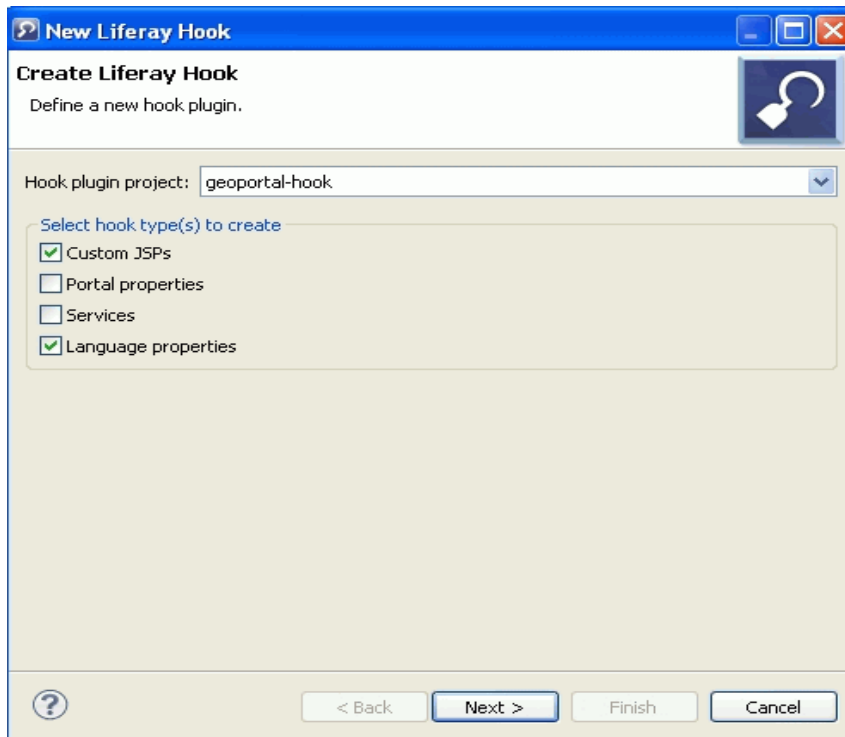
Kreiranje projekta

❑ File → New → Liferay project → Hook



Kreiranje hooka

- ❑ File → New → Liferay hook
- ❑ Jedan ili više hookova u jednom projektu



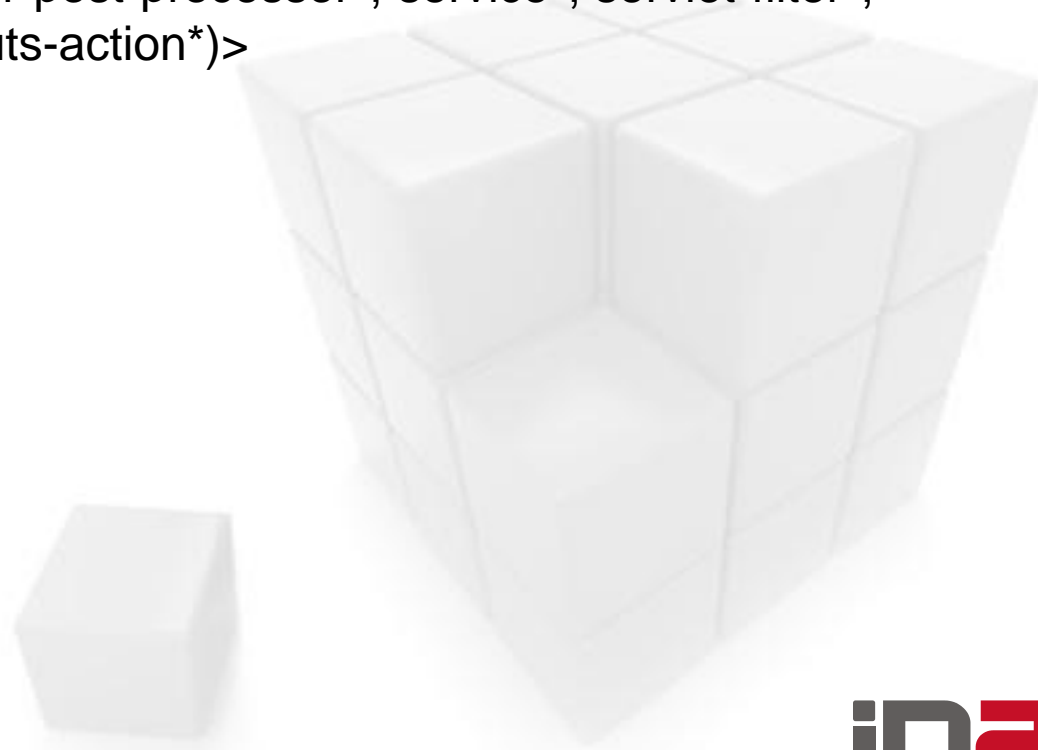
Glavni tipovi hooka:

- Jsp (custom-jsp-dir)
- Postavke portala (portal-properties)
- Servisi (service)
- Postavke jezika (language-properties)
- Servlet filter, struts actions, indexer post processor , application adapters

Kreiranje hooka

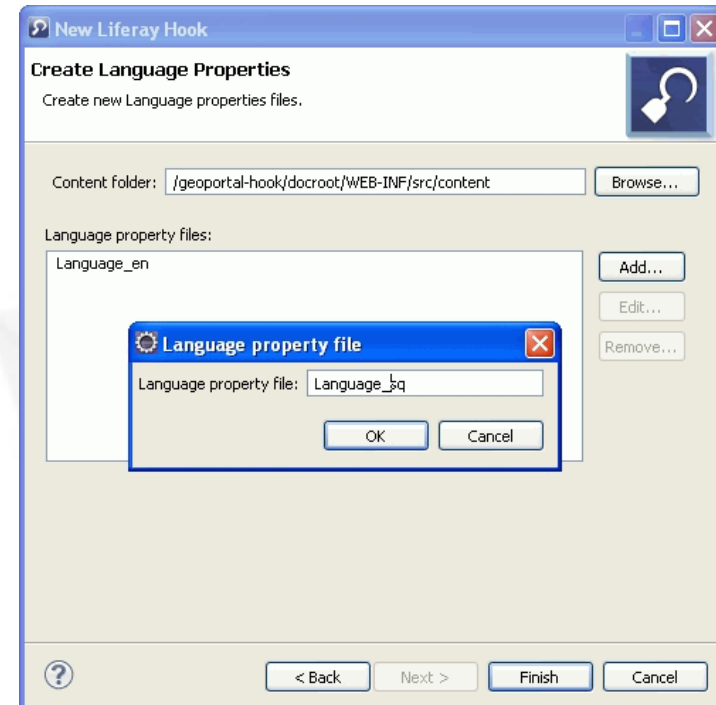
❑ `$PORTAL_ROOT_HOME/dtd/liferay-hook_6_1_0.dtd`

`<!ELEMENT hook (portal-properties?, language-properties*, custom-jsp-dir?, custom-jsp-global?, indexer-post-processor*, service*, servlet-filter*, servlet-filter-mapping*, struts-action*)>`



Language hook

- ❑ Instalacija novog jezika
npr. albanski Language_sq
- ❑ Izmjena postojećeg jezika
npr: message board →
forum

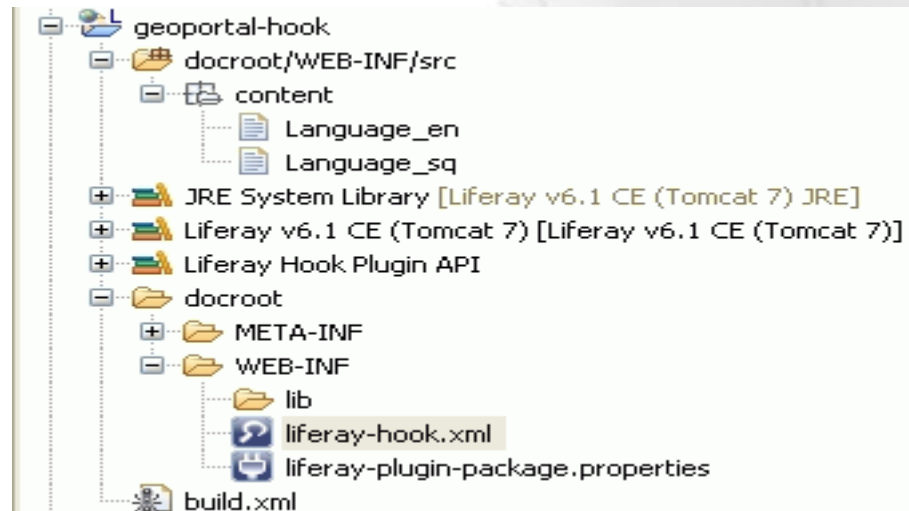


add-document=Add Document → add-document=New Document

Liferay-hook.xml



```
<?xml version="1.0"?>
<!DOCTYPE hook PUBLIC "-//Liferay//DTD Hook 6.1.0//EN"
"http://www.liferay.com/dtd/liferay-hook_6_1_0.dtd">
<hook>
    <language-properties>content/Language_sq</language-
properties>
    <language-properties>content/Language_en</language-
properties>
</hook>
```



JSP HOOK



- ❑ Prilagodba korisničkog sučelja liferayovih portleta kao što su npr. forum, asset publisher, blog...
- ❑ Promjena JSP stranica bez izravne promjene liferayovih jsp stranica
- ❑ Hookom se mogu prilagoditi JSP file, JSPF file, JavaScript file, CSS file ili slike.



Primjer:



❑ Login portlet – login.jsp

First Name (Required) 



Middle Name


Text Verification (Required)



Last Name

Screen Name (Required)

Email Address (Required)

[Sign In](#) [Forgot Password](#)

First Name (Required) 

  Refresh

This field is required.

Text Verification (Required)

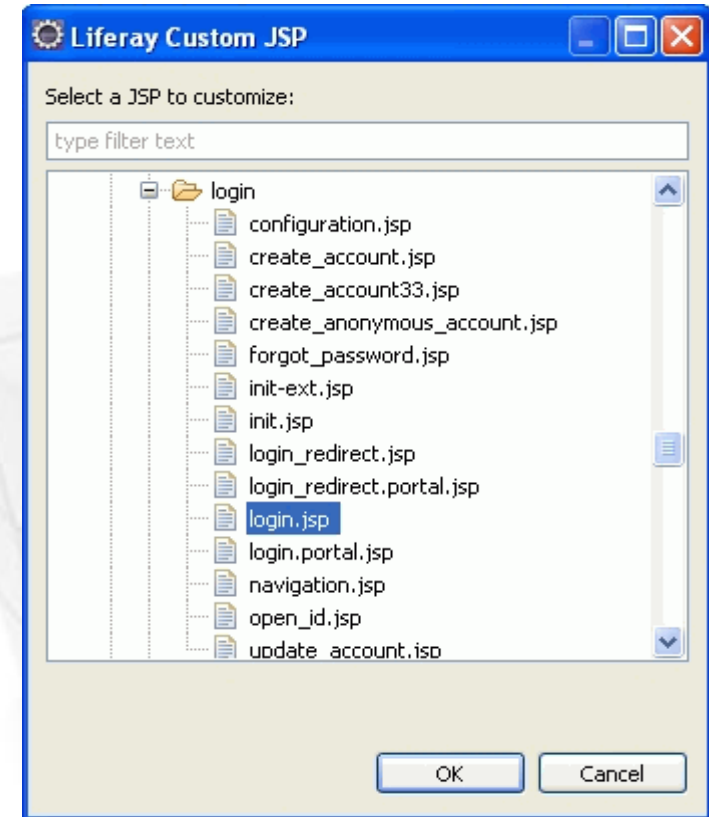
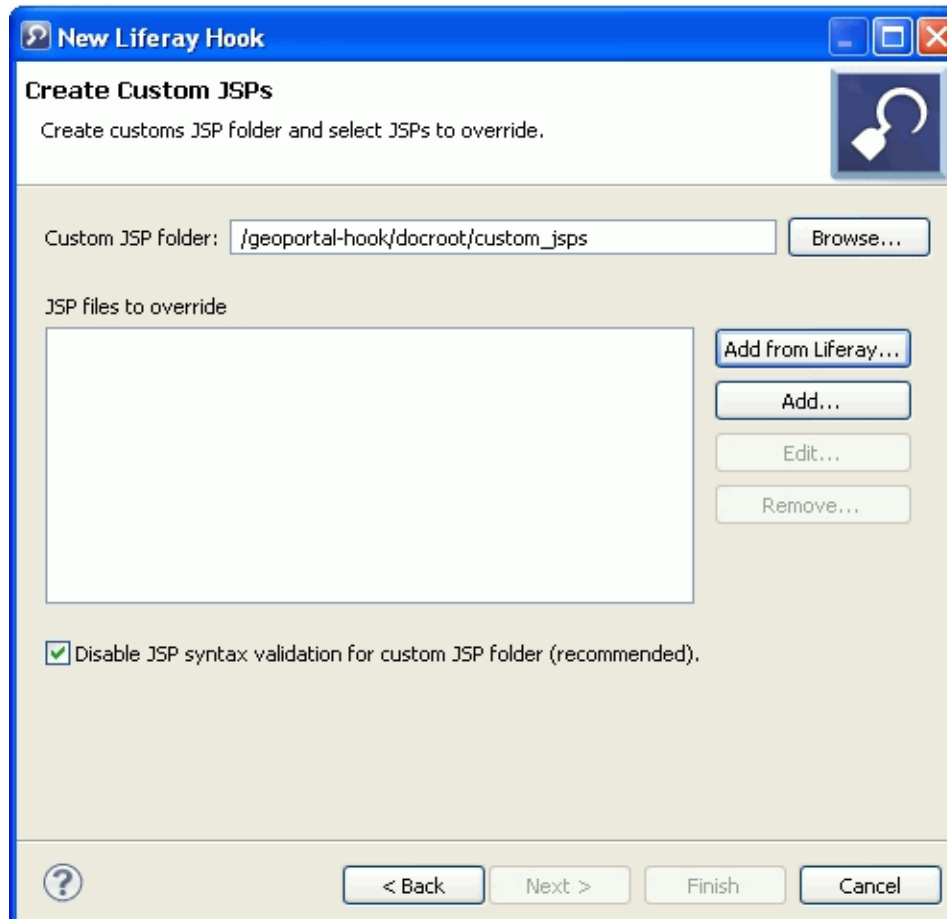
Last Name

Screen Name (Required)

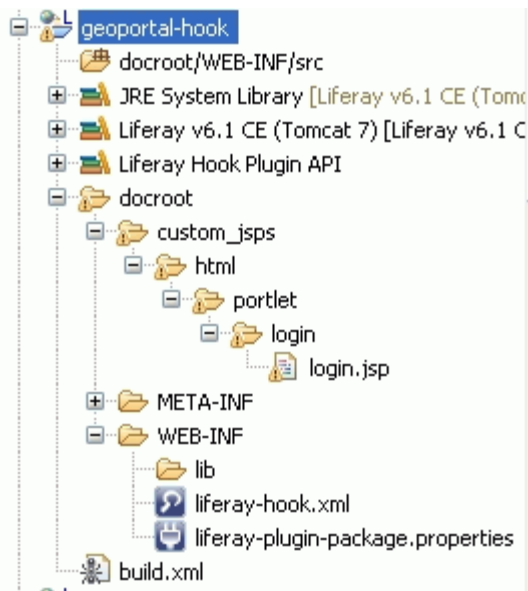
Email Address (Required)

[Sign In](#) [Forgot Password](#)

JSP Hook



JSP hook



```
liferay-hook.xml
<hook>
  <custom-jsp-dir>
    /custom_jsp
  </custom-jsp-dir>
</hook>
```

- ❑ Struktura direktorija mora odgovarati strukturi u liferay-portal-[version]/tomcat-[tomcat-version]/webapps/ROOT
- ❑ Undeploy hooka- prikazuje se originalna liferay jsp stranica

Portal properties hook

- ❑ Rekonfiguracija postavki portala
- ❑ portal.properties file u docroot/WEB-INF/src
- ❑ Liferay-hook.xml

```
<hook>
```

```
  <portal-properties>portal.properties</portal-properties>
```

```
</hook>
```

- ❑ Npr. promjena postavki kao što su:

```
javascript.fast.load=true
```

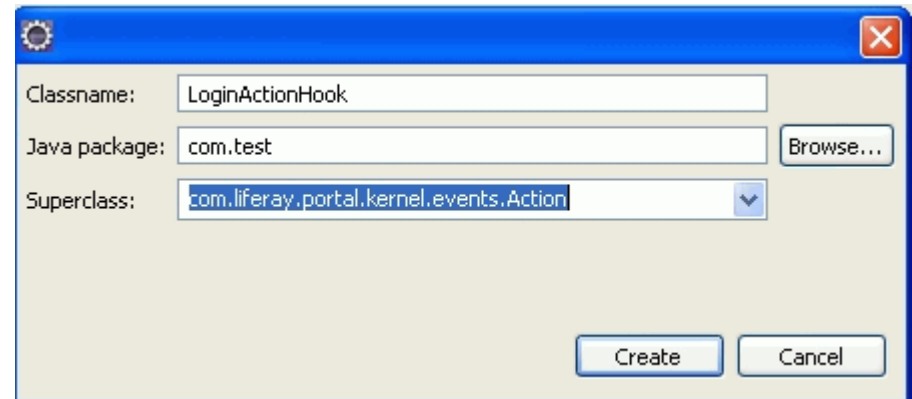
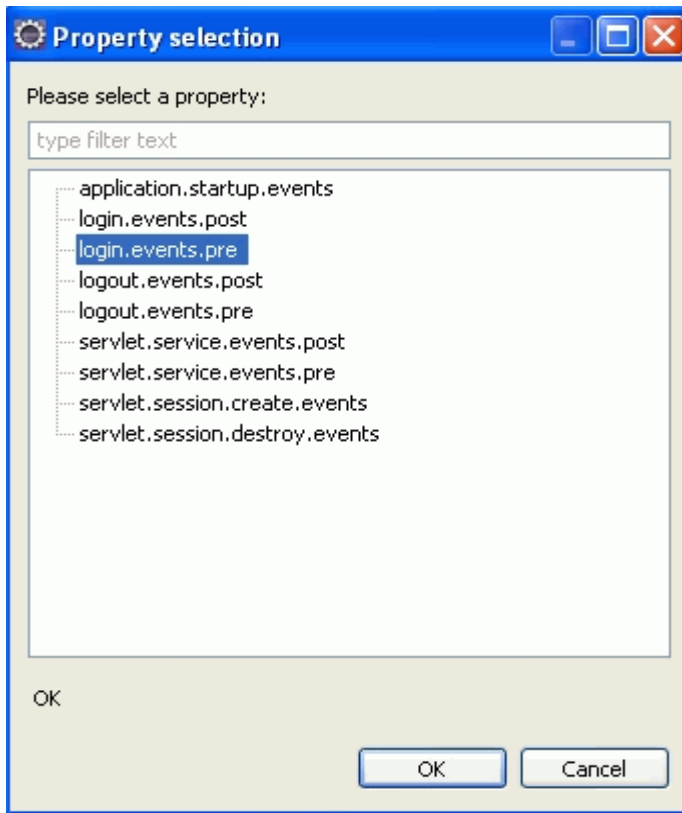
```
layout.user.private.layouts.auto.create=false
```

```
layout.user.private.layouts.enabled=false
```

```
terms.of.use.required=false
```


Custom portal action hook

- ❑ Aktiviranje prilagođenih akcija kod portalskih događaja



Login Action Hook

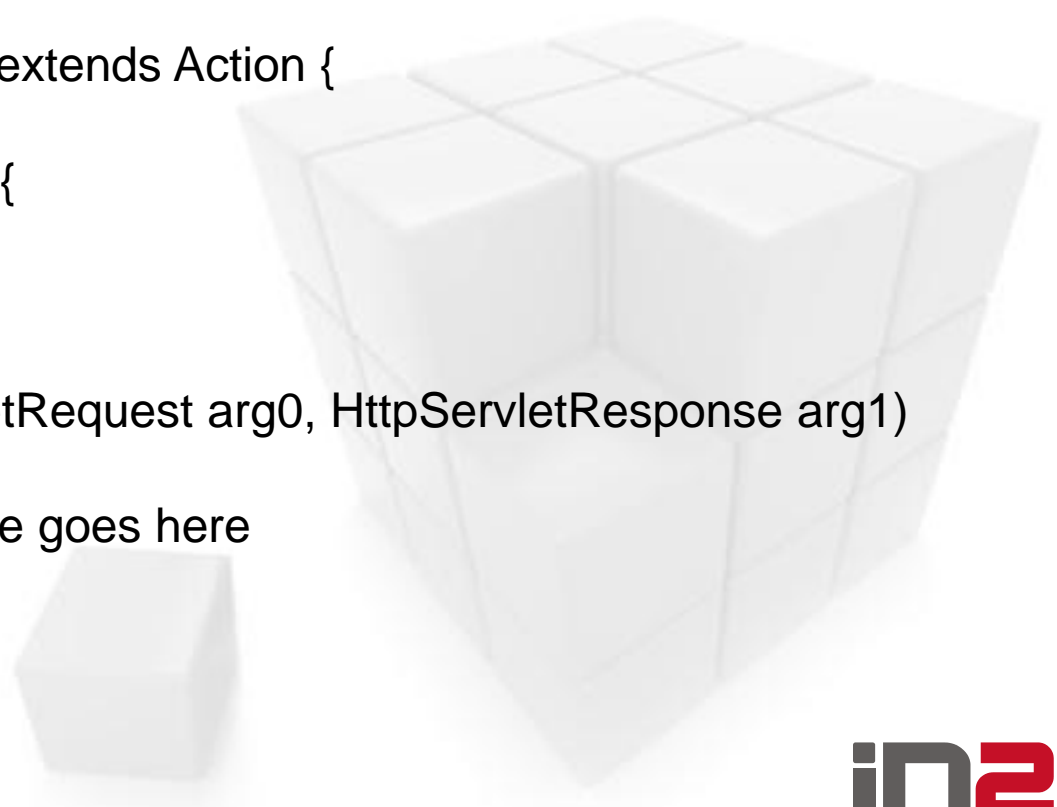


```
import com.liferay.portal.kernel.events.Action;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import com.liferay.portal.kernel.events.ActionException;
```

```
public class LoginActionHook extends Action {

    public LoginActionHook() {
        super();
    }

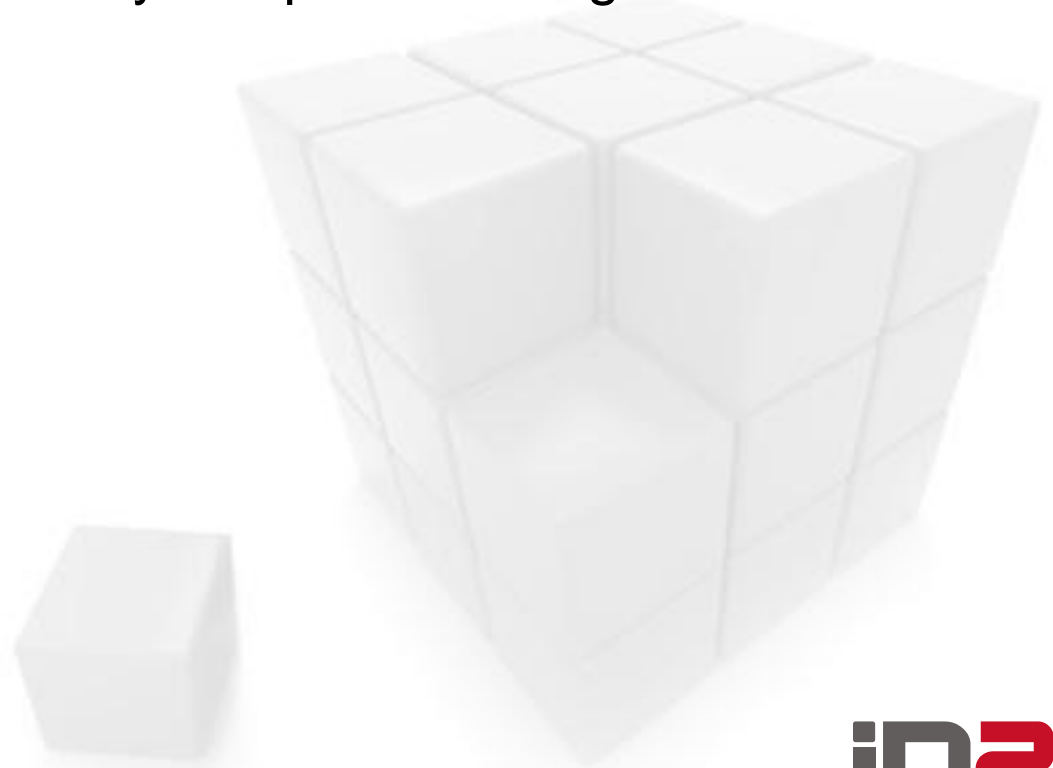
    public void run(HttpServletRequest arg0, HttpServletResponse arg1)
        throws ActionException {
        // TODO Your custom code goes here
    }
}
```



Login Action Hook



- ❑ U portal.properties dodana je linija
`login.events.pre=com.liferay.sample.hook.LoginActionHook`



Servis hook

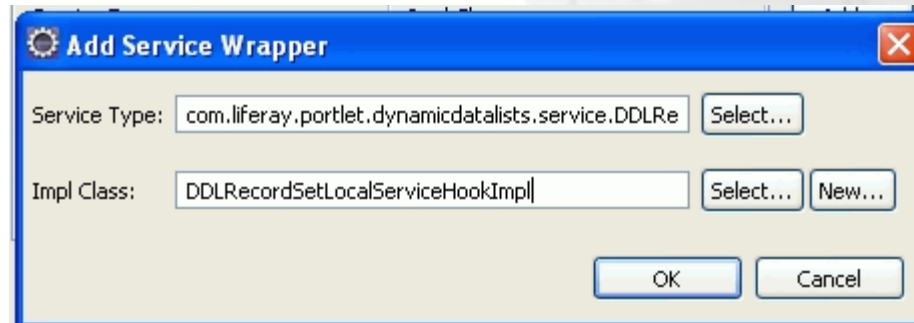
❑ Nadogradnja ili izmjena servisa

MBMessageService

PermissionLocalService

UserLocalService

GroupLocalService



Servis hook

- ❑ Override portal servisa

```
<hook>
  <service>
    <service-type>
      com.liferay.portlet.dynamicdatalists.service.
      DDLRecordSetLocalService
    </service-type>
    <service-impl>
      com.test.service.DDLRecordSetLocalServiceHookImpl
    </service-impl>
  </service>
</hook>
```

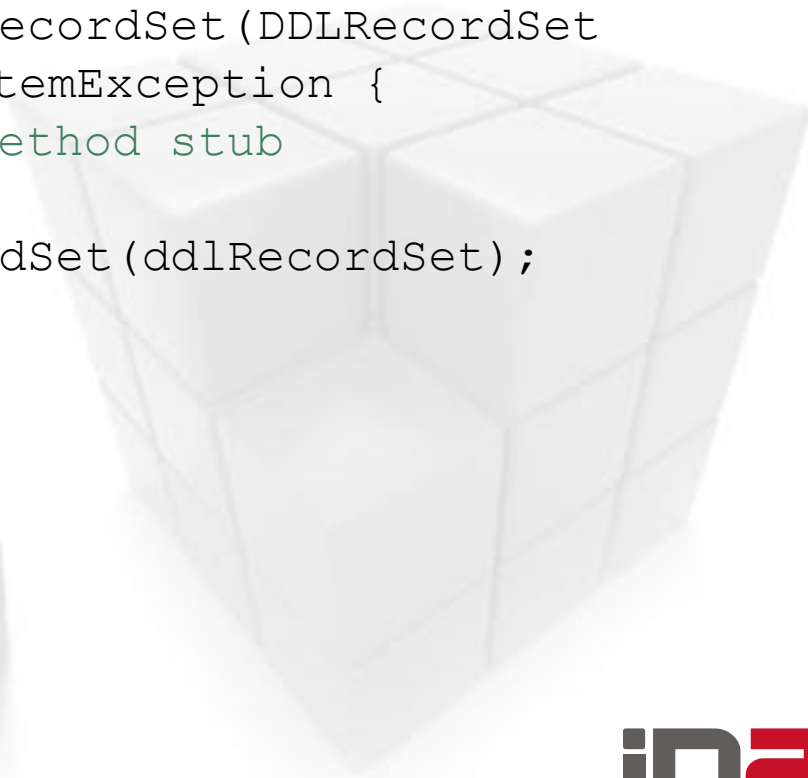


Servis hook



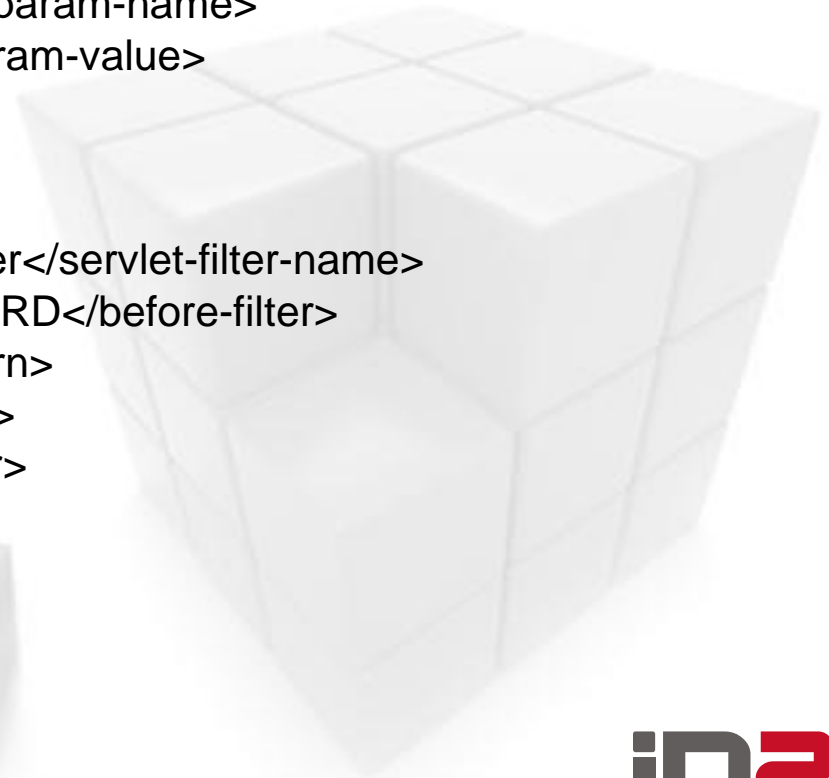
```
public class DDLRecordSetLocalServiceHookImpl extends
    DDLRecordSetLocalServiceWrapper {

    @Override
    public DDLRecordSet addDDLRecordSet(DDLRecordSet
ddlRecordSet) throws SystemException {
    // TODO Auto-generated method stub
    //Your code goes here
    return super.addDDLRecordSet(ddlRecordSet);
}
}
```



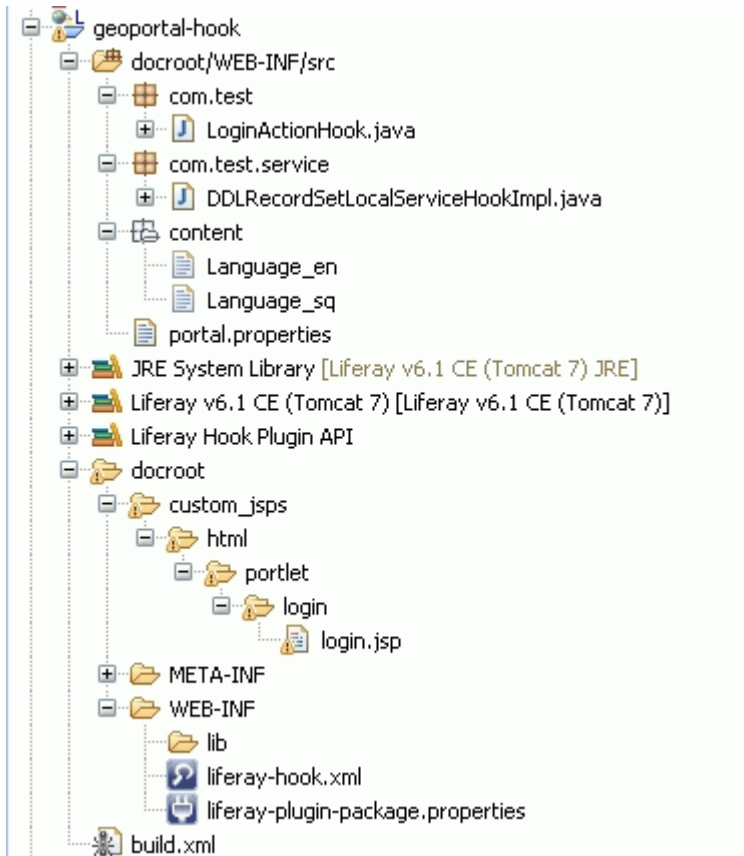
Servlet Filter Hook

```
<hook>
  <servlet-filter>
    <servlet-filter-name>OGC Proxy Filter</servlet-filter-name>
    <servlet-filter-impl>hr.in2.proxy.OgcServiceProxyFilter</servlet-filter-impl>
    <init-param>
      <param-name>proxyBaseURL</param-name>
      <param-value>/OgcService/</param-value>
    </init-param>
  </servlet-filter>
  <servlet-filter-mapping>
    <servlet-filter-name>OGC Proxy Filter</servlet-filter-name>
    <before-filter>Invoker Filter - FORWARD</before-filter>
    <url-pattern>/OgcService/*</url-pattern>
    <dispatcher>REQUEST</dispatcher>
    <dispatcher>FORWARD</dispatcher>
  </servlet-filter-mapping>
</hook>
```



Liferay hook plugin

□ Struktura projekta



Liferay hook plugin

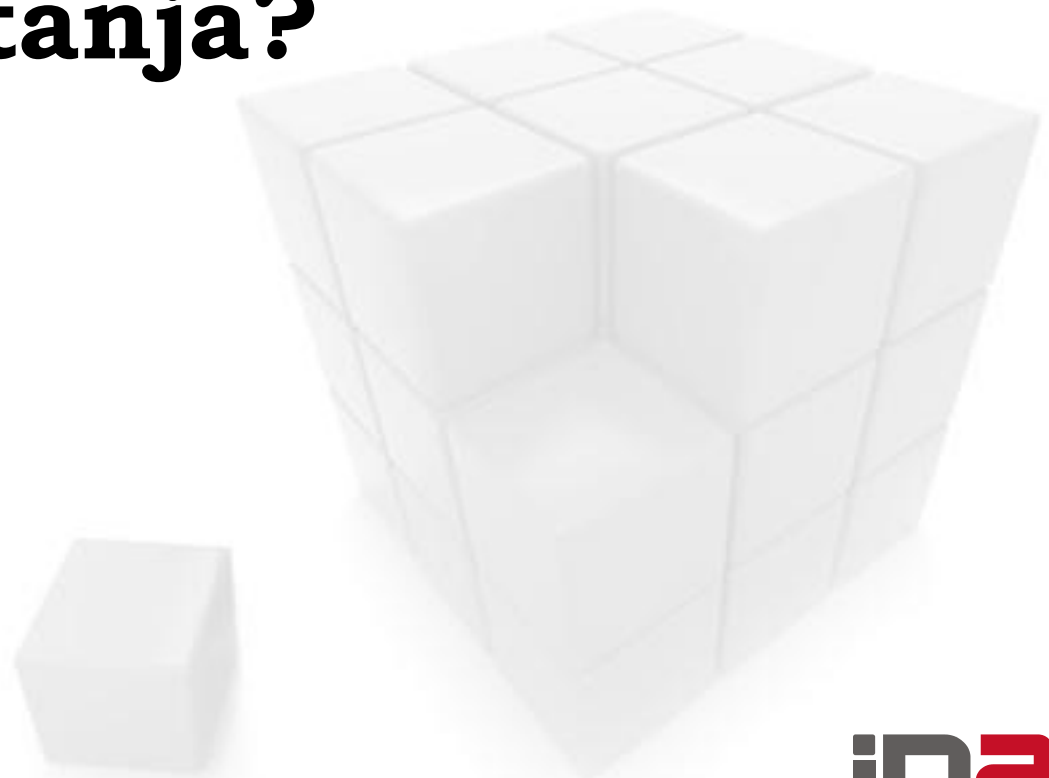
❑ Liferay-hook.xml

```
<?xml version="1.0"?>
<!DOCTYPE hook PUBLIC "-//Liferay//DTD Hook 6.1.0//EN"
http://www.liferay.com/dtd/liferay-hook\_6\_1\_0.dtd>
<hook>
  <portal-properties>portal.properties</portal-properties>
  <language-properties>content/Language_sq</language-properties>
  <language-properties>content/Language_en</language-properties>
  <custom-jsp-dir>/custom_jsps</custom-jsp-dir>
  <service>
    <service-type>
      com.liferay.portlet.dynamicdatalists.service.DDLRecordSetLocalService
    </service-type>
    <service-impl>
      com.test.service.DDLRecordSetLocalServiceHookImpl
    </service-impl>
  </service>
</hook>
```

Zaključak

- ❑ Alternativa hookovima - Ext-plugin
- ❑ Prednosti hooka :
 - hot-deploy
 - lakše održavanje i lakši prelazak na nove verzije liferaya
- ❑ Ext-plugin koristiti kad se hook ne može primijeniti
- ❑ Liferay hook -najbolji plugin za nadogradnju ili izmjenu liferay funkcionalnosti
- ❑ Može se koristiti za ispravak bug-ova

Pitanja?



in2

we think the way you need IT

IN2 d.o.o.

Marohničeva 1/1

10000 Zagreb, HR

tel: +385 1 6386 800

www.in2.hr

