



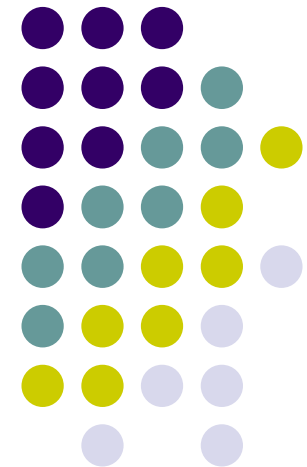
JBoss Seam

Next Generation Integration Framework

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Seam Framework



- JSF
- JPA
- EJB 3.0
- Ajax
- RichFaces
- A4J
- Drools
- iText PDF
- JFreeChart
- Facelet
- Security
- SSL
- Web Services
- Pojo
- IoC
- JBPM
- Hibernate
- Groovy
- Javascript
- Hibernate
- Localization
- Asynchronous
- Remoting
- Testing
- GWT
- Hibernate Search
- Mail
- Captcha
- JBoss Cache

Seam Framework

- Red Hat
- Exadel
- JBoss
- Hibernate
- Gavin King (Proje lideri)

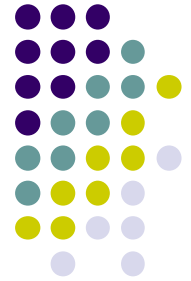




Neden Seam

- Tümleşik bir yapı
- Hızlı ve kolay geliştirme ortamı (JBoss Tools)
- Açık kaynak
- Ücretsiz (LGPL)
- Kolay entegrasyon (Spring, IceFaces, PrimeFaces ...)
- Ücretsiz geliştirme araçları (JBoss Tools)
- Kolay test edilebilirlik
- Farkli ortamlarda deployment desteği

Spring 1.0



Spring 2.0



Seam 2.0

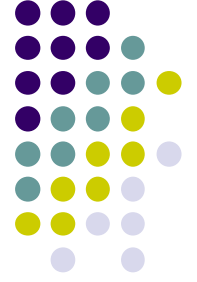


Geliştirme ortamı

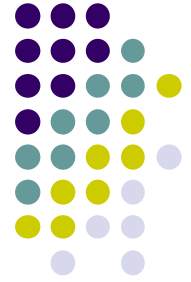
- Eclipse
- JBoss Tools
- Java 1.5 ve üzeri
- J2EE 1.5 ve üzeri



Geliřtirme ortamımızı kuralım



<http://www.melihsakarya.com/2008/11/jboss-seam-gelistirme-ortami-kurulumu/>



Desteklediği Ortamlar

- JBoss AS
- Websphere AS
- OC4J
- Weblogic
- Tomcat
- ...

Seam-gen

- Bizim için hazırlanan proje ortamı
- Code generation
- DB oriented code generation



Örnek projemizi oluřturalım



Seam User Interface Seenekleri



- Facelet
- JSF RI
- PrimeFaces
- Richfaces
- Ice Faces
- My Faces
- ...

JSF-Facelet ve Seam



- Template desteđi
- Kolay ve yetenekli EL (Expression Language)
- RichFaces
- Theme desteđi

Seam Component

@name("ornek")



Seam Context



- Event context
- Stateless context
- Session context
- Conversation context
- Application context
- Page context
- Business Process context

EJB 3.0

- Stateful
- Stateless
- Message Driven Bean





EJB tanımı

```
@Name("loginAction")
```

```
@Stateless
```

```
public class LoginAction implements Login {
```

```
    ...
```

```
}
```

JPA



- Annotation ile deklarasyon
 - @Entity
 - @Id
 - ...

CRUD Operasyonları

- Insert
- Update
- Delete
- Select



IoC (Inversion of Control)

- Injection
- Outjection
- Bijection



Ajax desteği

- A4J (Ajax for JSF)
- RichFaces

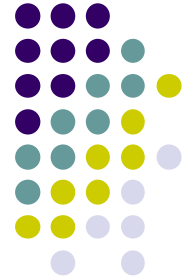


Seam JSF kontrolleri



```
<h:selectOneMenu value="#{kullanici.sehir}">  
  <s:selectItems value="#{sehir.resultList}" var="sehir" label="#{sehir.adi}" />  
  <s:convertEntity />  
</h:selectOneMenu>
```

Seam JSF kontrolleri



```
<s:div rendered="#{kullanici.yetki == 1}">  
  admin alanı  
</s:div>
```

Caching



```
<s:cache key="blog-#{blog.id}">
  <div class="blogEntry">
    <h3>#{blog.baslik}</h3>
    <div>
      <s:formattedText value="#{blog.icerik}"/>
    </div>
  </div>
</s:cache>
```

Caching

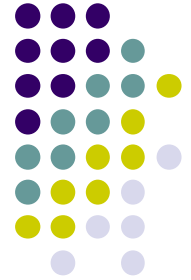


```
public void post() {  
    ...  
    entityManager.persist(blogEntry);  
    pojoCache.remove("anaSayfa", "blog-" + blog.getId() );  
}
```

EL (Expression Language)



```
<h:commandButton action="#{kullaniciAction.sil(kullanici)}"  
  value="Sil"/>
```



File upload

```
<s:fileUpload>
```

```
<h:form enctype="multipart/form-data">
```

```
<s:fileUpload id="picture" data="#{kayit.resim}"
```

```
accept="image/png" contentType="#{kayit.resimContentType}"
```

```
/>
```

Security - authentication



```
<security:identity authenticate-method=  
    "#{authenticator.authenticate}"/>
```

Authentication



```
@Name("authenticator")
public class Authenticator{
    @In Identity identity;
    public boolean authenticate() {
        if(identity.getUsername().equals("admin") &&
            identity.getPassword().equals("123456")){
            identity.addRole("admin");
            return true;
        }
        else
            return false;
    }
}
```

Security



```
<h:outputText value="test" rendered="#{not identity.loggedIn}">
```

```
<h:outputLink action="#{reports.listManagerReports}" rendered="#{s:hasRole('manager')}">  
    Yönetici
```

```
</h:outputLink>
```

Security



```
@Restrict("#{s:hasRole('admin')}")  
    public void delete() {  
        ...  
    }
```

Security



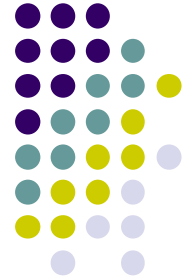
```
public void deleteCustomer() {  
    Identity.instance().checkRestriction("#{s:hasPermission('customer  
, 'delete', selectedCustomer)}");  
}
```

PDF



```
<p:document xmlns:p="http://jboss.com/products/seam/pdf"
  title="Hello">
  <p:chapter number="1">
    <p:title><p:paragraph>Hello</p:paragraph></p:title>
    <p:paragraph>Hello </p:paragraph>
  </p:chapter>
  <p:chapter number="2">
    <p:title><p:paragraph>Goodbye</p:paragraph></p:title>
    <p:paragraph>Goodbye.</p:paragraph>
  </p:chapter>
</p:document>
```

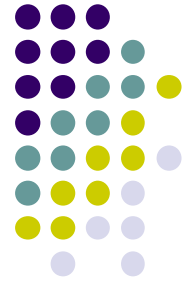
PDF



- ## Components.xml

- `<pdf:document-store use-extensions="true" error-page="/pdfMissing.seam" />`
- `xmlns:pdf=http://jboss.com/products/seam/pdf`
- `http://jboss.com/products/seam/pdf http://jboss.com/products/seam/pdf-2.0.xsd`

PDF



- **web.xml**

```
<servlet>
  <servlet-name>Document Store Servlet</servlet-name>
  <servlet-class>org.jboss.seam.pdf.DocumentStoreServlet</servlet-
class>
</servlet>

<servlet-mapping>
  <servlet-name>Document Store Servlet</servlet-name>
  <url-pattern>*.pdf</url-pattern>
</servlet-mapping>
```

PDF

- WEB-INF\lib\
● itext.jar



Grafik Chart

- WEB-INF\lib
 - jfreechart.jar
 - jcommon.jar



Grafik Chart



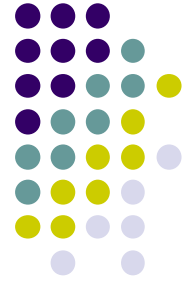
```
<p:piechart title="Parite" circular="false" direction="anticlockwise"
  startAngle="30" labelGap="0.1" labelLinkPaint="red">
  <p:series key="Prices">
    <p:data key="2003" columnKey="2003" value="7.36" />
    <p:data key="2004" columnKey="2004" value="11.50" />
    <p:data key="2005" columnKey="2005" value="34.625" />
    <p:data key="2006" columnKey="2006" value="76.30" />
    <p:data key="2007" columnKey="2007" value="85.05" />
  </p:series>
</p:piechart>
```

HTML Grafik Chart



```
<p:piechart title="Parite" circular="false" direction="anticlockwise"
  startAngle="30" labelGap="0.1" labelLinkPaint="red">
  <p:series key="Prices">
    <p:data key="2003" columnKey="2003" value="7.36" />
    <p:data key="2004" columnKey="2004" value="11.50" />
    <p:data key="2005" columnKey="2005" value="34.625" />
    <p:data key="2006" columnKey="2006" value="76.30" />
    <p:data key="2007" columnKey="2007" value="85.05" />
  </p:series>
</p:piechart>
```

Remoting



- Seam componentlerine client side erişim sağlar
- DWR benzeri bir mimari sunar
- Javascript ile erişim yapabilirsiniz

Remoting



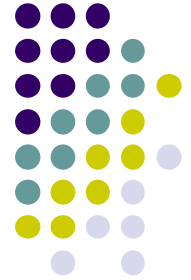
```
<script type="text/javascript"  
  src="seam/resource/remoting/resource/remote.js"></script>  
<s:remote include="test"/>
```

Remoting



```
<script type="text/javascript">
  //
  function deneme() {
    var name = prompt("Adınız Nedir ?");
    Seam.Component.getInstance("test").demo(deneme,demoCallback);
  }
  function deneme(result) {
    alert(result);
  }
  // ]]&gt;
&lt;/script&gt;</pre></div>
```

Remoting



```
@Stateless
```

```
@Name("test")
```

```
public class TestAction implements Test {  
    public String demo(String isim){  
        return "adınız = " + isim;  
    }  
}
```

Remoting



@Local

```
public interface Test {  
    @WebRemote  
    public String demo(String isim);  
}
```

Seam Validation



```
public class Adres {  
    private String sehir;  
    private String postaKodu;  
  
    @NotNull  
    @Length(max=30)  
    public String getSehir() { return sehir; }  
    public void setSehir(String sehir) { this.sehir = sehir; }  
  
    @NotNull  
    @Length(max=6)  
    @Pattern("^\\d*$")  
    public String getPostaKodu() { return postaKodu; }  
    public void setPostaKodu(String postaKodu) { this.postaKodu =  
        postaKodu; }  
}
```

Mail



```
<m:message xmlns="http://www.w3.org/1999/xhtml"
  xmlns:m="http://jboss.com/products/seam/mail"
  xmlns:h="http://java.sun.com/jsf/html">
```

```
<m:from name="Melih Sakarya" address="melih.sakarya@gmail.com" />
<m:to name="{kullanici.ad} {kullanici.soyad}">#{kullanici.mail}</m:to>
<m:subject>Deneme mesaji</m:subject>
```

```
<m:body>
```

```
<p>Merhaba {kullanici.ad},</p>
```

```
<p>Bu mail seam ile gonderilmistir.
```

```
<a href="http://www.melihsakarya.com">www.melihsakarya.com</a></p>
```

```
</m:body>
```

```
</m:message>
```

Mail Configuration

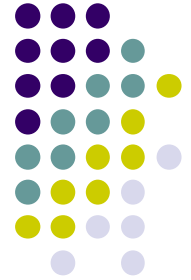


components.xml

```
<components xmlns="http://jboss.com/products/seam/components"
  xmlns:core="http://jboss.com/products/seam/core"
  xmlns:mail="http://jboss.com/products/seam/mail">

  <mail:mail-session host="smtp.testsite.com.tr"
    password="123456" port="25" username="msakarya" />
</components>
```

Mail facadelet rendering



```
@In(create=true)
private Renderer renderer;
public void gonder() {
    try {
        renderer.render("/mailOrnek.xhtml");
        facesMessages.add("Email basari ile gonderildi");
    }
    catch (Exception e) {
        facesMessages.add("mesaj gonderilemedi: " + e.getMessage());
    }
}
```

Birden çok kişiye gönderim



```
<ui:repeat value="#{tumKullanici} var="kullanici">  
  <m:to name="#{kullanici.ad} #{kullanici.soyad}" address="#{kullanici.mail}"  
  />  
</ui:repeat>
```

Birden çok mail gönderimi



```
<ui:repeat value="{kullanici}" var="k">  
  <m:message>  
    <m:from name="{gonderen.ad}  
    {gonderen.soyad}">{gonderen.mail}</m:from>  
    <m:to name="{k.ad}">{k.adres}</m:to>  
    ...  
  </m:message>  
</ui:repeat>
```

Alternatif mail



```
<m:body>
```

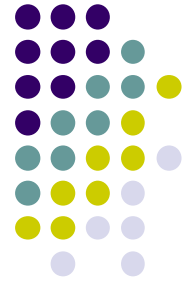
```
  <f:facet name="alternative">
```

Bu maili okuyamıyorsanız www.melihsakarya.com adresini ziyaret ediniz.

```
  </f:facet>
```

```
</m:body>
```

Mail Attachment



```
<m:attachment value="#{kullanici.foto}"  
contentType="image/png" fileName="foto.jpg"/>
```

Birden çok dosya

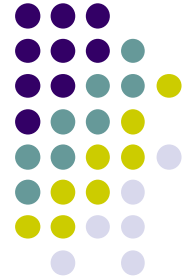


```
<ui:repeat value="#{kullanici}" var="kullanici">
```

```
    <m:attachment value="#{kullanici.foto}" contentType="image/jpeg"  
    fileName="#{kullanici.ad}_#{kullanici.soyad}.jpg"/>
```

```
</ui:repeat>
```

Mail Pdf Attachment



```
<m:attachment fileName="test.pdf">  
  <p:document>  
    test test test  
  </p:document>  
</m:attachment>
```

Diđer email zellikleri

- Mail okuma
- Farklı header lar ekleme
- Internationalisation
- Templating



Son

Teşekkürler 😊

