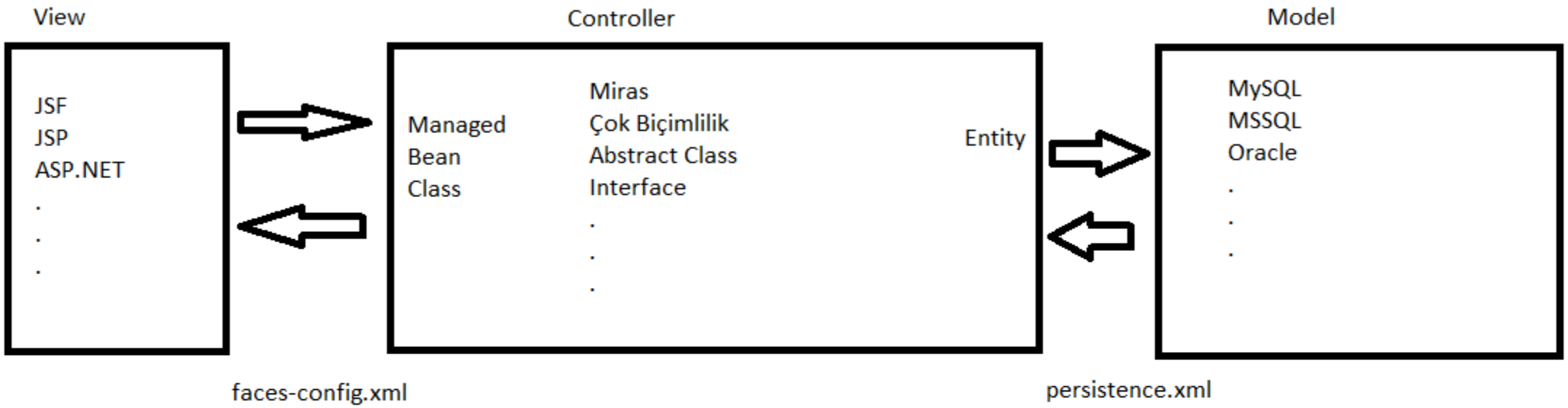
Web Programlama Dersi 1. Hafta

Dr. Öğretim Üyesi Sinan TOKLU

MVC Genel Bakış



Hibernate Eklenecek
Annotation Kullanılacak
Thir-Party Tool'lardan Sadece Primefaces Kullanılacak
Bütün Bu Konular İlk 7 Haftada Anlatılacak Ve Sonra İse Asp.Net MVC Anlatılacaktır.

JSF(Java Server Faces)

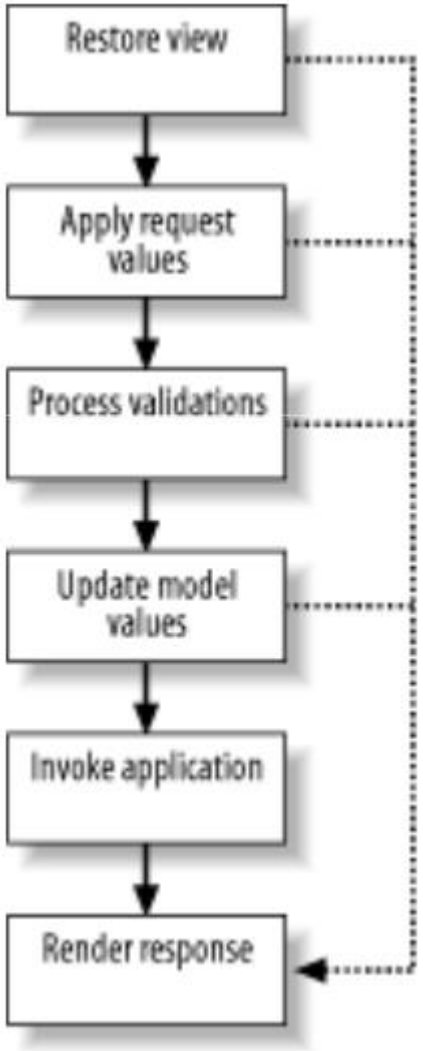
- Açılımı Java Server Faces
- MVC (Model-View-Controller)
- JSR Standartı (JSR-127, JSR 252)
- Component Oriented
- Event Driven
- Farklı JSF implementasyonları
- 3. parti JSF bileşenleri (PrimeFaces, Ice Faces, RichFaces, OpenFaces ...)

JSR 127 – JSF 1.1
JSR 252 – JSF 1.2
JSR 314 – JSF 2.0

JSF(Java Server Faces)

- Standart olması.
- Kolay ve anlaşılabilir olması.
- RAD desteği.
- Bileşen mimarisinin kolaylığı.
- Farklı grupların bileşen desteği.
- Gelişmiş EL (Expression Language desteği).
- Karmaşık uygulamaları daha kolay geliştirme.

JSF(Java Server Faces)



JSF(Java Server Faces)

HTML Bileşenleri		
h:form	h:commandButton	h:selectManyMenu
h:inputText	h:commandLink	h:panelGrid
h:inputTextArea	h:message	h:panelGroup
h:inputSecret	h:messages	h:dataTable
h:inputHidden	h:grapicImage	h:column
h:outputLabel	h:selectOneListbox	h:selectManyCheckbox
h:outputLink	h:selectOneMenu	h:selectManyListbox
h:outputFormat	h:selectOneRadio	
h:outputText	h:selectBooleanCheckbox	

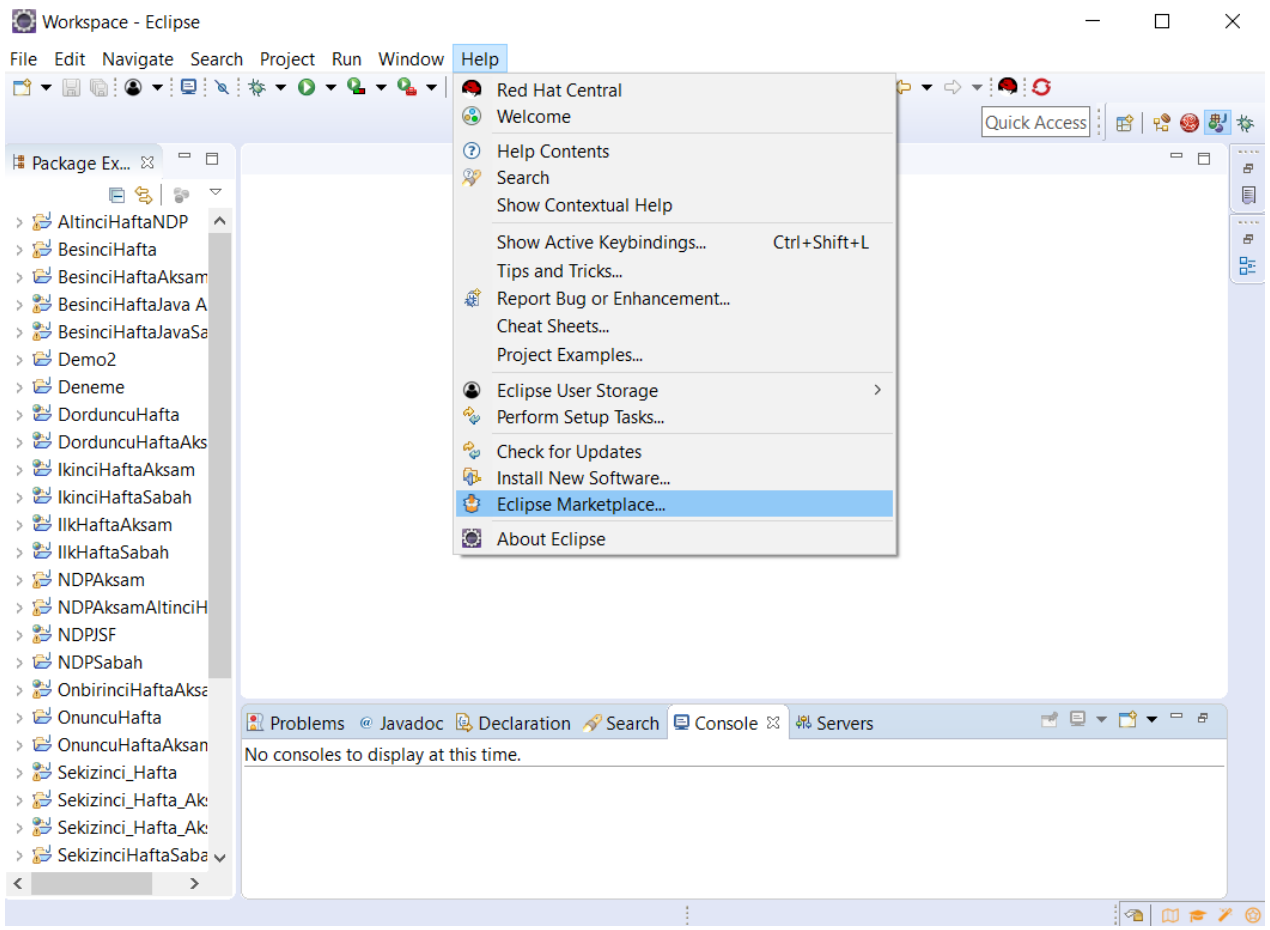
JSF(Java Server Faces)

Core Bileşenler		
f:view	f:convertDateTime	f:verbatim
f:subview	f:convertNumber	
f:facet	f:validator	
f:attribute	f:validateDoubleRange	
f:param	f:validateLength	
f:actionListener	f:validateLongRange	
f:valueChangeListener	f:loadBundle	
f:setPropertyChangeListener	f:selectitems	
f:converter	f:selectitem	

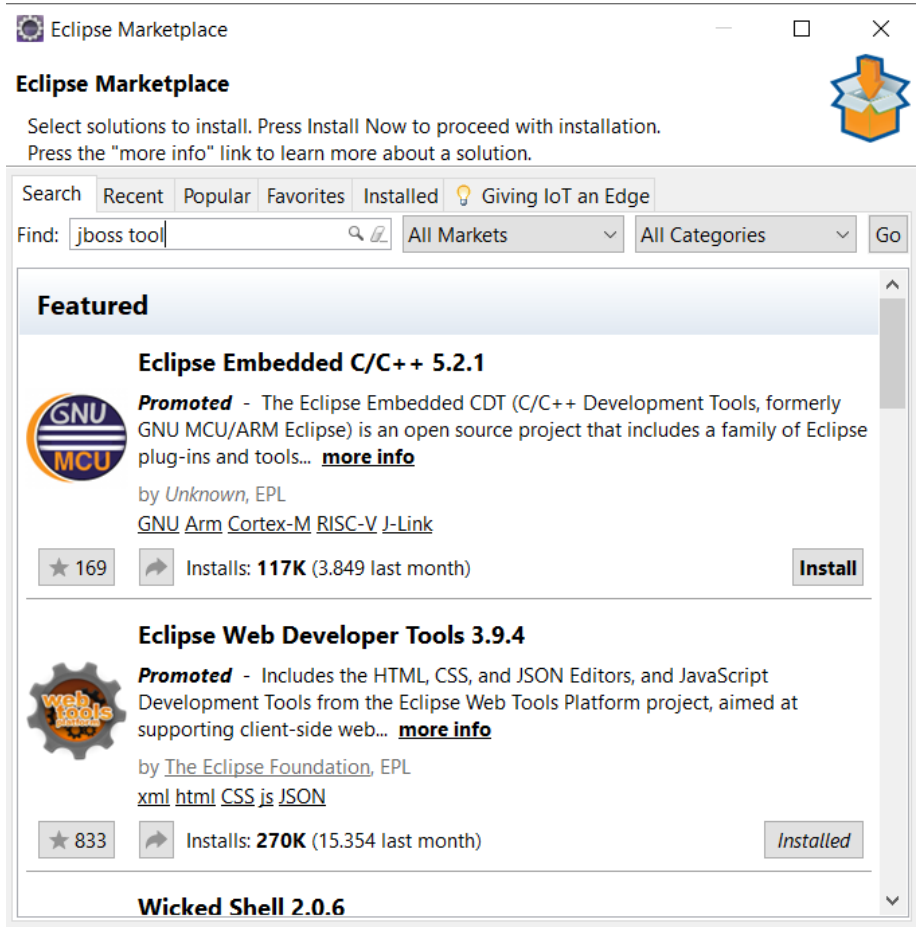
Kurulum İçin Gerekli Araçlar

- Eclipse
- Apache Tomcat
- MySQL
- MySQL Query Browser

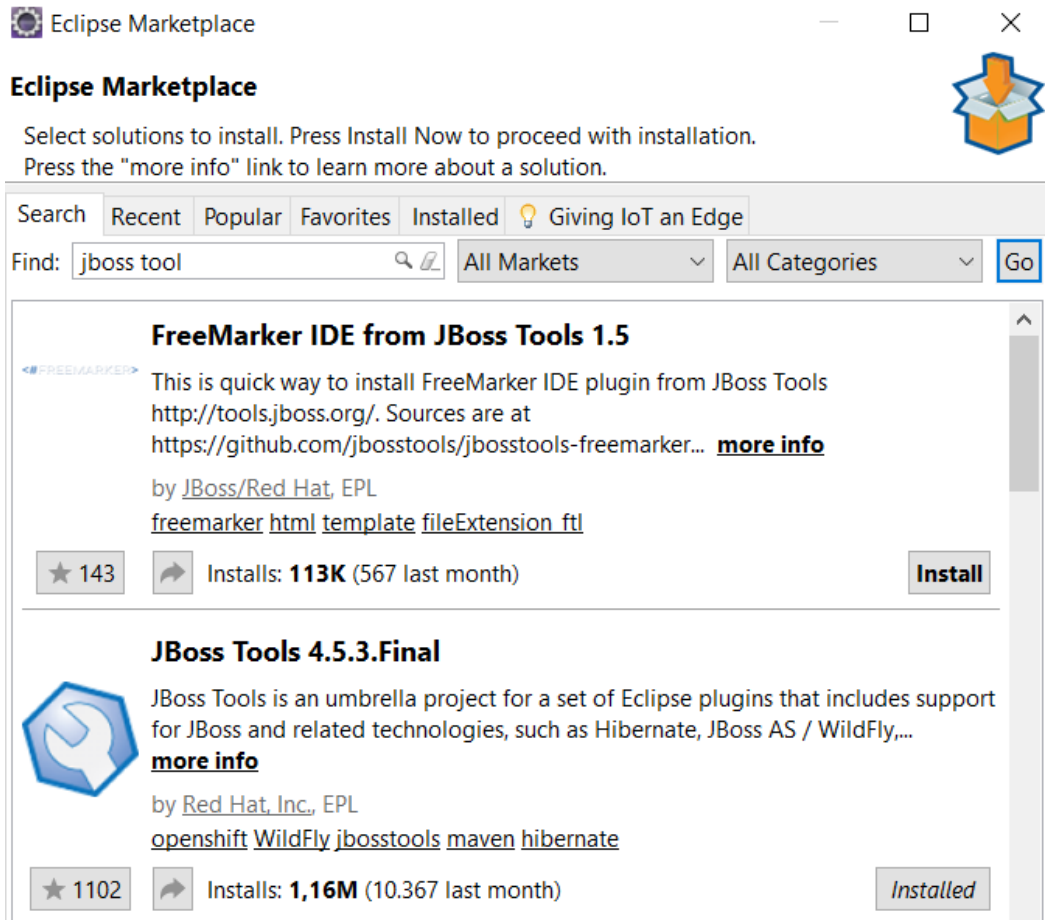
Kurulum


Workspace - Eclipse
File Edit Navigate Search Project Run Window Help
Red Hat Central
Welcome
Help Contents
Search
Show Contextual Help
Show Active Keybindings... Ctrl+Shift+L
Tips and Tricks...
Report Bug or Enhancement...
Cheat Sheets...
Project Examples...
Eclipse User Storage
Perform Setup Tasks...
Check for Updates
Install New Software...
Eclipse Marketplace...
About Eclipse
Quick Access
Package Ex...
AltinciHaftaNDP
BesinciHafta
DordunculHafta
IkinciHaftaAksam
IkinciHaftaSabah
IlkHaftaAksam
IlkHaftaSabah
NDPAksam
NDPJSF
NDPSabah
OnuncuHafta
Problems Javadoc Declaration Search Console Servers
No consoles to display at this time.

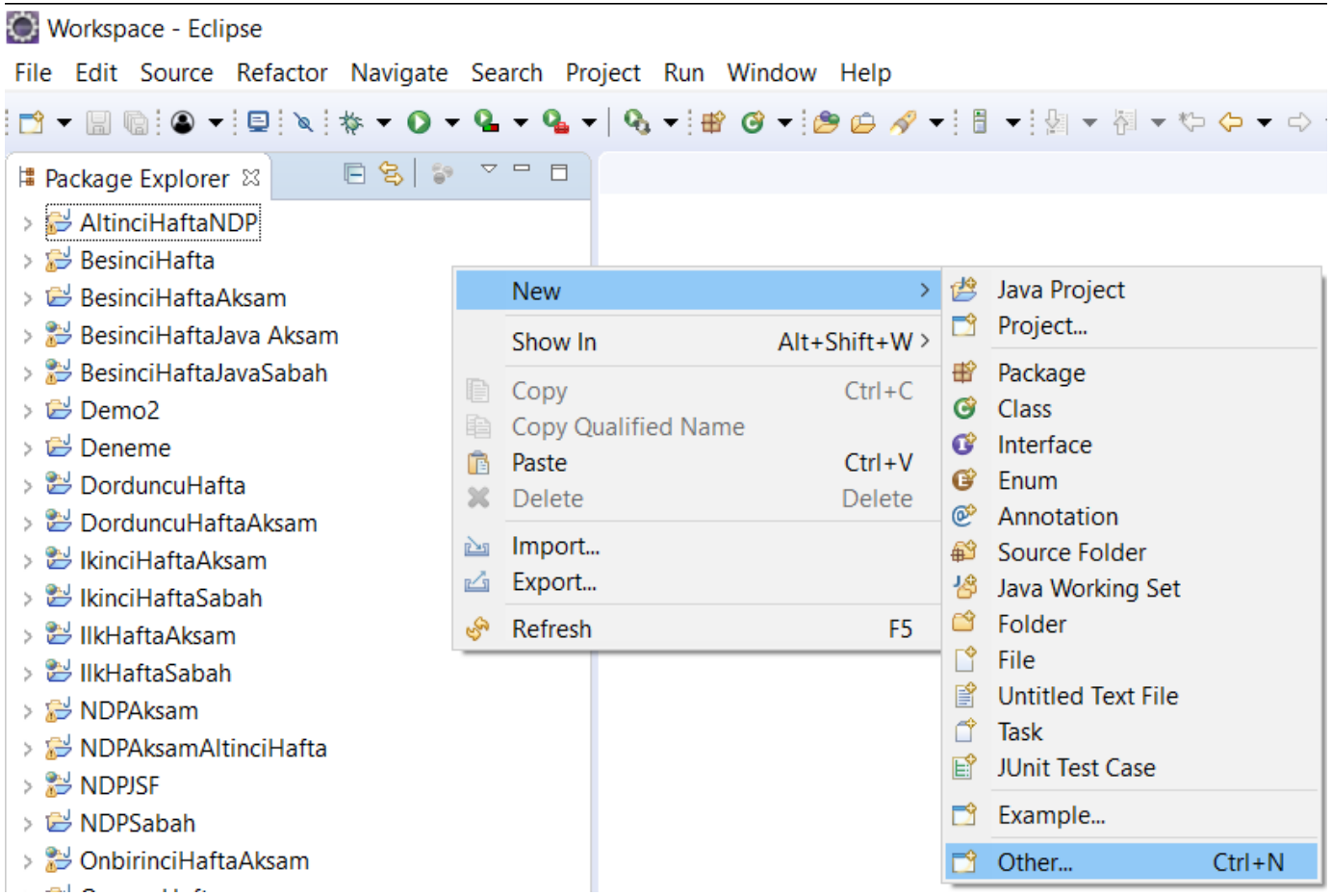
Kurulum


Eclipse Marketplace
Eclipse Marketplace
Select solutions to install. Press Install Now to proceed with installation.
Press the "more info" link to learn more about a solution.
Search
Recent
Popular
Favorites
Installed
Giving IoT an Edge
Find:
jboss tool
All Markets
All Categories
Go
Featured
Eclipse Embedded C/C++ 5.2.1
Promoted - The Eclipse Embedded CDT (C/C++ Development Tools, formerly GNU MCU/ARM Eclipse) is an open source project that includes a family of Eclipse plug-ins and tools... more info
by Unknown, EPL
GNU Arm Cortex-M RISC-V J-Link
169
Installs: 117K (3.849 last month)
Install
Eclipse Web Developer Tools 3.9.4
Promoted - Includes the HTML, CSS, and JSON Editors, and JavaScript Development Tools from the Eclipse Web Tools Platform project, aimed at supporting client-side web... more info
by The Eclipse Foundation, EPL
xml html CSS js JSON
833
Installs: 270K (15.354 last month)
Installed
Wicked Shell 2.0.6

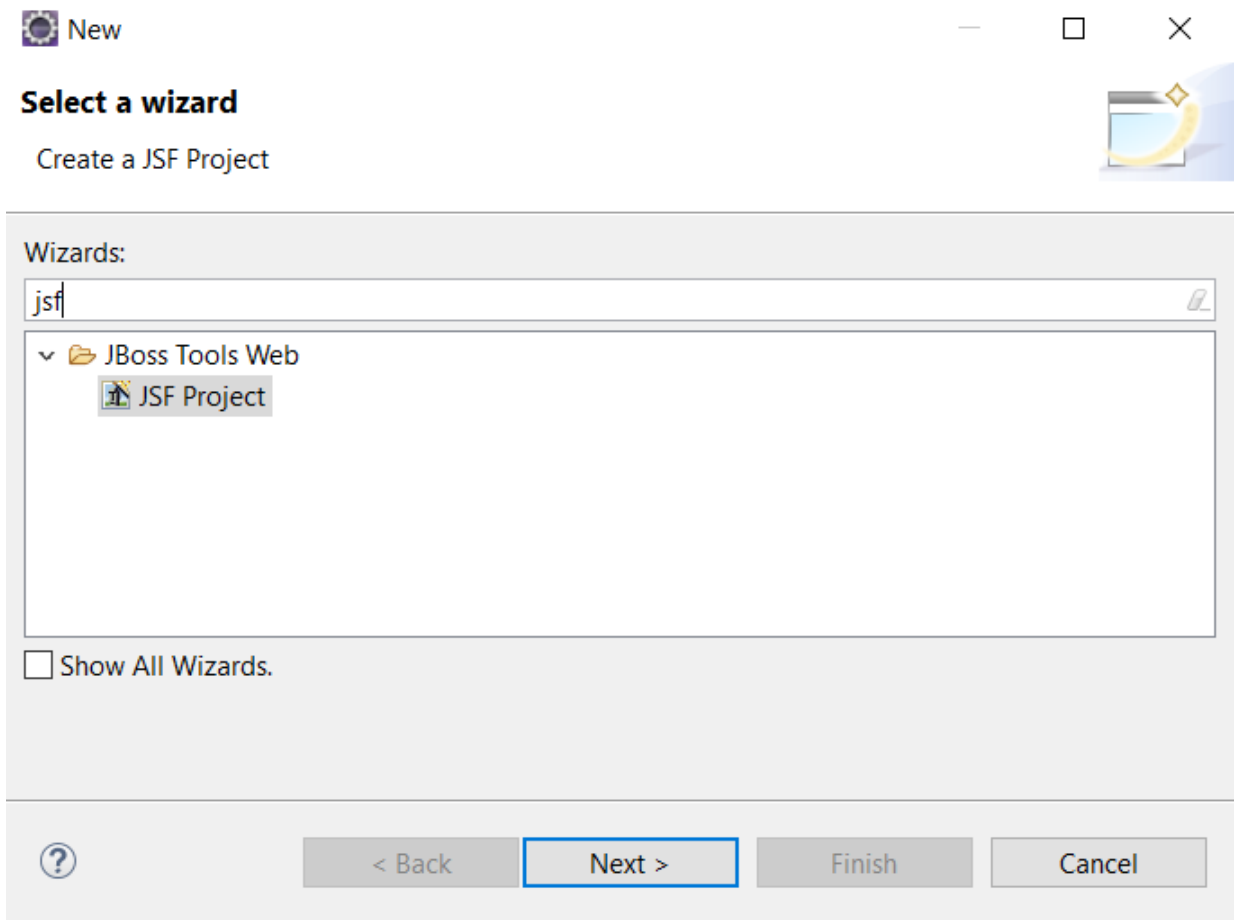
Kurulum


Eclipse Marketplace
Eclipse Marketplace
Select solutions to install. Press Install Now to proceed with installation.
Press the "more info" link to learn more about a solution.
Search
Recent
Popular
Favorites
Installed
Giving IoT an Edge
Find:
jboss tool
All Markets
All Categories
Go
FreeMarker IDE from JBoss Tools 1.5
This is quick way to install FreeMarker IDE plugin from JBoss Tools http://tools.jboss.org/. Sources are at https://github.com/jbosstools/jbosstools-freemarker... more info
by JBoss/Red Hat, EPL
freemarker html template fileExtension_ftl
143
Installs: 113K (567 last month)
Install
JBoss Tools 4.5.3.Final
JBoss Tools is an umbrella project for a set of Eclipse plugins that includes support for JBoss and related technologies, such as Hibernate, JBoss AS / WildFly,... more info
by Red Hat, Inc., EPL
openshift WildFly jbosstools maven hibernate
1102
Installs: 1,16M (10.367 last month)
Installed

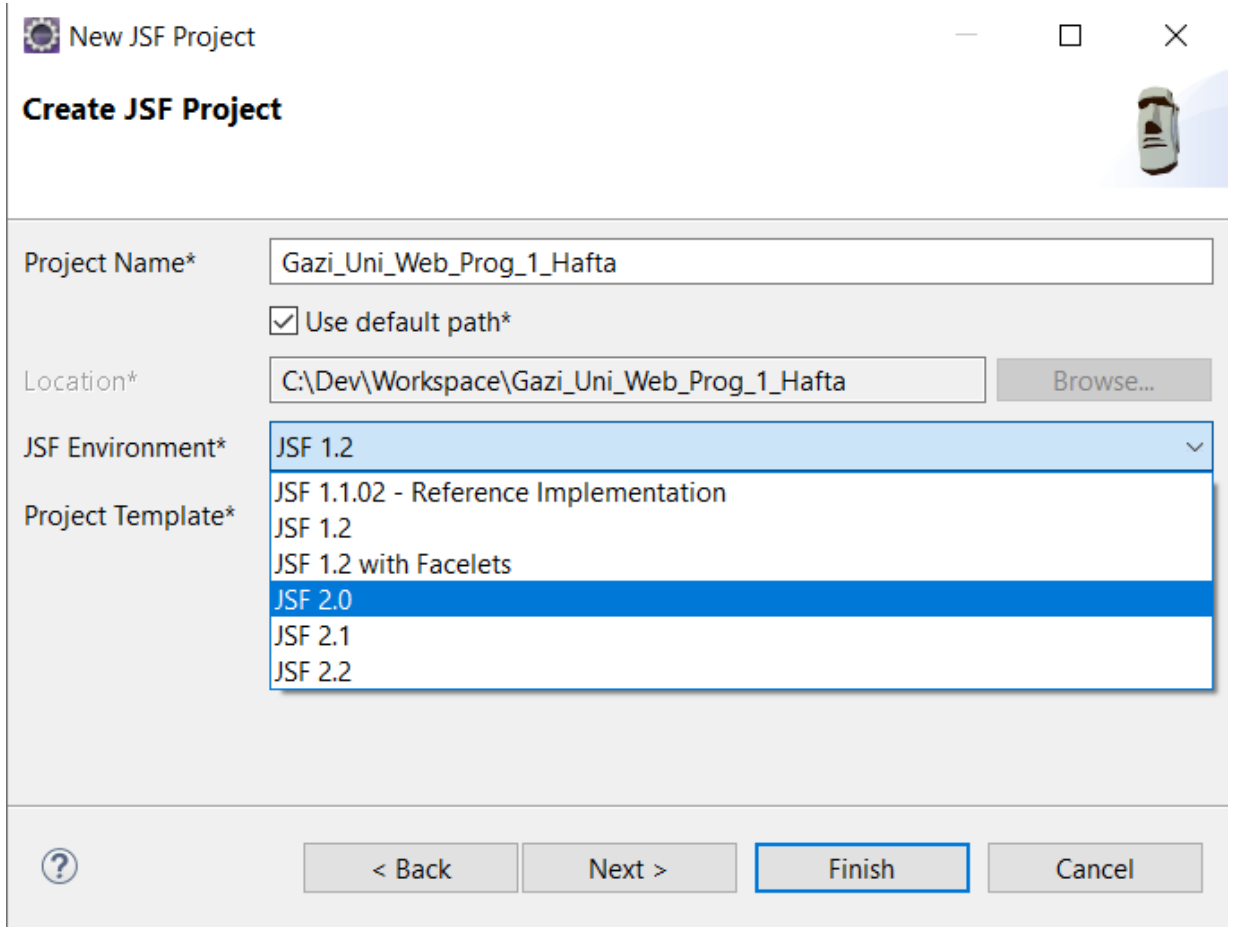
Kurulum


Workspace - Eclipse
File Edit Source Refactor Navigate Search Project Run Window Help
Package Explorer
AltinciHaftaNDP
BesinciHafta
BesinciHaftaAksam
BesinciHaftaJava Aksam
BesinciHaftaJavaSabah
Demo2
Deneme
DorduncuHafta
DorduncuHaftaAksam
IkinciHaftaAksam
IkinciHaftaSabah
IlkHaftaAksam
IlkHaftaSabah
NDPAksam
NDPAksamAltinciHafta
NDPJSF
NDPSabah
OnbirinciHaftaAksam
New
Show In Alt+Shift+W
Copy Ctrl+C
Copy Qualified Name
Paste Ctrl+V
Delete Delete
Import...
Export...
Refresh F5
Java Project
Project...
Package
Class
Interface
Enum
Annotation
Source Folder
Java Working Set
Folder
File
Untitled Text File
Task
JUnit Test Case
Example...
Other... Ctrl+N

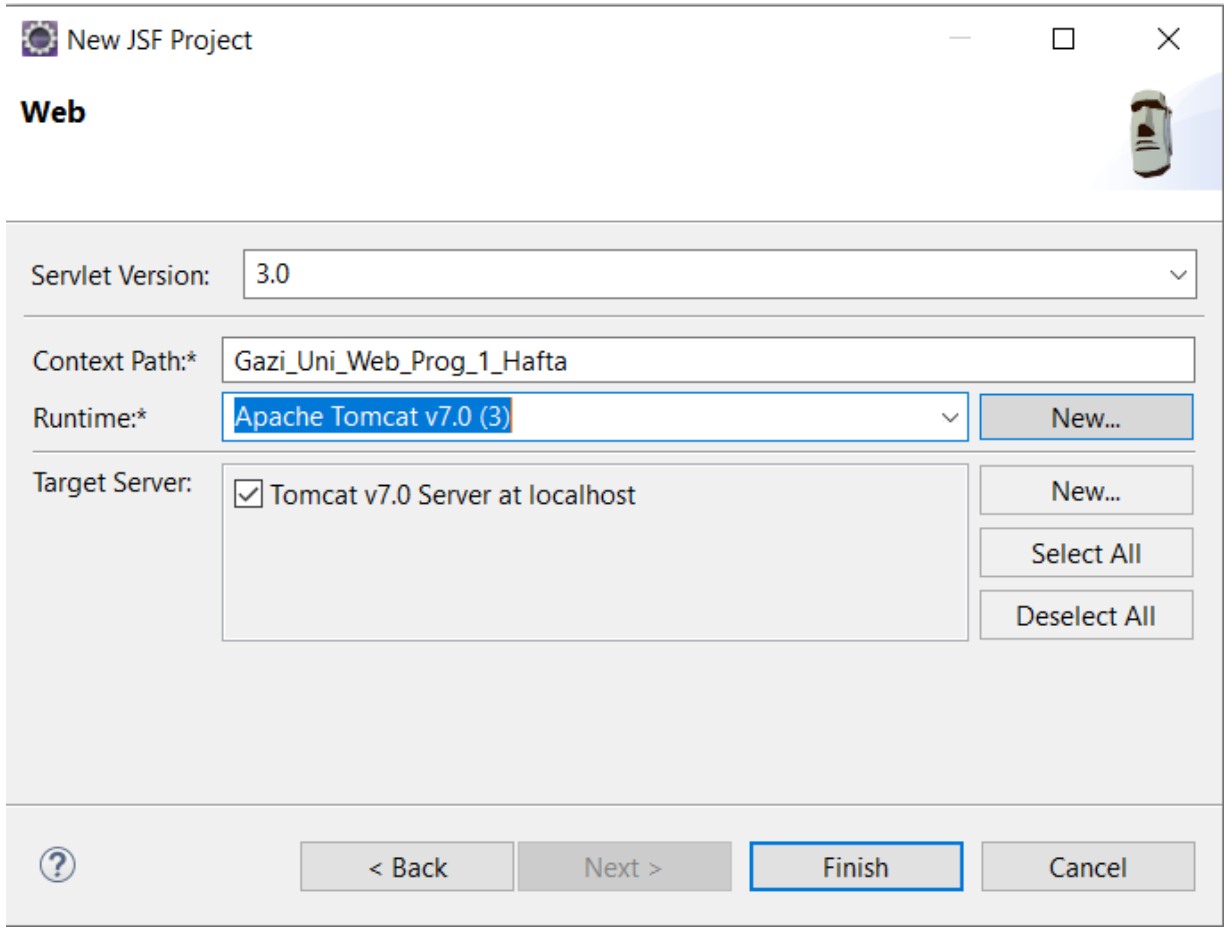
Kurulum


New
Select a wizard
Create a JSF Project
Wizards:
jsf
JBoss Tools Web
JSF Project
Show All Wizards.
< Back
Next >
Finish
Cancel

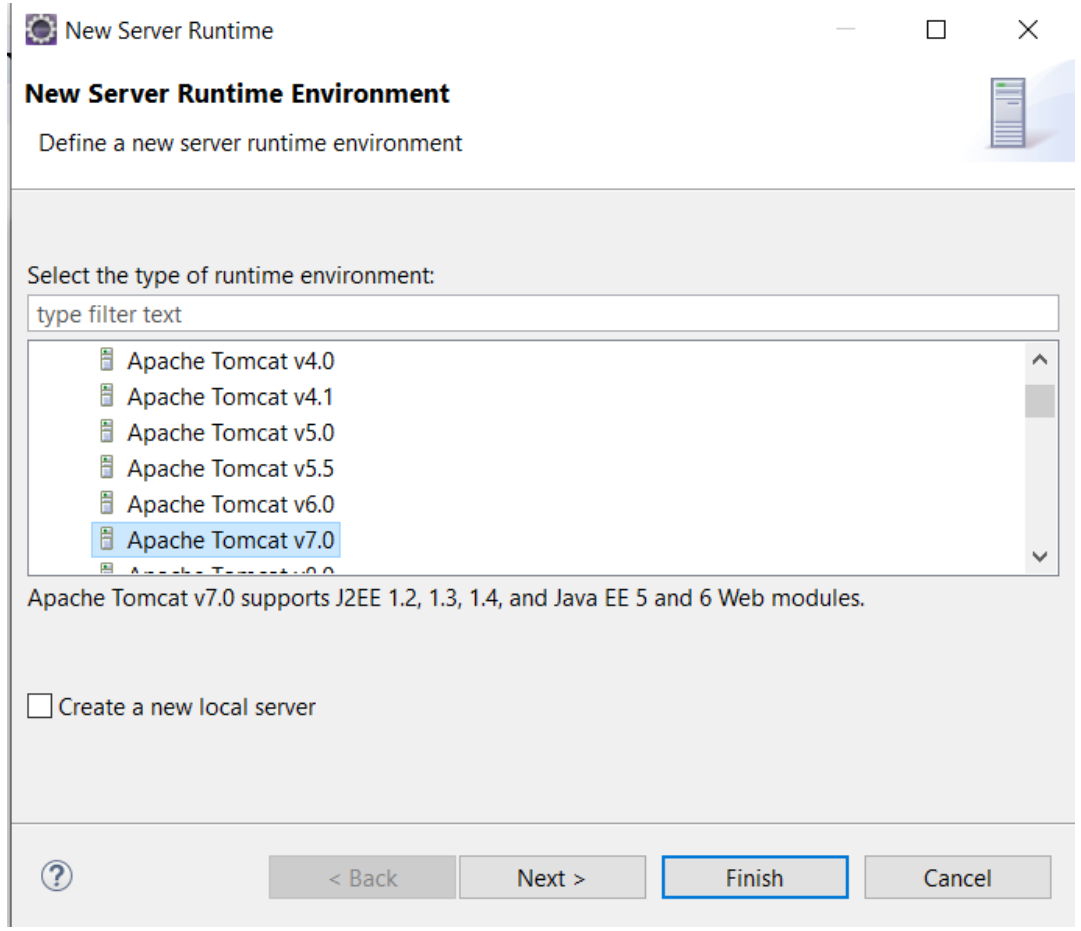
Kurulum


New JSF Project
Create JSF Project
Project Name*
Gazi_Uni_Web_Prog_1_Hafta
Use default path*
Location*
C:\Dev\Workspace\Gazi_Uni_Web_Prog_1_Hafta
Browse...
JSF Environment*
JSF 1.2
Project Template*
JSF 1.1.02 - Reference Implementation
JSF 1.2
JSF 1.2 with Facelets
JSF 2.0
JSF 2.1
JSF 2.2
< Back
Next >
Finish
Cancel

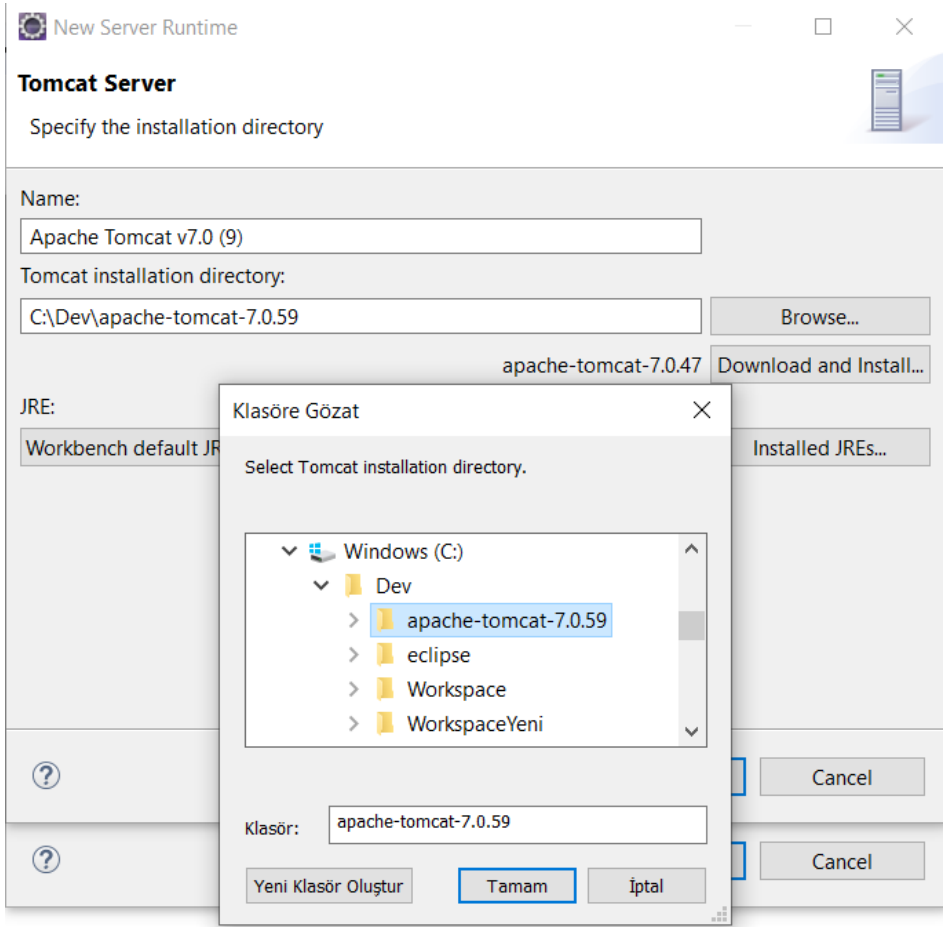
Kurulum


New JSF Project
Web
Servlet Version:
3.0
Context Path:*
Gazi_Uni_Web_Prog_1_Hafta
Runtime:*
Apache Tomcat v7.0 (3)
New...
Target Server:
Tomcat v7.0 Server at localhost
New...
Select All
Deselect All
< Back
Next >
Finish
Cancel

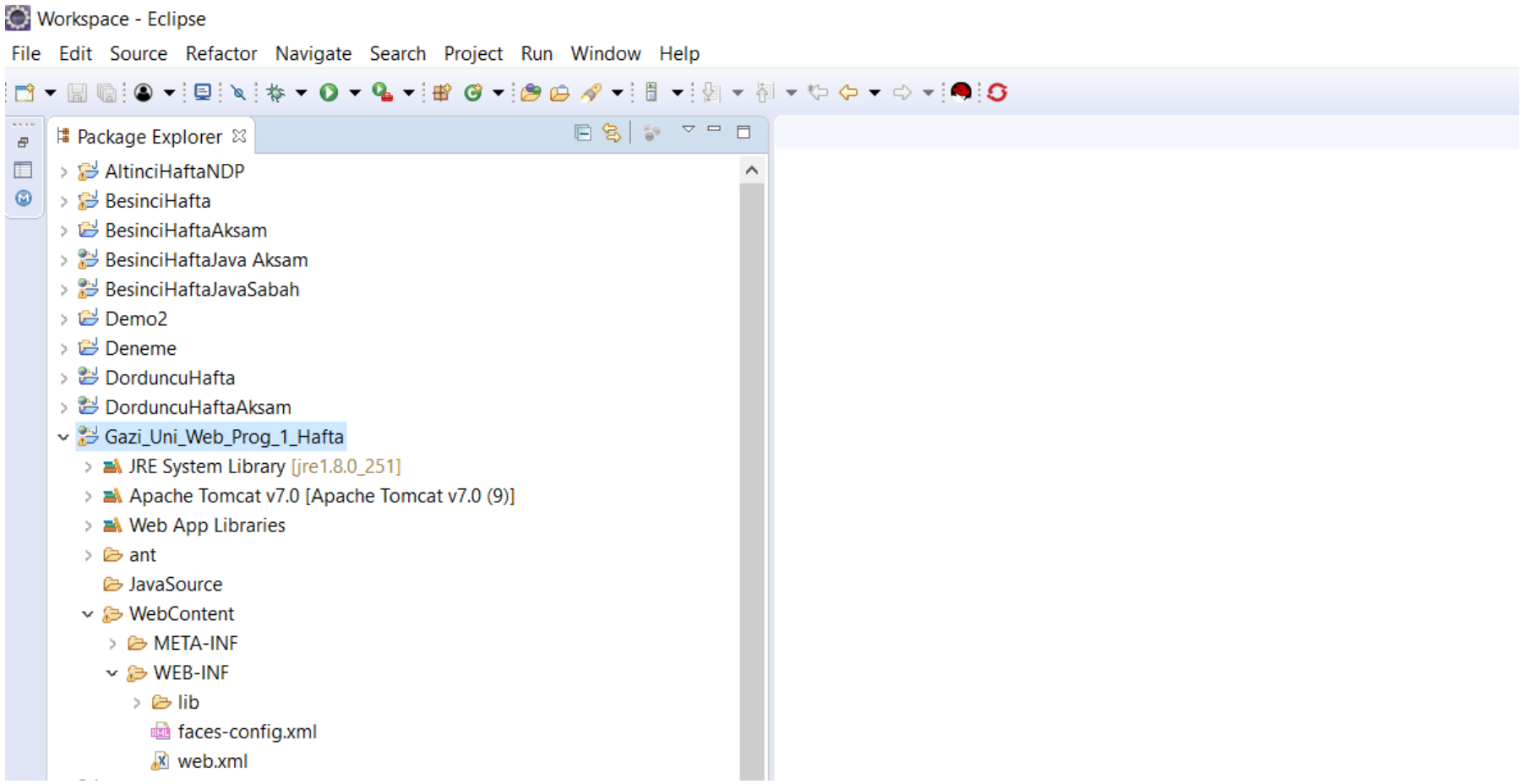
Kurulum


New Server Runtime
New Server Runtime Environment
Define a new server runtime environment
Select the type of runtime environment:
type filter text
Apache Tomcat v4.0
Apache Tomcat v4.1
Apache Tomcat v5.0
Apache Tomcat v5.5
Apache Tomcat v6.0
Apache Tomcat v7.0
Apache Tomcat v7.0 supports J2EE 1.2, 1.3, 1.4, and Java EE 5 and 6 Web modules.
Create a new local server
< Back
Next >
Finish
Cancel

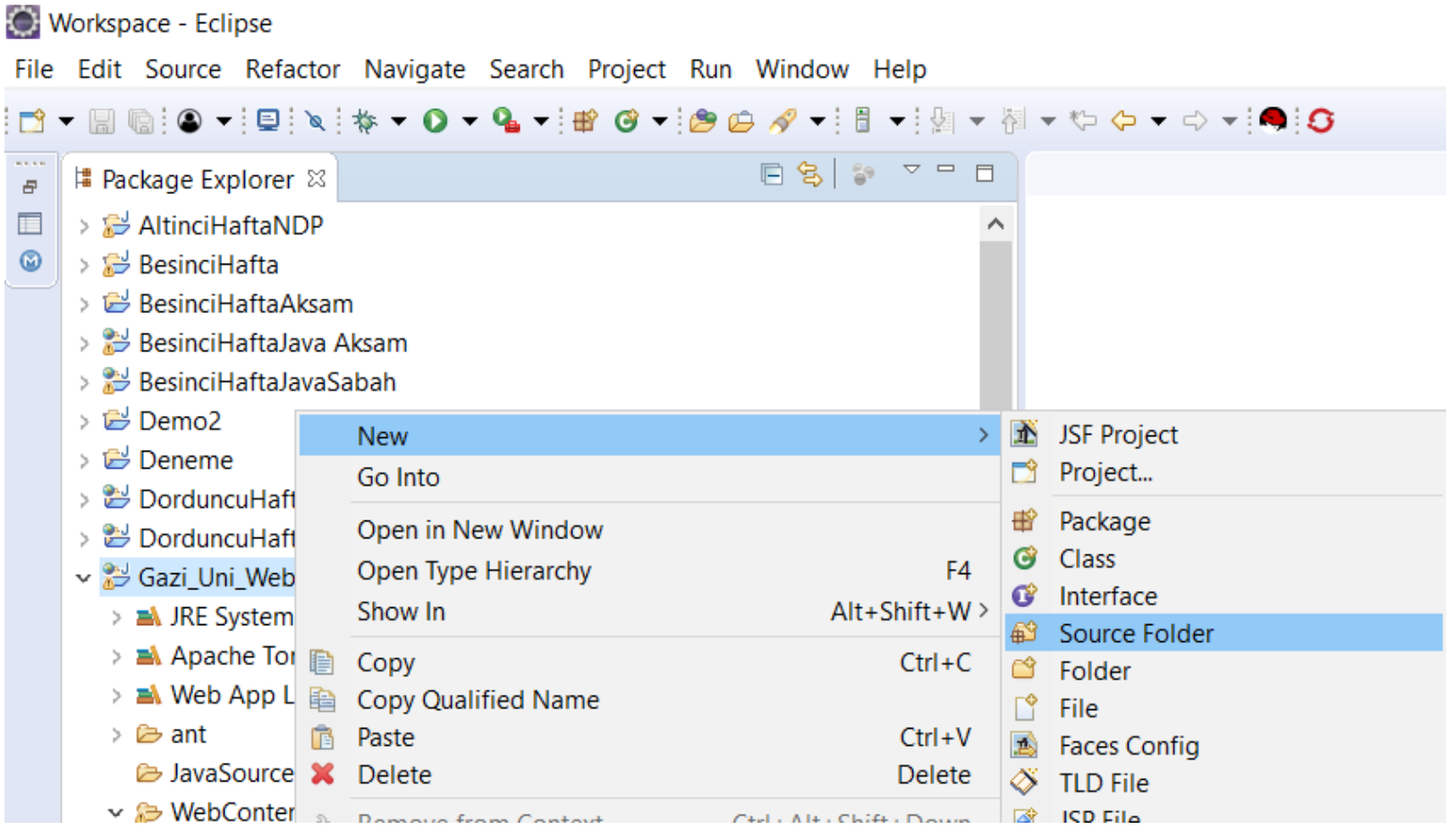
Kurulum


New Server Runtime
Tomcat Server
Specify the installation directory
Name:
Apache Tomcat v7.0 (9)
Tomcat installation directory:
C:\Dev\apache-tomcat-7.0.59
Browse...
apache-tomcat-7.0.47
Download and Install...
JRE:
Workbench default JR
Installed JREs...
Cancel
Cancel
Klasöre Gözat
Select Tomcat installation directory.
Windows (C:)
Dev
apache-tomcat-7.0.59
eclipse
Workspace
WorkspaceYeni
Klasör:
apache-tomcat-7.0.59
Yeni Klasör Oluştur
Tamam
İptal

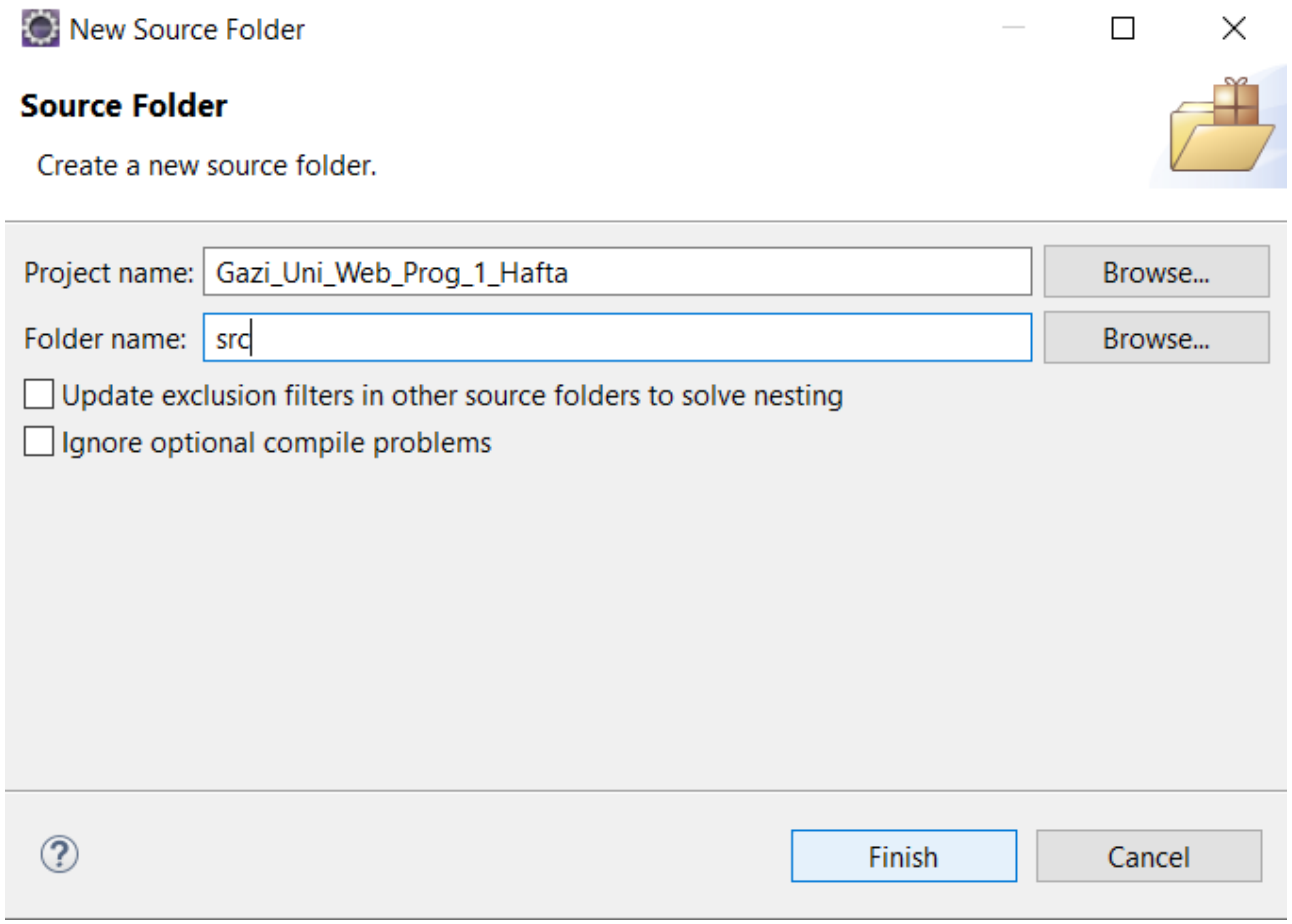
Kurulum


Workspace - Eclipse
File Edit Source Refactor Navigate Search Project Run Window Help
Package Explorer
AltinciHaftaNDP
BesinciHafta
BesinciHaftaAksam
BesinciHaftaJava Aksam
BesinciHaftaJavaSabah
Demo2
Deneme
DorduncuHafta
DorduncuHaftaAksam
Gazi_Uni_Web_Prog_1_Hafta
JRE System Library [jre1.8.0_251]
Apache Tomcat v7.0 [Apache Tomcat v7.0 (9)]
Web App Libraries
ant
JavaSource
WebContent
META-INF
WEB-INF
lib
faces-config.xml
web.xml

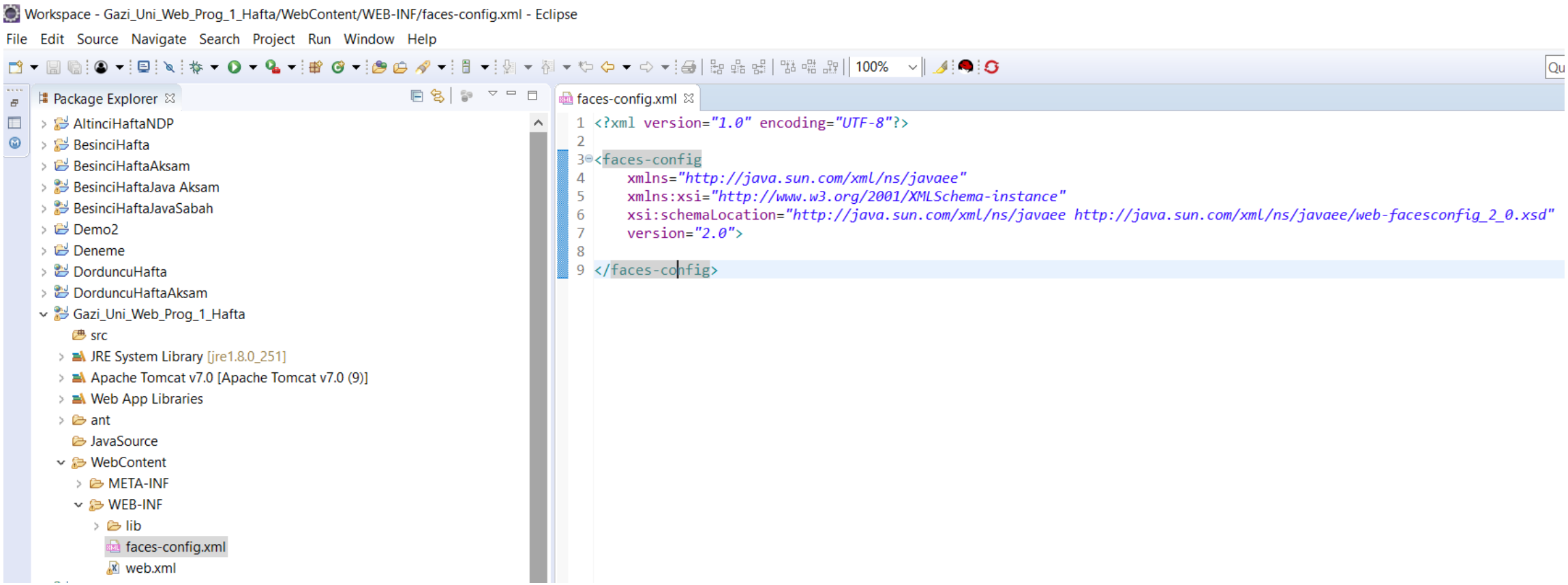
Kurulum


Workspace - Eclipse
File Edit Source Refactor Navigate Search Project Run Window Help
Package Explorer
AltinciHaftaNDP
BesinciHafta
BesinciHaftaAksam
BesinciHaftaJava Aksam
BesinciHaftaJavaSabah
Demo2
Deneme
DorduncuHaft
DorduncuHaft
Gazi_Uni_Web
JRE System
Apache To
Web App L
ant
JavaSource
WebConter
New
Go Into
Open in New Window
Open Type Hierarchy F4
Show In Alt+Shift+W
Copy Ctrl+C
Copy Qualified Name
Paste Ctrl+V
Delete Delete
JSF Project
Project...
Package
Class
Interface
Source Folder
Folder
File
Faces Config
TLD File

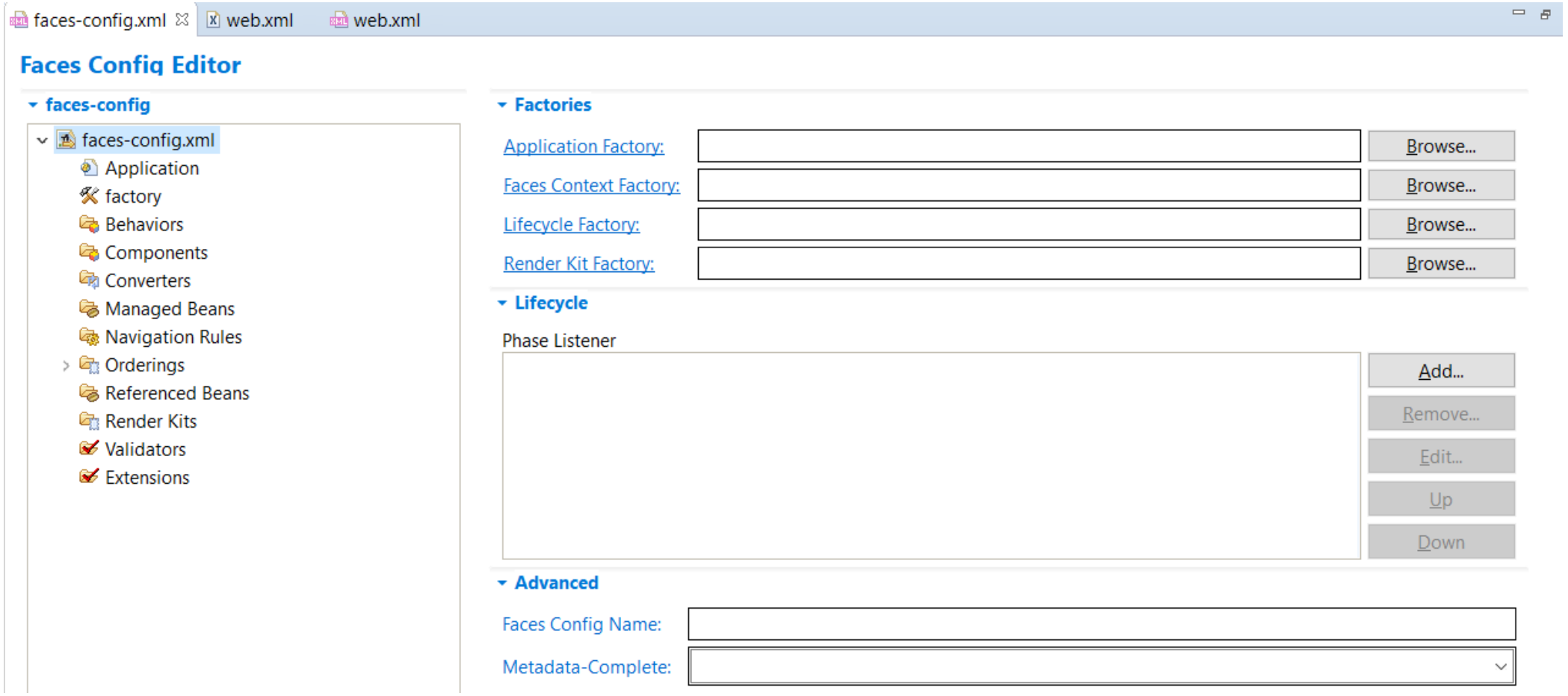
Kurulum


New Source Folder
Source Folder
Create a new source folder.
Project name:
Gazi_Uni_Web_Prog_1_Hafta
Browse...
Folder name:
src
Browse...
Update exclusion filters in other source folders to solve nesting
Ignore optional compile problems
Finish
Cancel

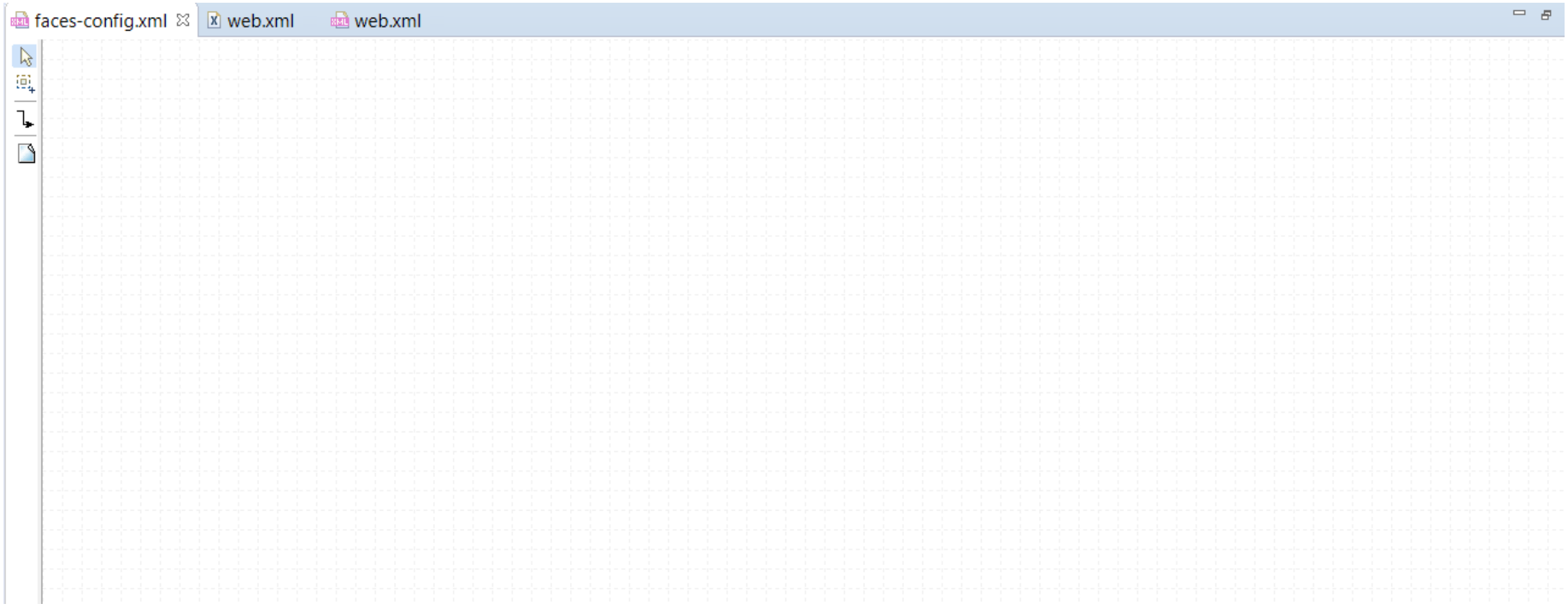
Kurulum


Workspace - Gazi_Uni_Web_Prog_1_Hafta/WebContent/WEB-INF/faces-config.xml - Eclipse
File Edit Source Navigate Search Project Run Window Help
100%
Package Explorer
AltinciHaftaNDP
BesinciHafta
BesinciHaftaAksam
BesinciHaftaJava Aksam
BesinciHaftaJavaSabah
Demo2
Deneme
DorduncuHafta
DorduncuHaftaAksam
Gazi_Uni_Web_Prog_1_Hafta
src
JRE System Library [jre1.8.0_251]
Apache Tomcat v7.0 [Apache Tomcat v7.0 (9)]
Web App Libraries
ant
JavaSource
WebContent
META-INF
WEB-INF
lib
faces-config.xml
web.xml
faces-config.xml
1 <?xml version="1.0" encoding="UTF-8"?>
2
3 <faces-config
4 xmlns="http://java.sun.com/xml/ns/javaee"
5 xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
6 xsi:schemaLocation="http://java.sun.com/xml/ns/javaee http://java.sun.com/xml/ns/javaee/web-facesconfig_2_0.xsd"
7 version="2.0">
8
9 </faces-config>

Kurulum


faces-config.xml
web.xml
web.xml
Faces Config Editor
faces-config
faces-config.xml
Application
factory
Behaviors
Components
Converters
Managed Beans
Navigation Rules
Orderings
Referenced Beans
Render Kits
Validators
Extensions
Factories
Application Factory:
Faces Context Factory:
Lifecycle Factory:
Render Kit Factory:
Browse...
Lifecycle
Phase Listener
Add...
Remove...
Edit...
Up
Down
Advanced
Faces Config Name:
Metadata-Complete:

Kurulum

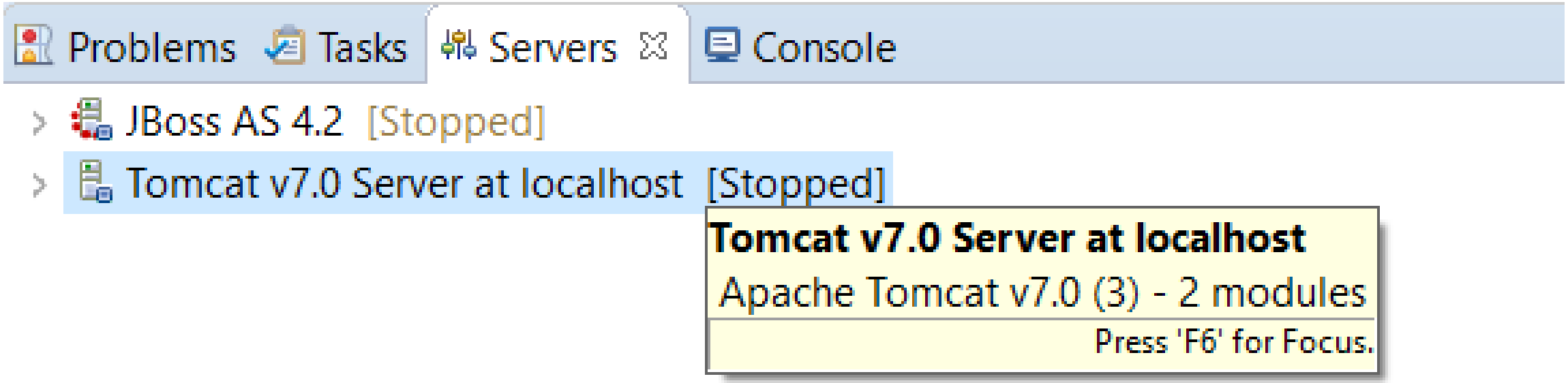


Kurulum

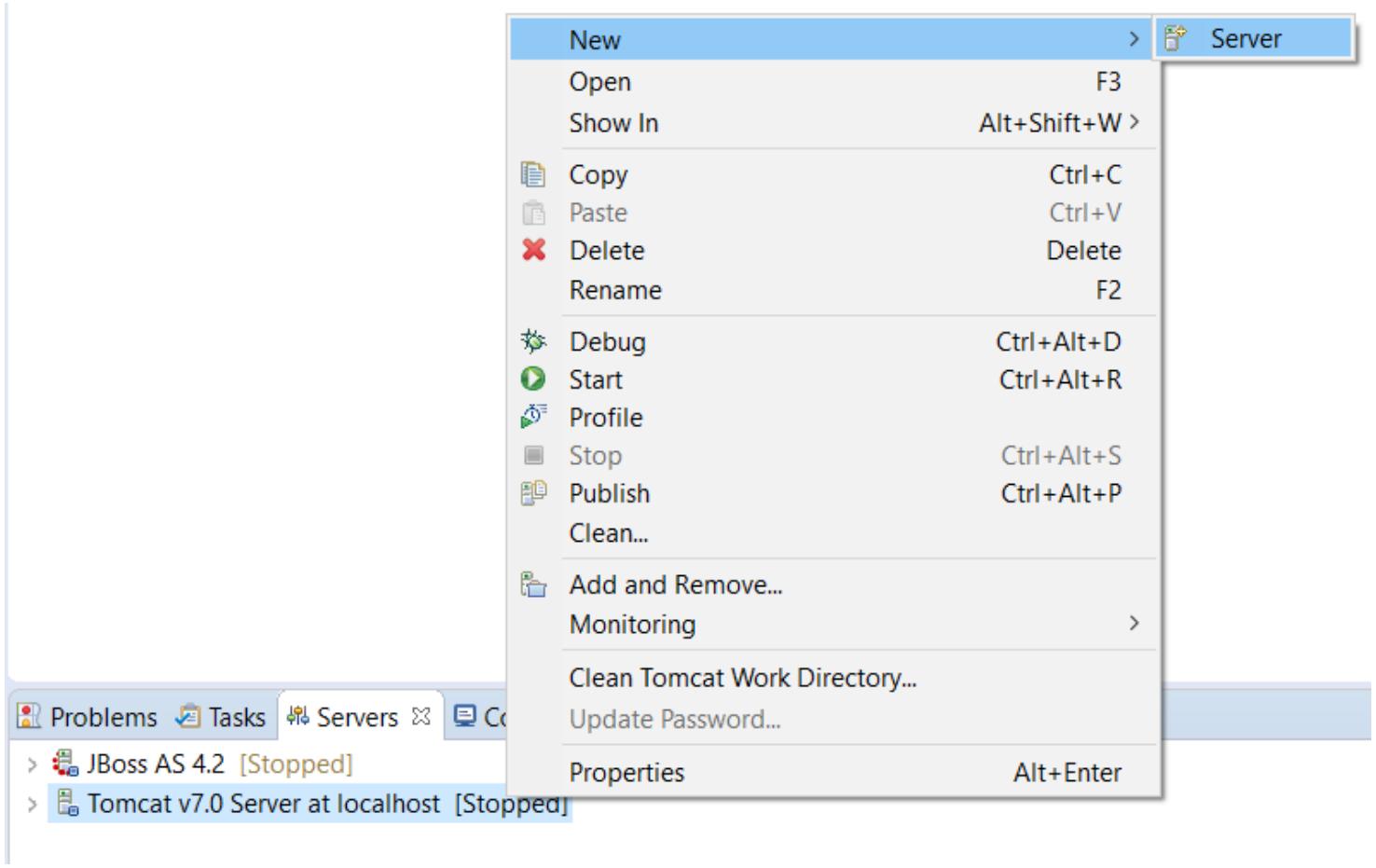
faces-config.xml | web.xml | web.xml

```
<?xml version="1.0"?>
<web-app version="3.0" xmlns="http://java.sun.com/xml/ns/javaee"
 xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://j
 <display-name>BesinciHaftaJava Aksam</display-name>
 <!--
  <welcome-file-list>
    <welcome-file>index.html</welcome-file>
  </welcome-file-list>
 -->
 <servlet>
  <servlet-name>Faces Servlet</servlet-name>
  <servlet-class>javax.faces.webapp.FacesServlet</servlet-class>
  <load-on-startup>1</load-on-startup>
 </servlet>
 <servlet-mapping>
  <servlet-name>Faces Servlet</servlet-name>
  <url-pattern>*.jsf</url-pattern>
 </servlet-mapping>
 <servlet-mapping>
  <servlet-name>Faces Servlet</servlet-name>
  <url-pattern>*.faces</url-pattern>
 </servlet-mapping>
 <servlet-mapping>
  <servlet-name>Faces Servlet</servlet-name>
  <url-pattern>/faces/*</url-pattern>
 </servlet-mapping>
</web-app>

```

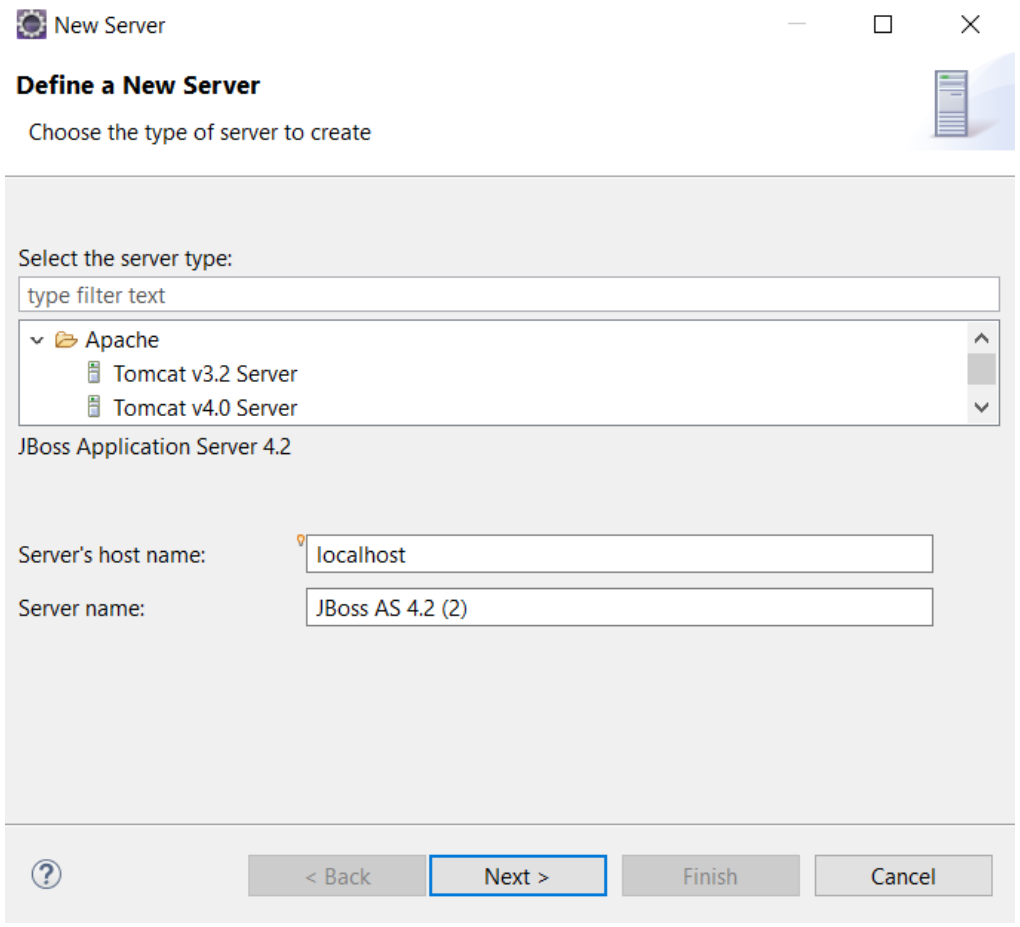
Kurulum


Problems
Tasks
Servers
Console
JBoss AS 4.2 [Stopped]
Tomcat v7.0 Server at localhost [Stopped]
Tomcat v7.0 Server at localhost
Apache Tomcat v7.0 (3) - 2 modules
Press 'F6' for Focus.

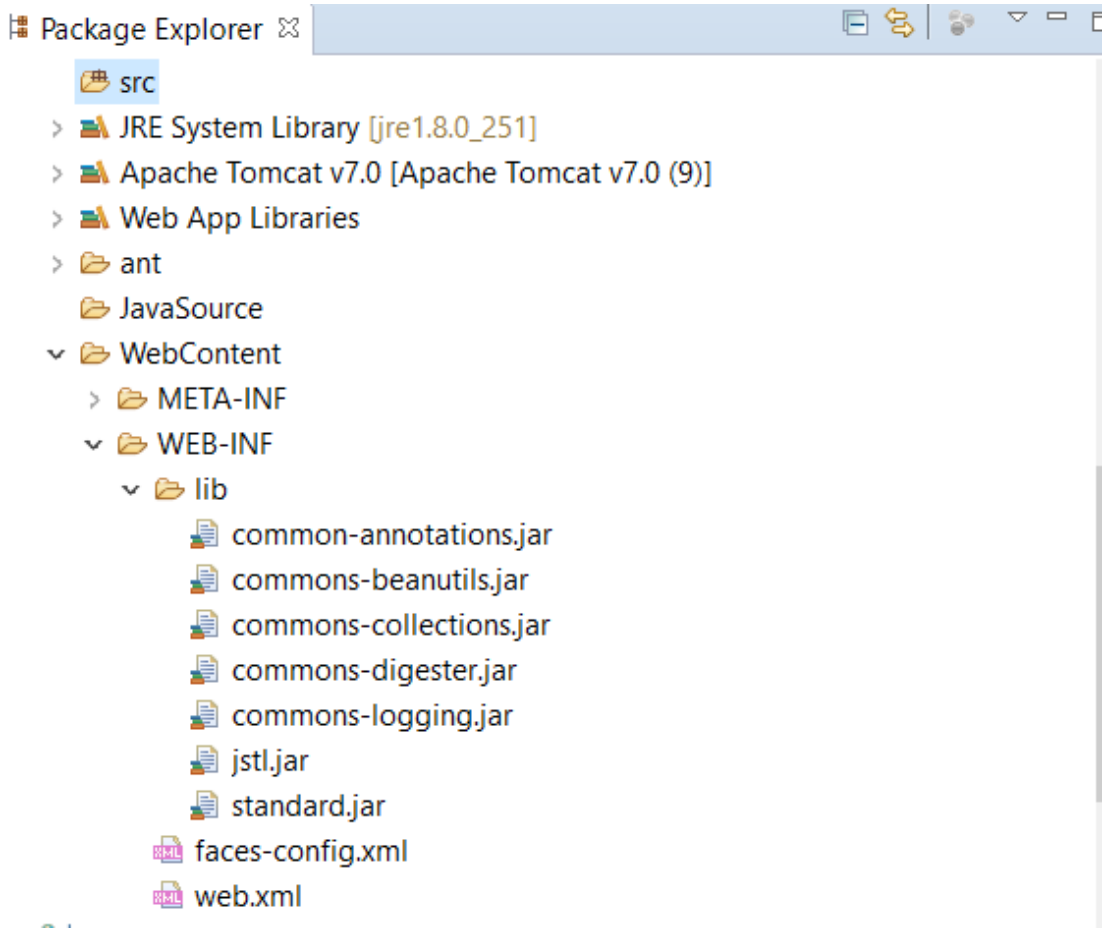
Kurulum


New
Server
Open F3
Show In Alt+Shift+W
Copy Ctrl+C
Paste Ctrl+V
Delete Delete
Rename F2
Debug Ctrl+Alt+D
Start Ctrl+Alt+R
Profile
Stop Ctrl+Alt+S
Publish Ctrl+Alt+P
Clean...
Add and Remove...
Monitoring
Clean Tomcat Work Directory...
Update Password...
Properties Alt+Enter
Problems
Tasks
Servers
JBoss AS 4.2 [Stopped]
Tomcat v7.0 Server at localhost [Stopped]

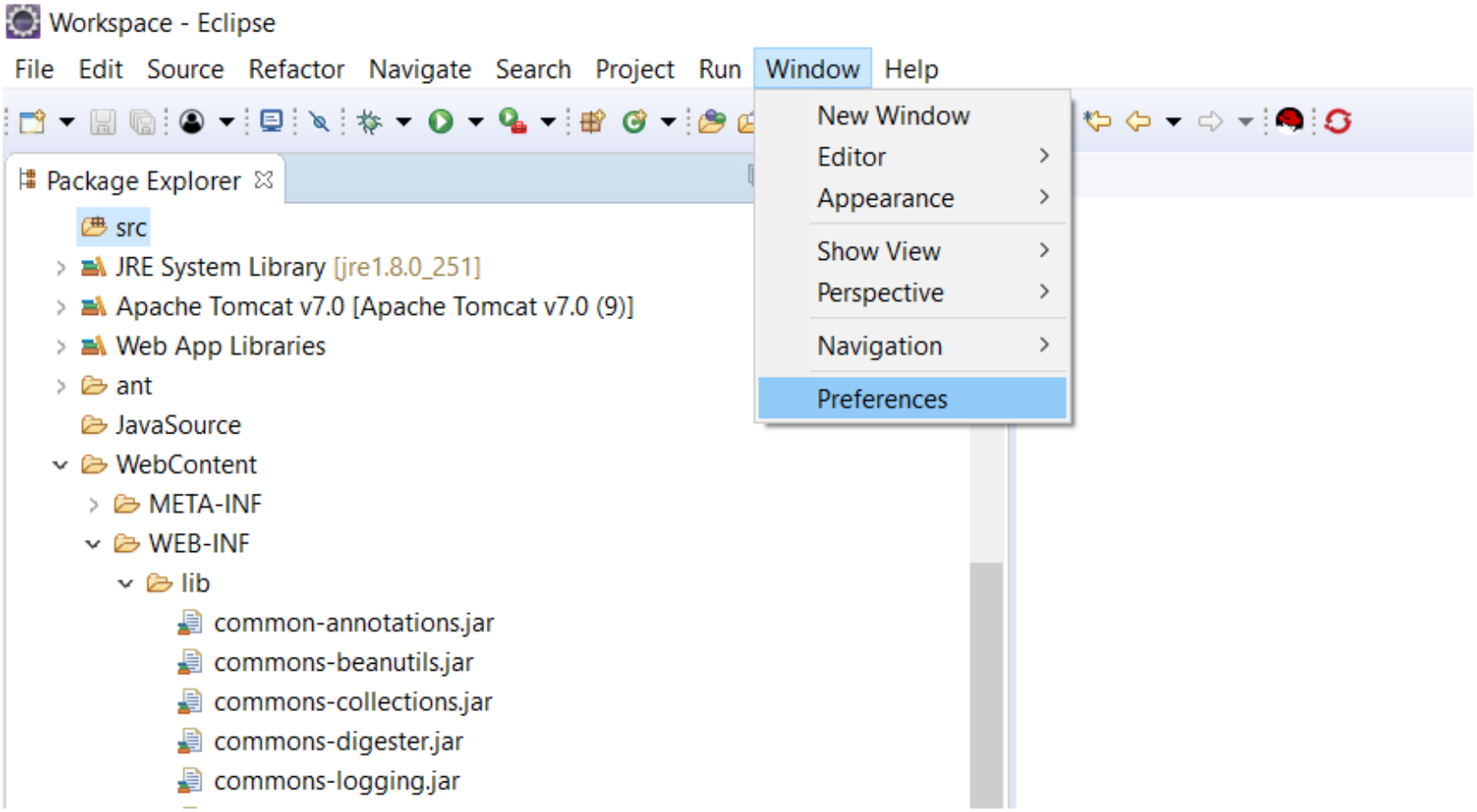
Kurulum


New Server
Define a New Server
Choose the type of server to create
Select the server type:
type filter text
Apache
Tomcat v3.2 Server
Tomcat v4.0 Server
JBoss Application Server 4.2
Server's host name:
localhost
Server name:
JBoss AS 4.2 (2)
< Back
Next >
Finish
Cancel

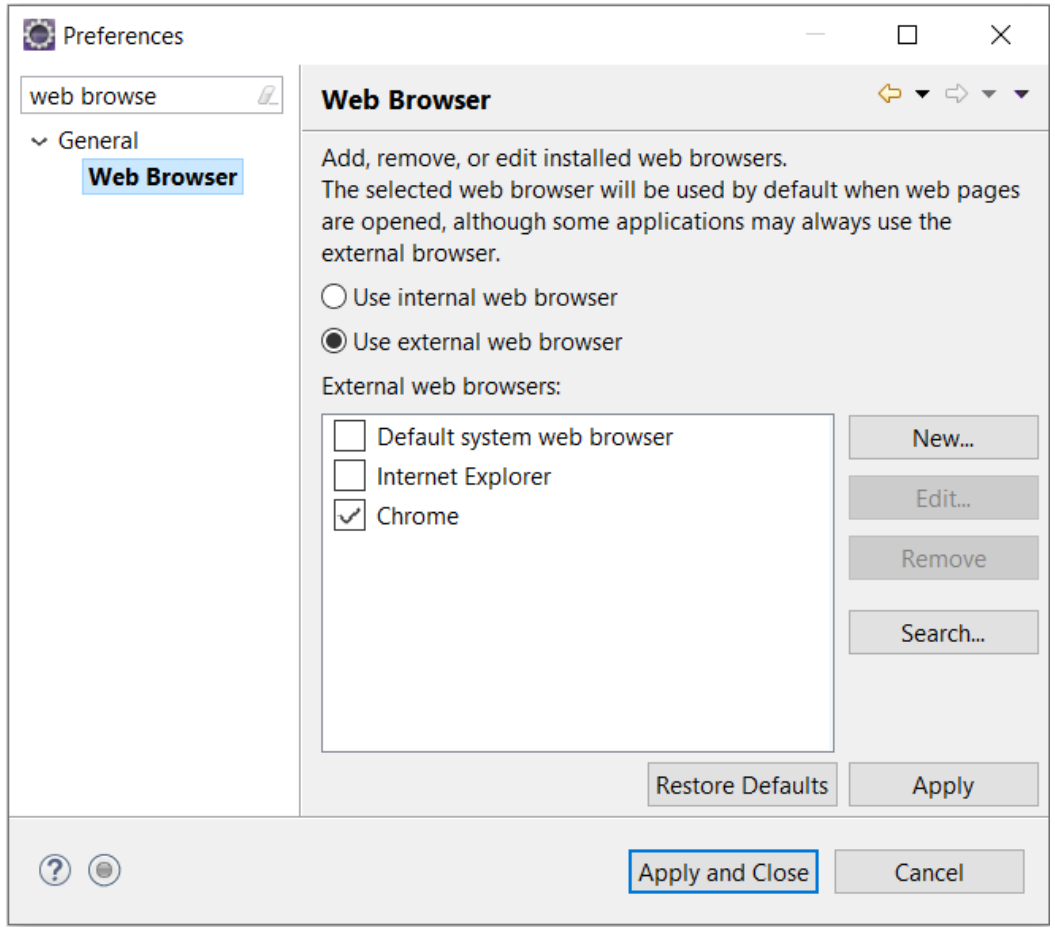
Kurulum


Package Explorer
src
JRE System Library [jre1.8.0_251]
Apache Tomcat v7.0 [Apache Tomcat v7.0 (9)]
Web App Libraries
ant
JavaSource
WebContent
META-INF
WEB-INF
lib
common-annotations.jar
commons-beanutils.jar
commons-collections.jar
commons-digester.jar
commons-logging.jar
jstl.jar
standard.jar
faces-config.xml
web.xml

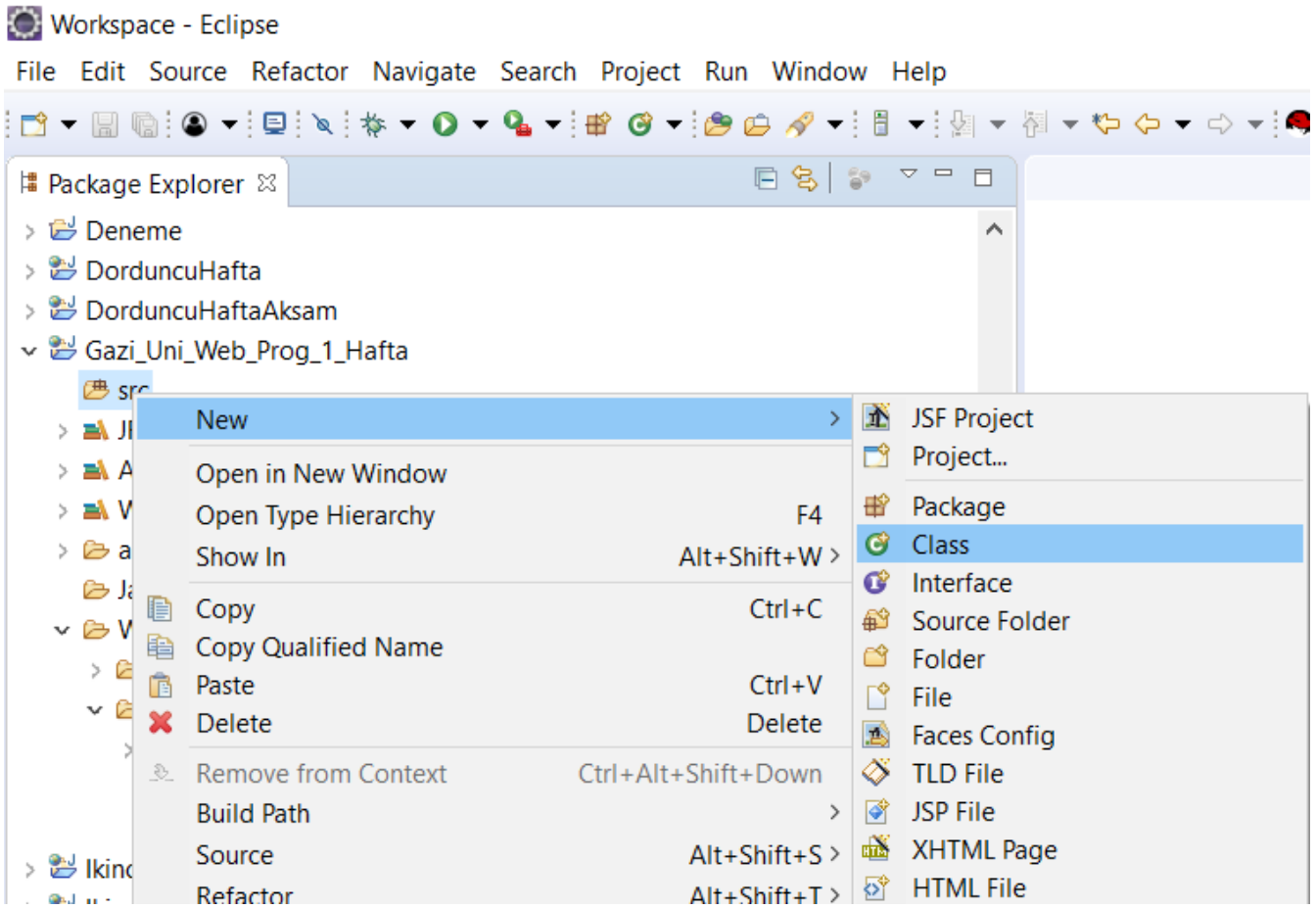
Kurulum


Workspace - Eclipse
File Edit Source Refactor Navigate Search Project Run Window Help
New Window
Editor
Appearance
Show View
Perspective
Navigation
Preferences
Package Explorer
src
JRE System Library [jre1.8.0_251]
Apache Tomcat v7.0 [Apache Tomcat v7.0 (9)]
Web App Libraries
ant
JavaSource
WebContent
META-INF
WEB-INF
lib
common-annotations.jar
commons-beanutils.jar
commons-collections.jar
commons-digester.jar
commons-logging.jar

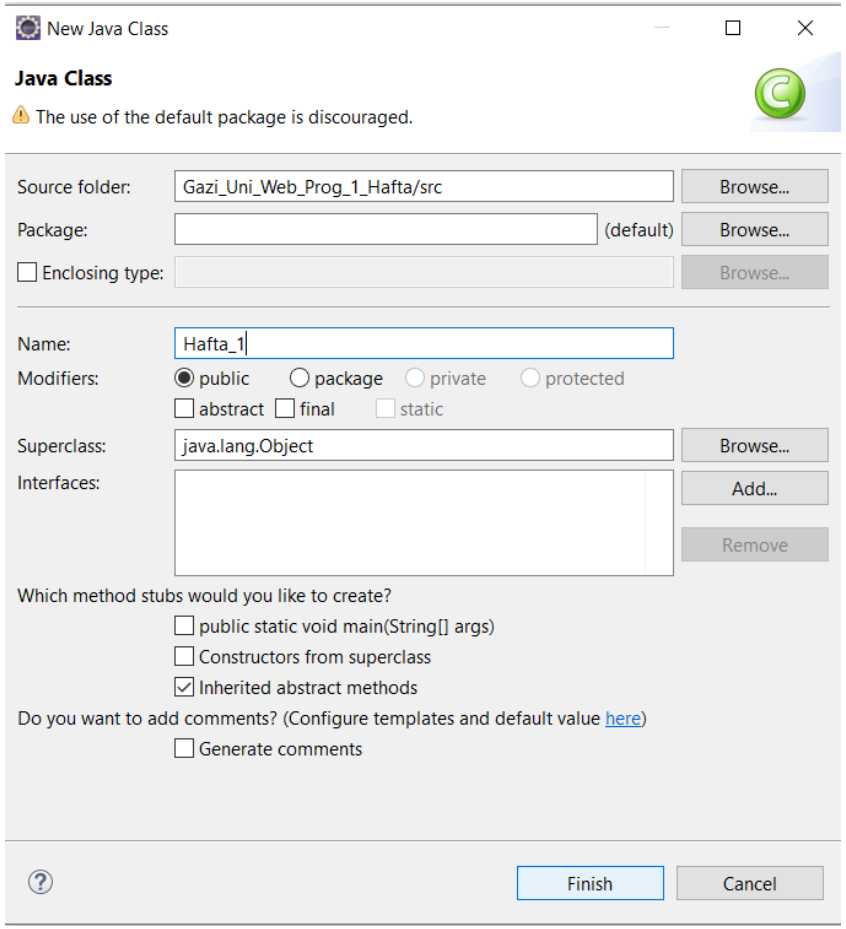
Kurulum


Preferences
web browse
General
Web Browser
Web Browser
Add, remove, or edit installed web browsers.
The selected web browser will be used by default when web pages are opened, although some applications may always use the external browser.
Use internal web browser
Use external web browser
External web browsers:
Default system web browser
Internet Explorer
Chrome
New...
Edit...
Remove
Search...
Restore Defaults
Apply
Apply and Close
Cancel

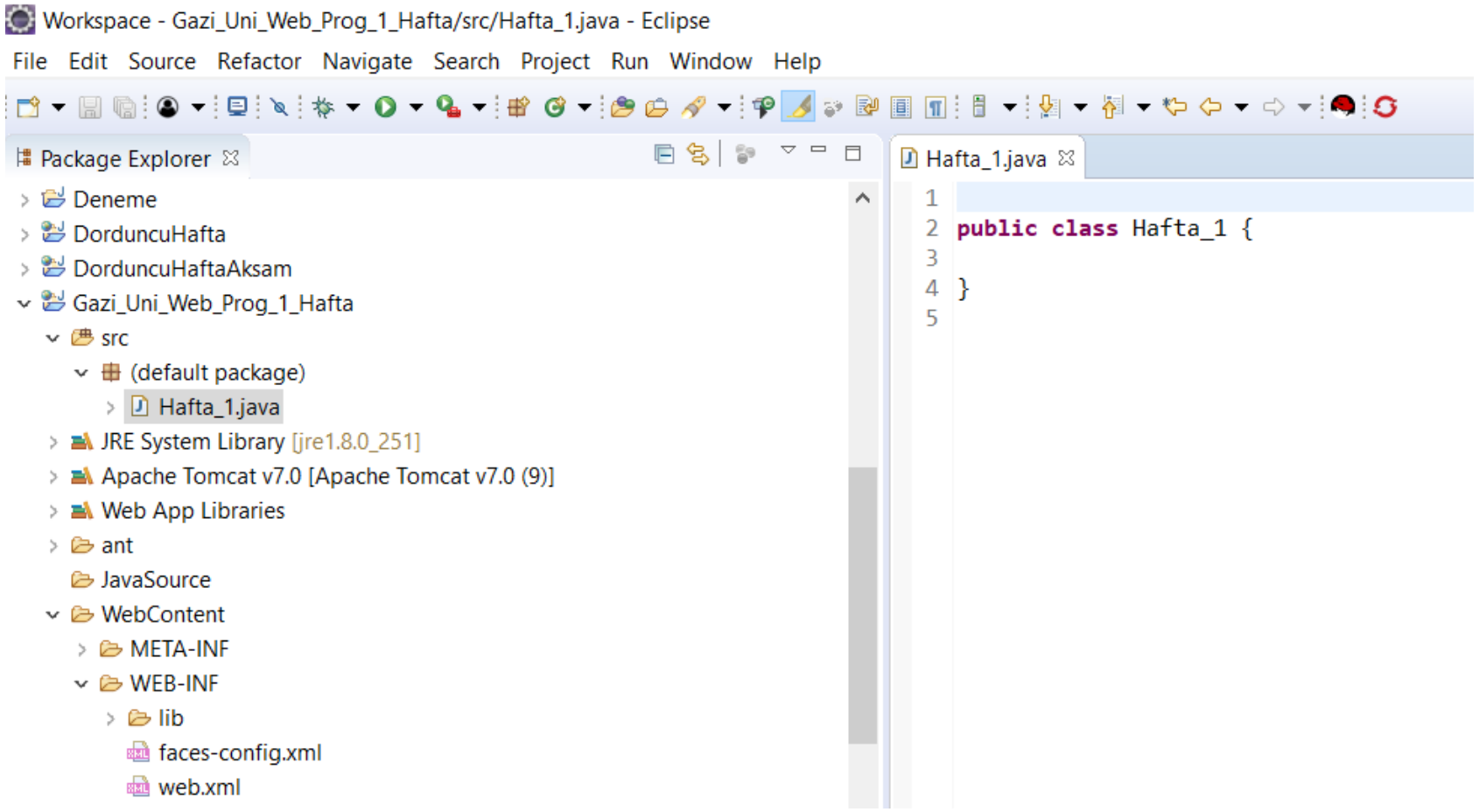
İlk Uygulama Ve Test



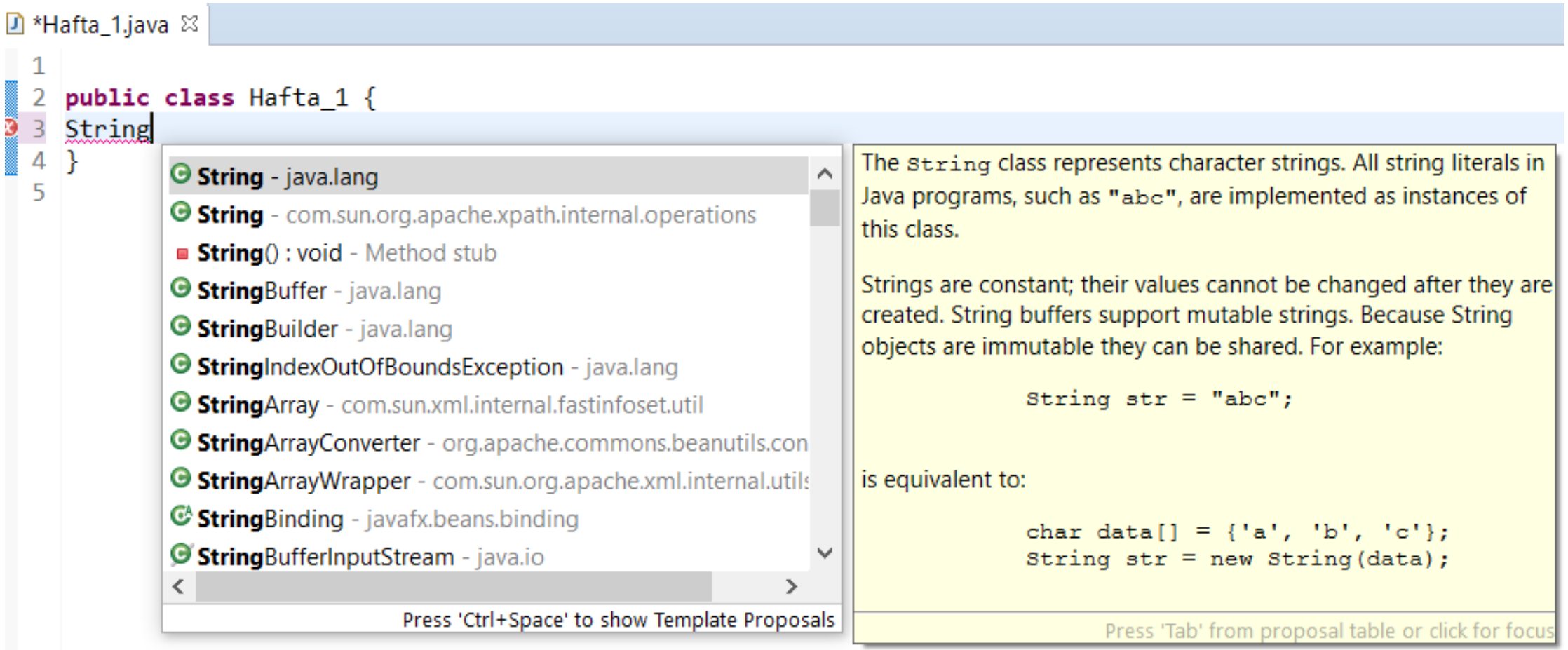
İlk Uygulama Ve Test



İlk Uygulama Ve Test



İlk Uygulama Ve Test

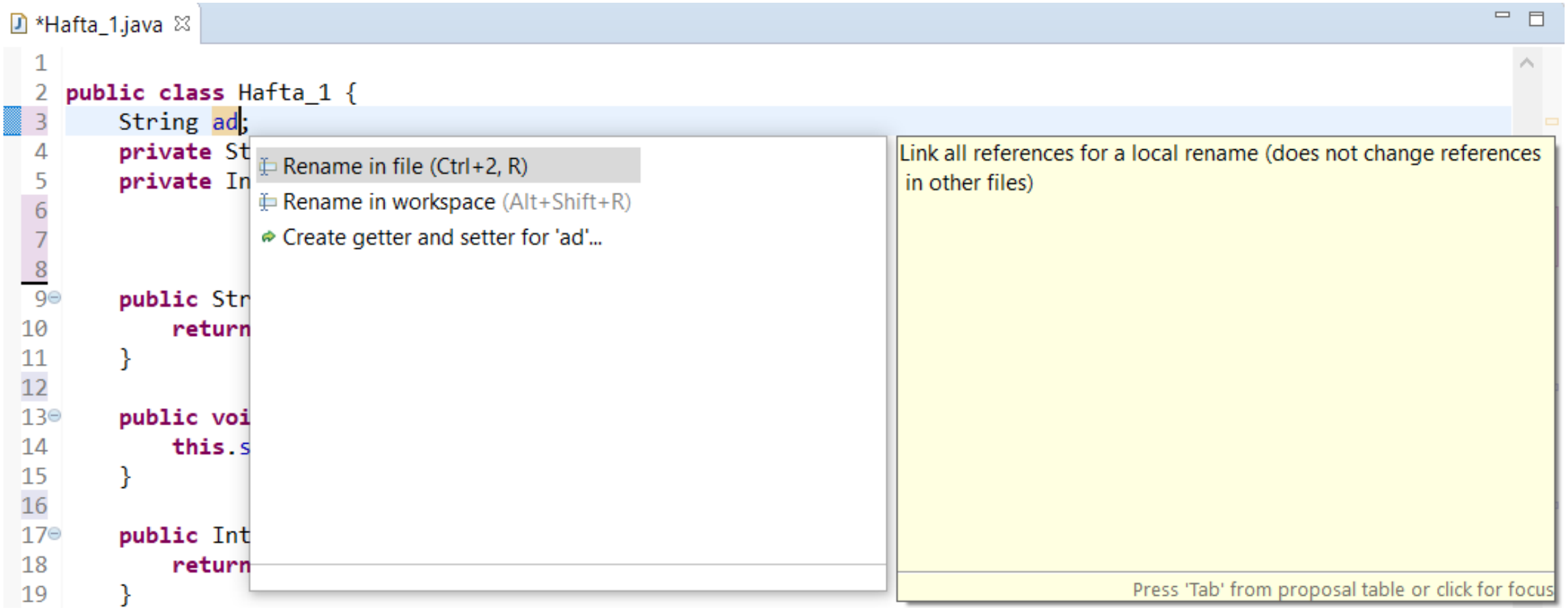


İlk Uygulama Ve Test

Hafta_1.java

```
1
2  public class Hafta_1 {
3      String ad;
4      String soyad;
5      Integer yas;
6  }
7
```

İlk Uygulama Ve Test

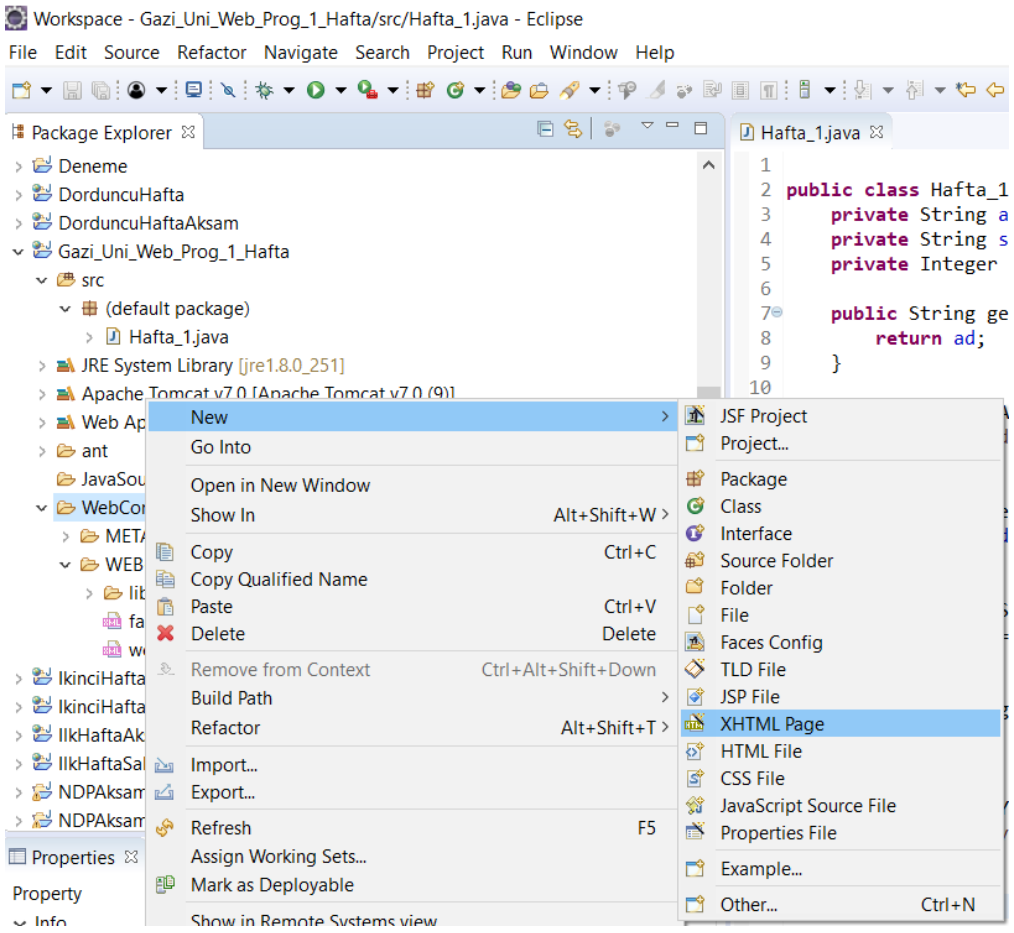


İlk Uygulama Ve Test

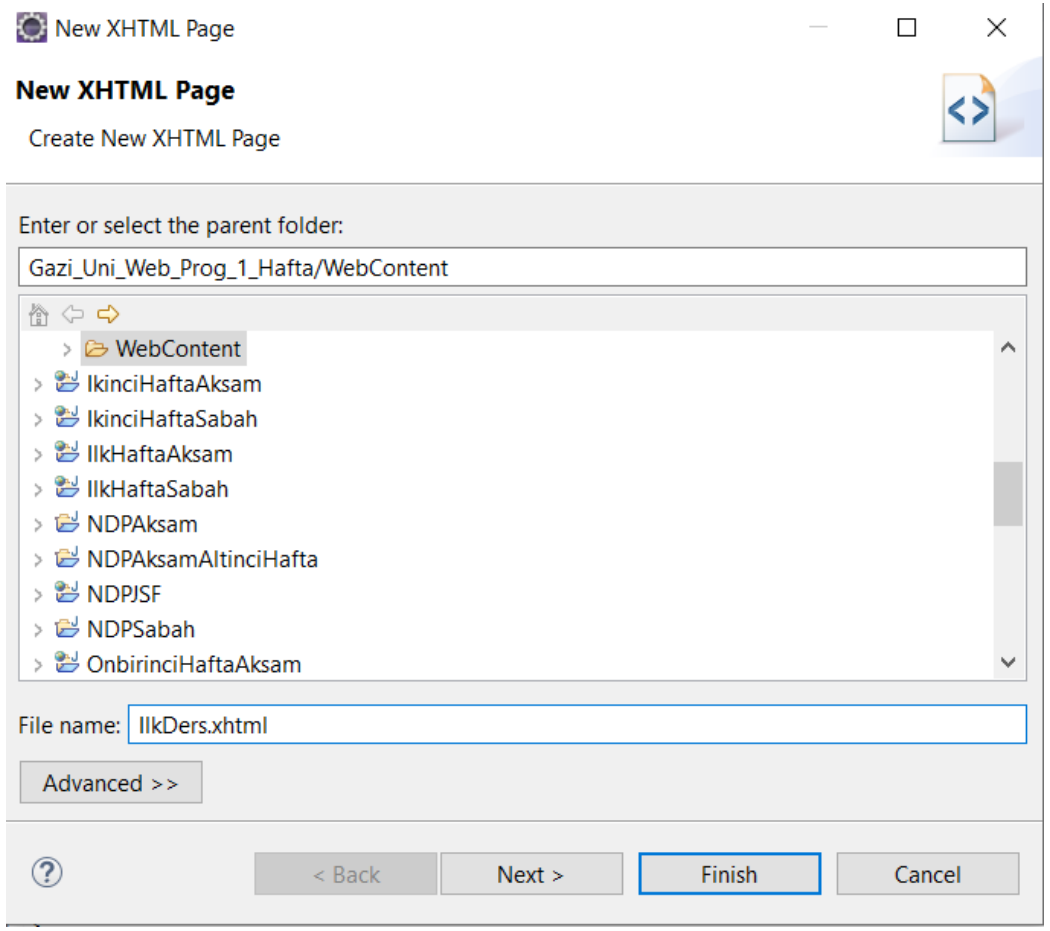
Hafta_1.java

```java

public class Hafta_1 {
    private String ad;
    private String soyad;
    private Integer yas;

    public String getAd() {
        return ad;
    }

    public void setAd(String ad) {
        this.ad = ad;
    }

    public String getSoyad() {
        return soyad;
    }

    public void setSoyad(String soyad) {
        this.soyad = soyad;
    }

    public Integer getYas() {
        return yas;
    }

    public void setYas(Integer yas) {
        this.yas = yas;
    }
}
```

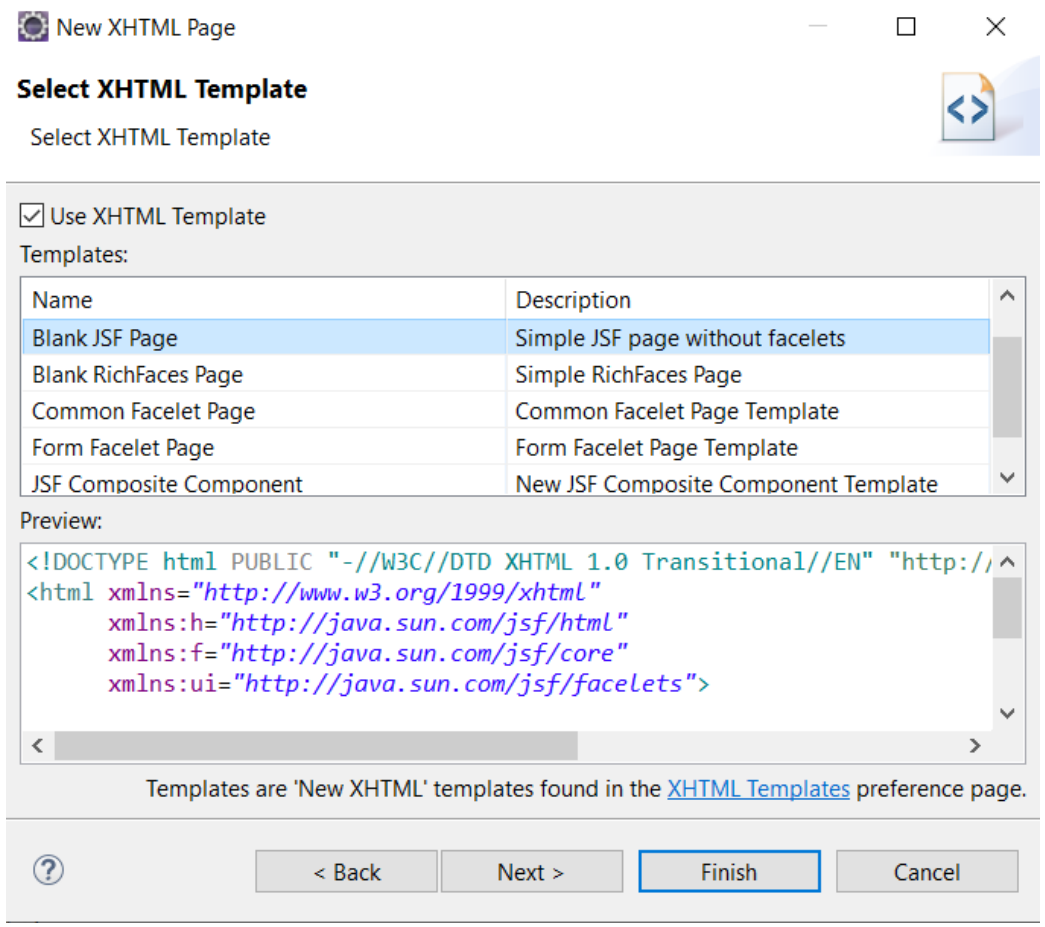
İlk Uygulama Ve Test



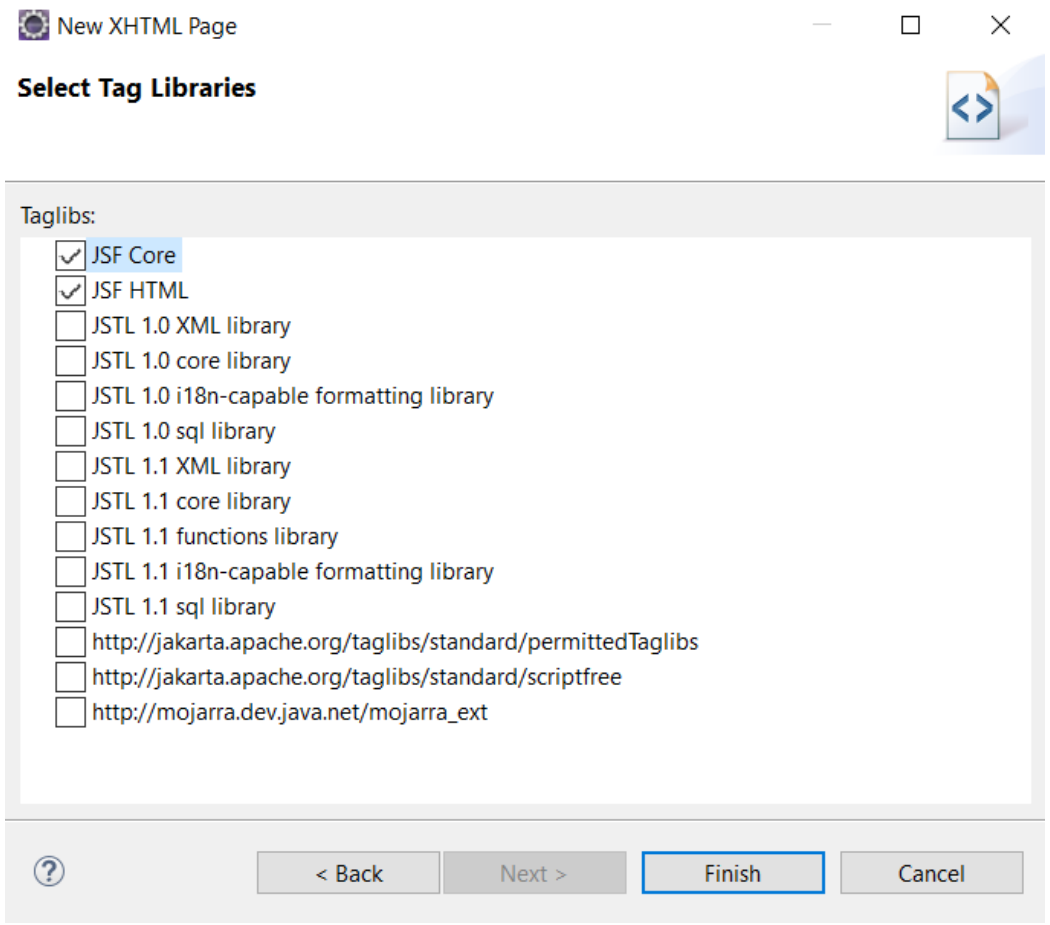
İlk Uygulama Ve Test



İlk Uygulama Ve Test



İlk Uygulama Ve Test

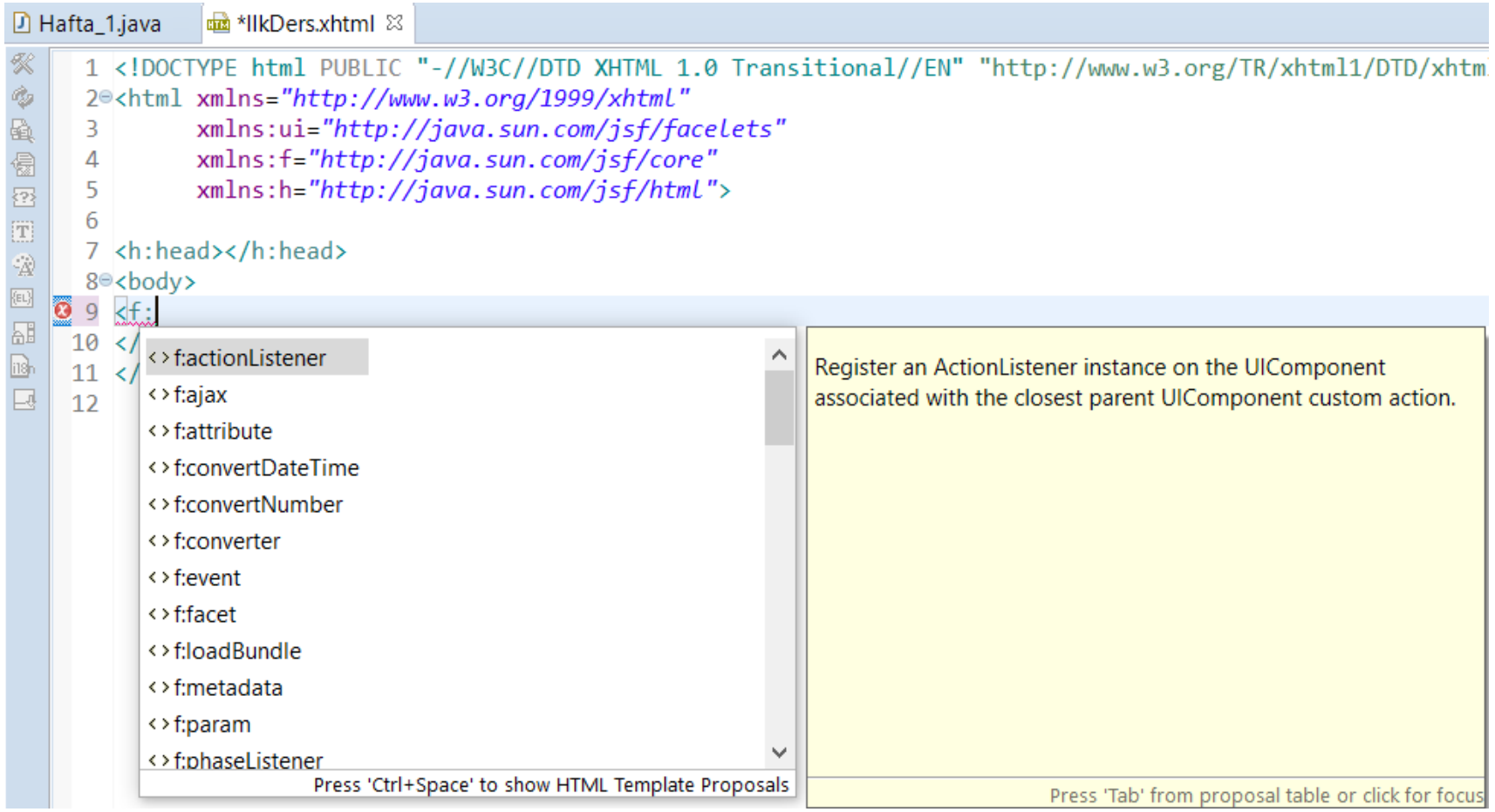


İlk Uygulama Ve Test

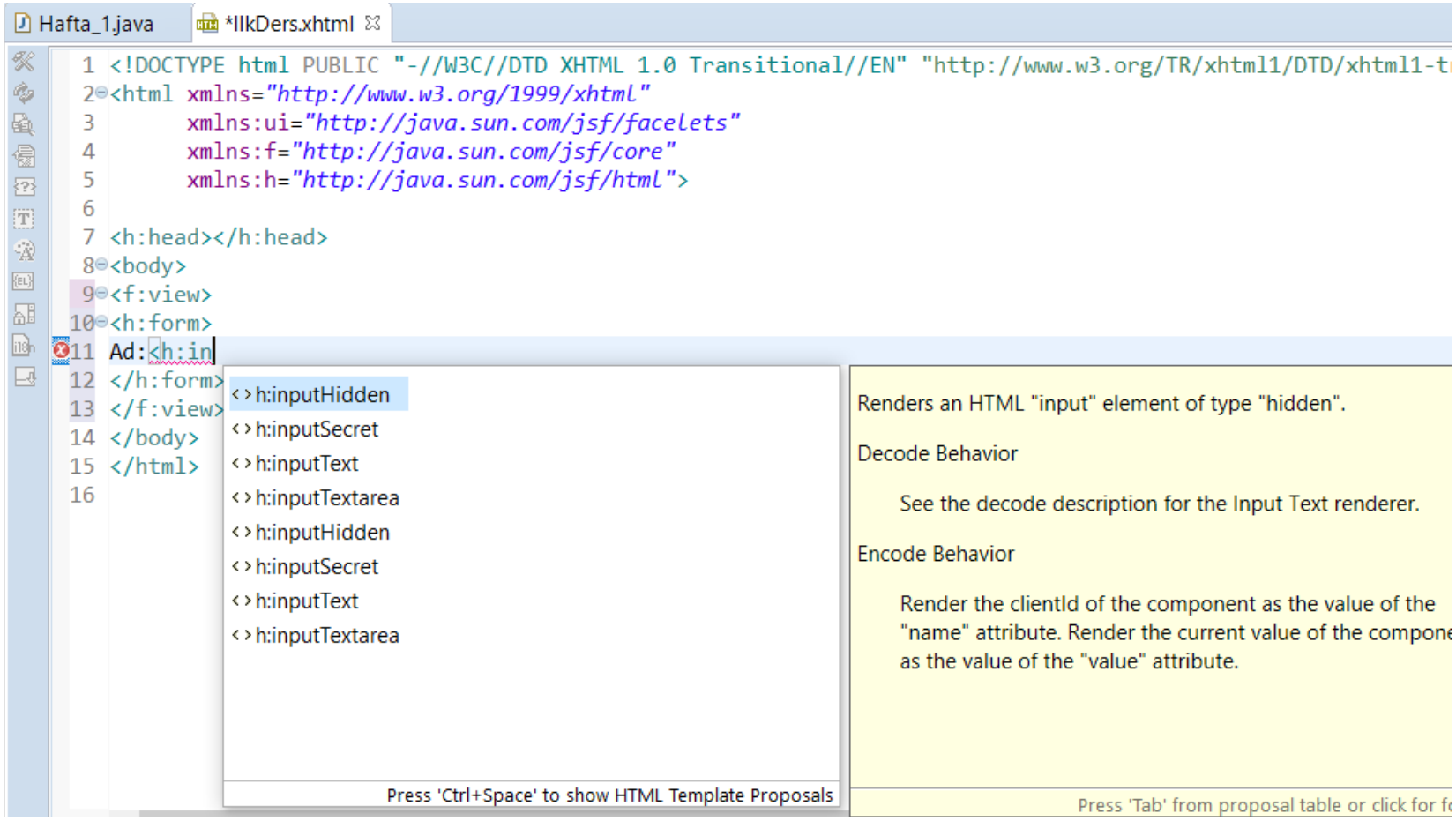
Hafta_1.java | IlkDers.xhtml

```
1  <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/
2  <html xmlns="http://www.w3.org/1999/xhtml"
3        xmlns:ui="http://java.sun.com/jsf/facelets"
4        xmlns:f="http://java.sun.com/jsf/core"
5        xmlns:h="http://java.sun.com/jsf/html">
6
7  <h:head></h:head>
8  <body>
9
10 </body>
11 </html>
12
```

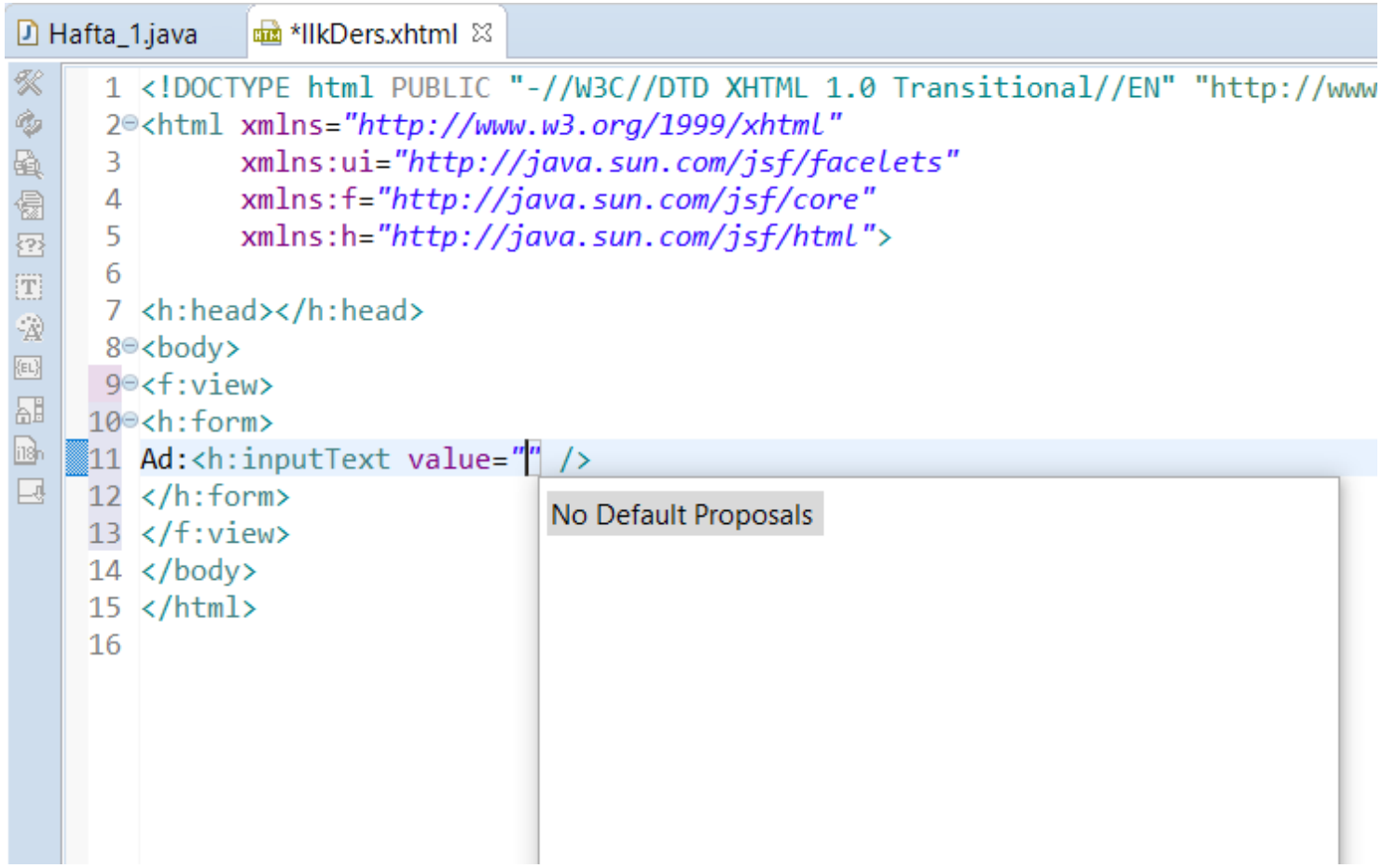
İlk Uygulama Ve Test



İlk Uygulama Ve Test



İlk Uygulama Ve Test

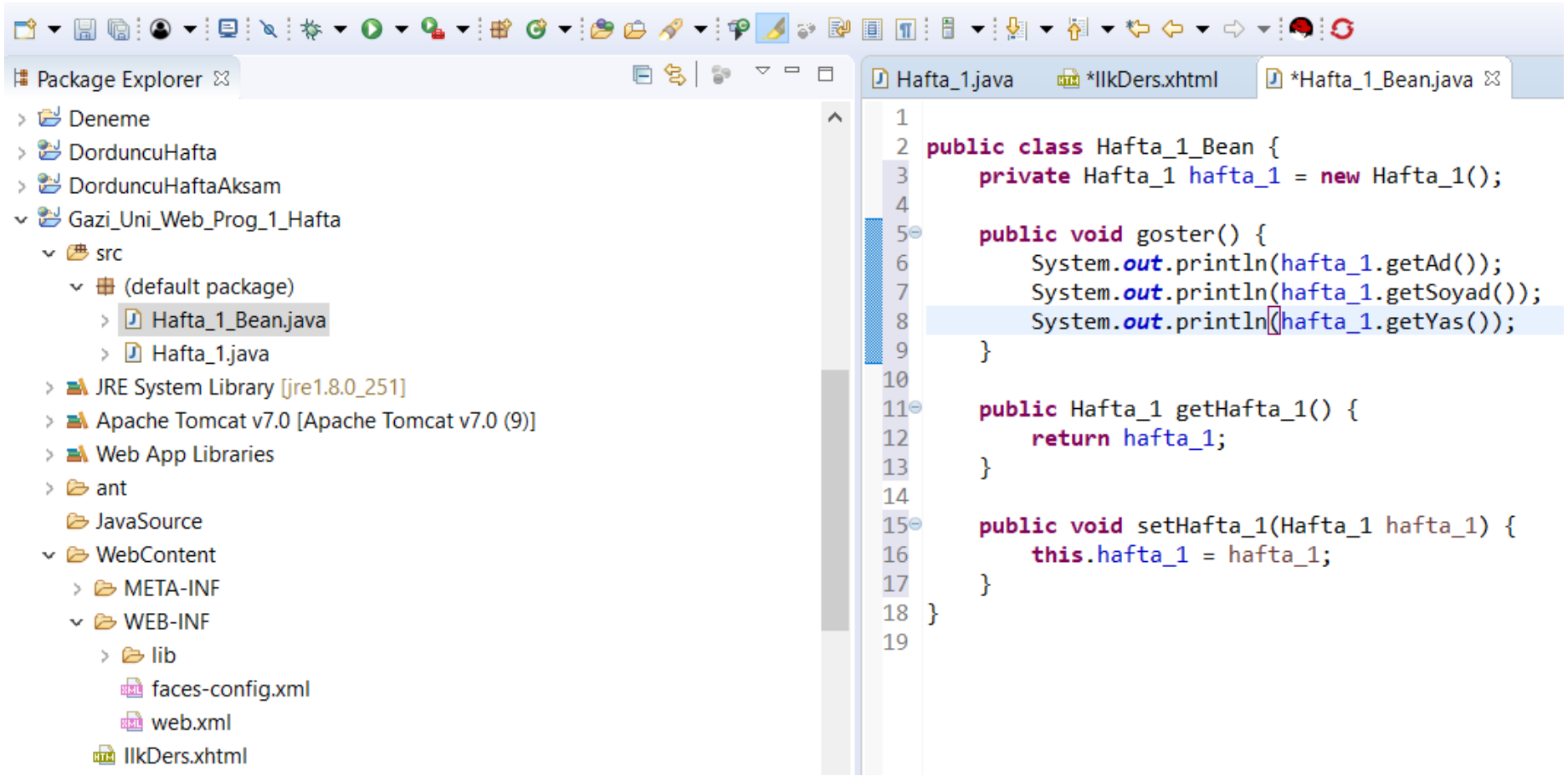


İlk Uygulama Ve Test

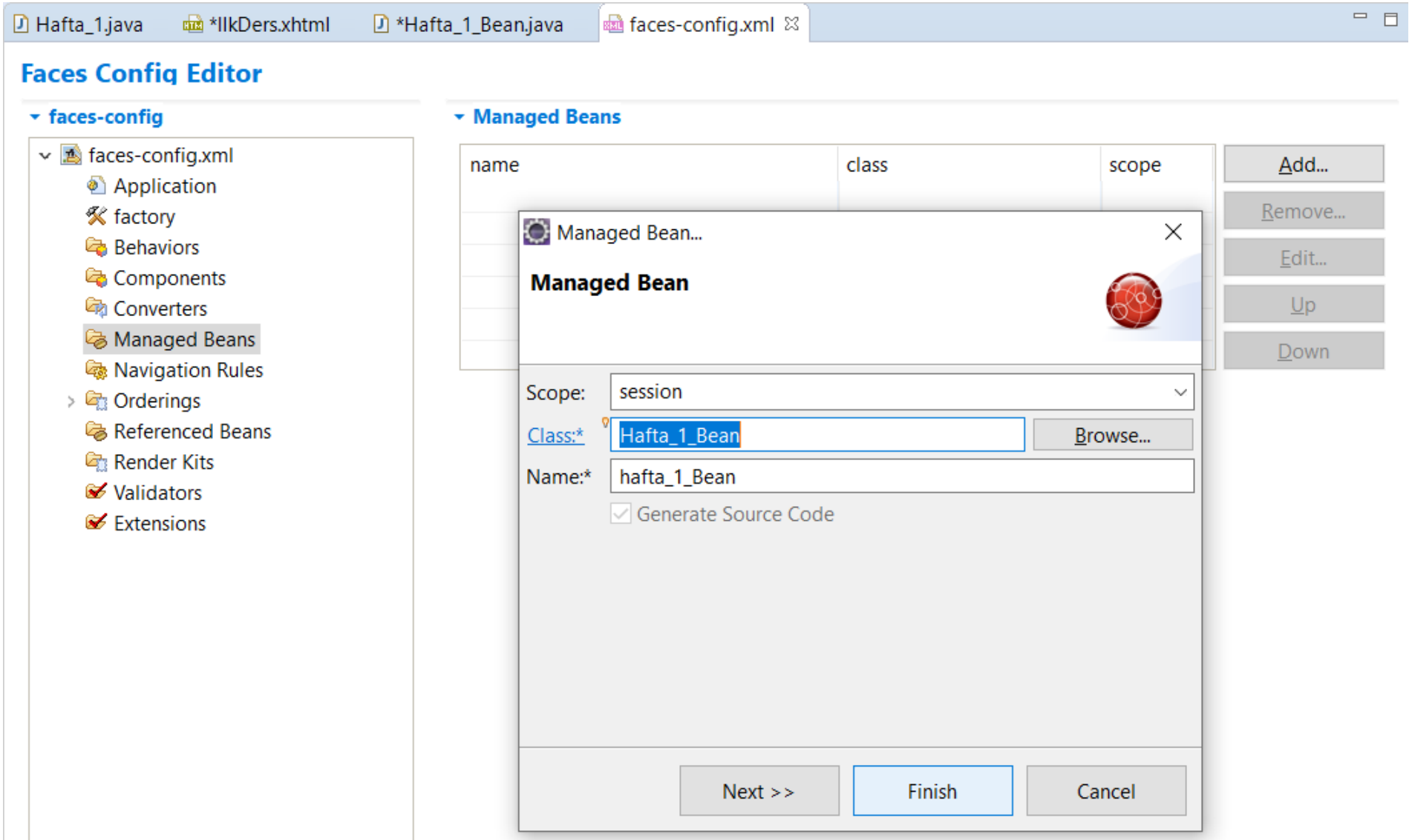
Hafta_1.java | *IlkDers.xhtml

```
1  <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//E
2  <html xmlns="http://www.w3.org/1999/xhtml"
3      xmlns:ui="http://java.sun.com/jsf/facelets"
4      xmlns:f="http://java.sun.com/jsf/core"
5      xmlns:h="http://java.sun.com/jsf/html">
6
7  <h:head></h:head>
8  <body>
9      <f:view>
10         <h:form>
11             Ad:<h:inputText value="" />
12             Soyad:<h:inputText value="" />
13             Yas:<h:inputText value="" />
14         </h:form>
15     </f:view>
16 </body>
17 </html>
18
```

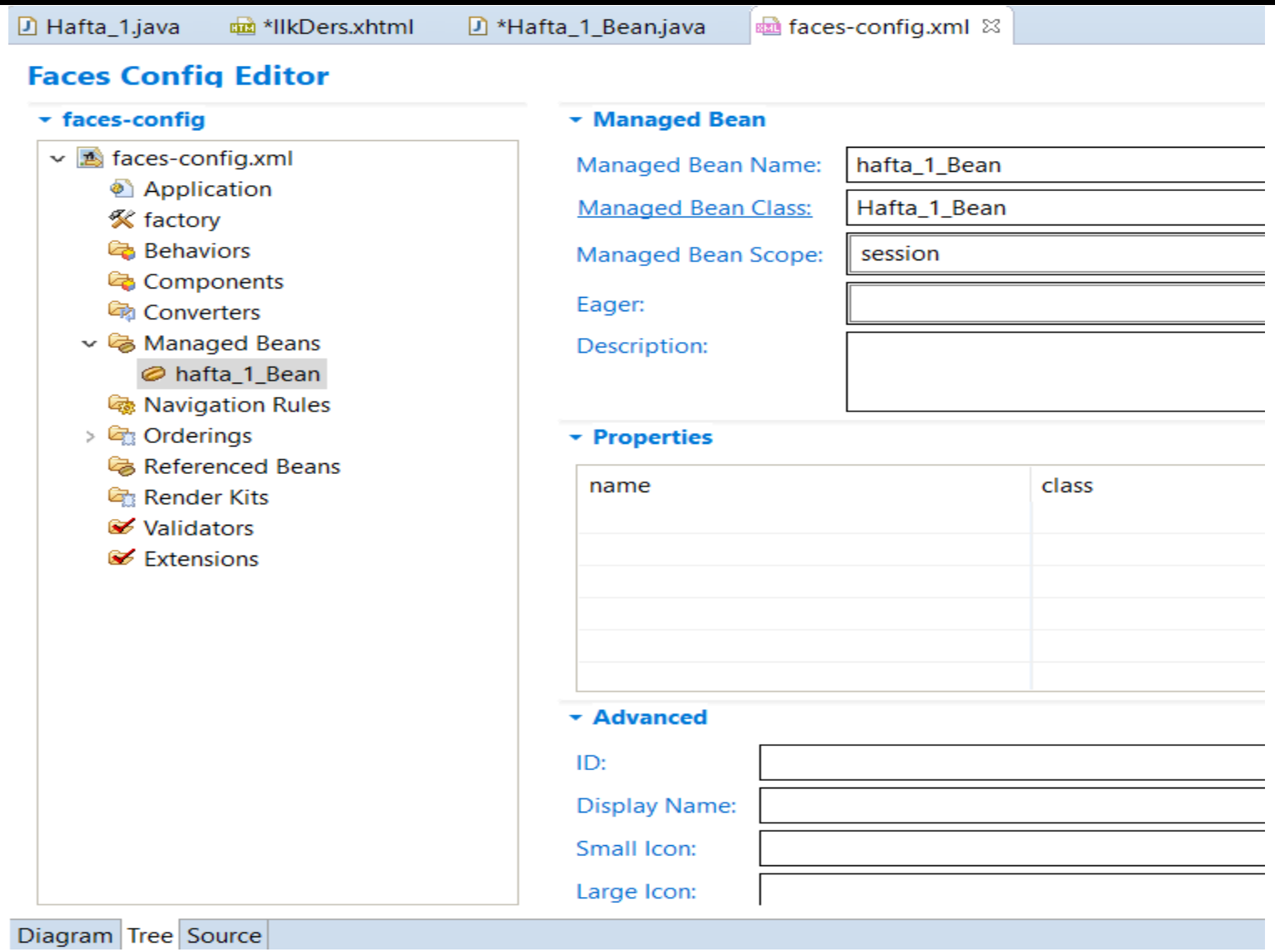
İlk Uygulama Ve Test



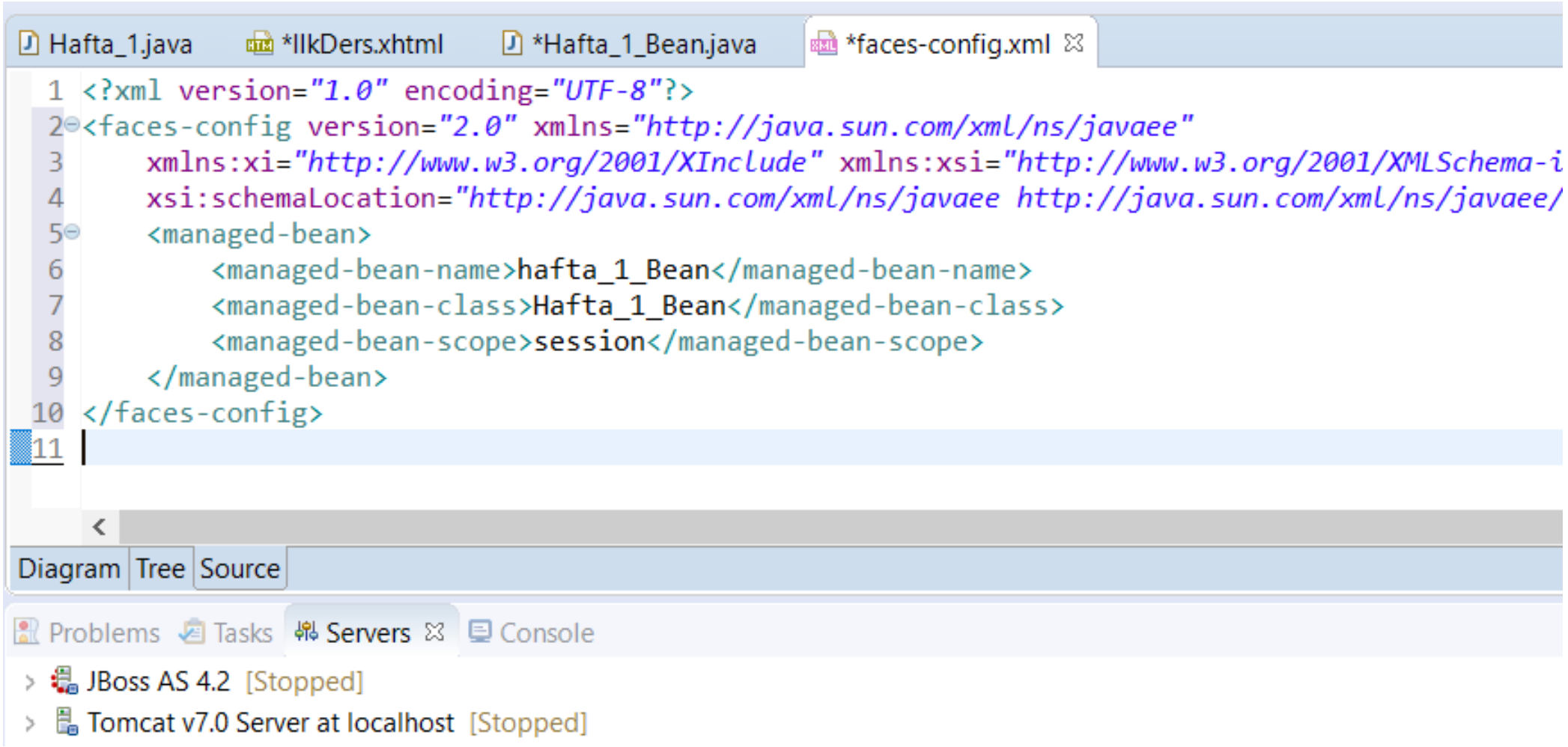
İlk Uygulama Ve Test



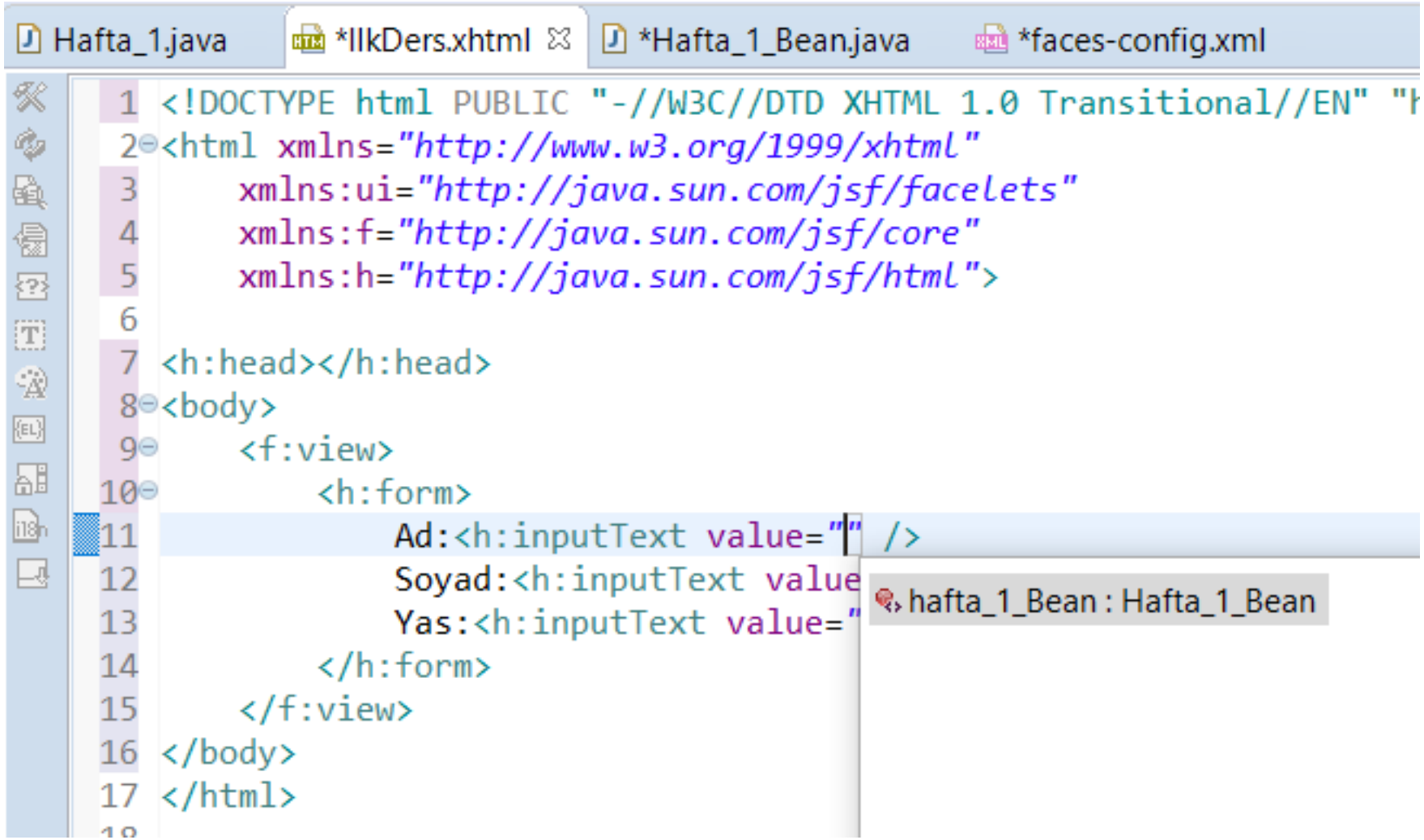
İlk Uygulama Ve Test



İlk Uygulama Ve Test



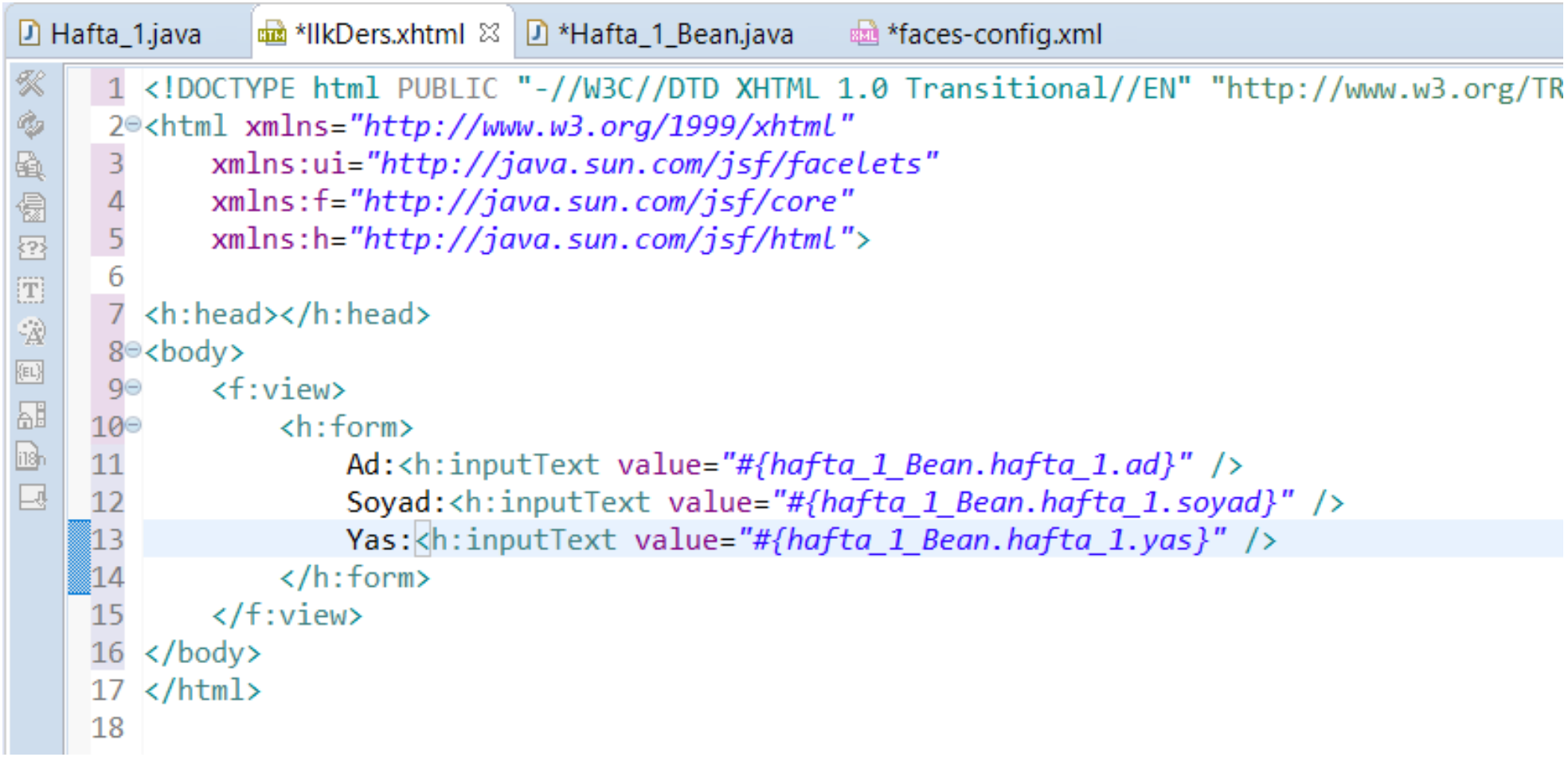
İlk Uygulama Ve Test



İlk Uygulama Ve Test

İlk Uygulama Ve Test

İlk Uygulama Ve Test

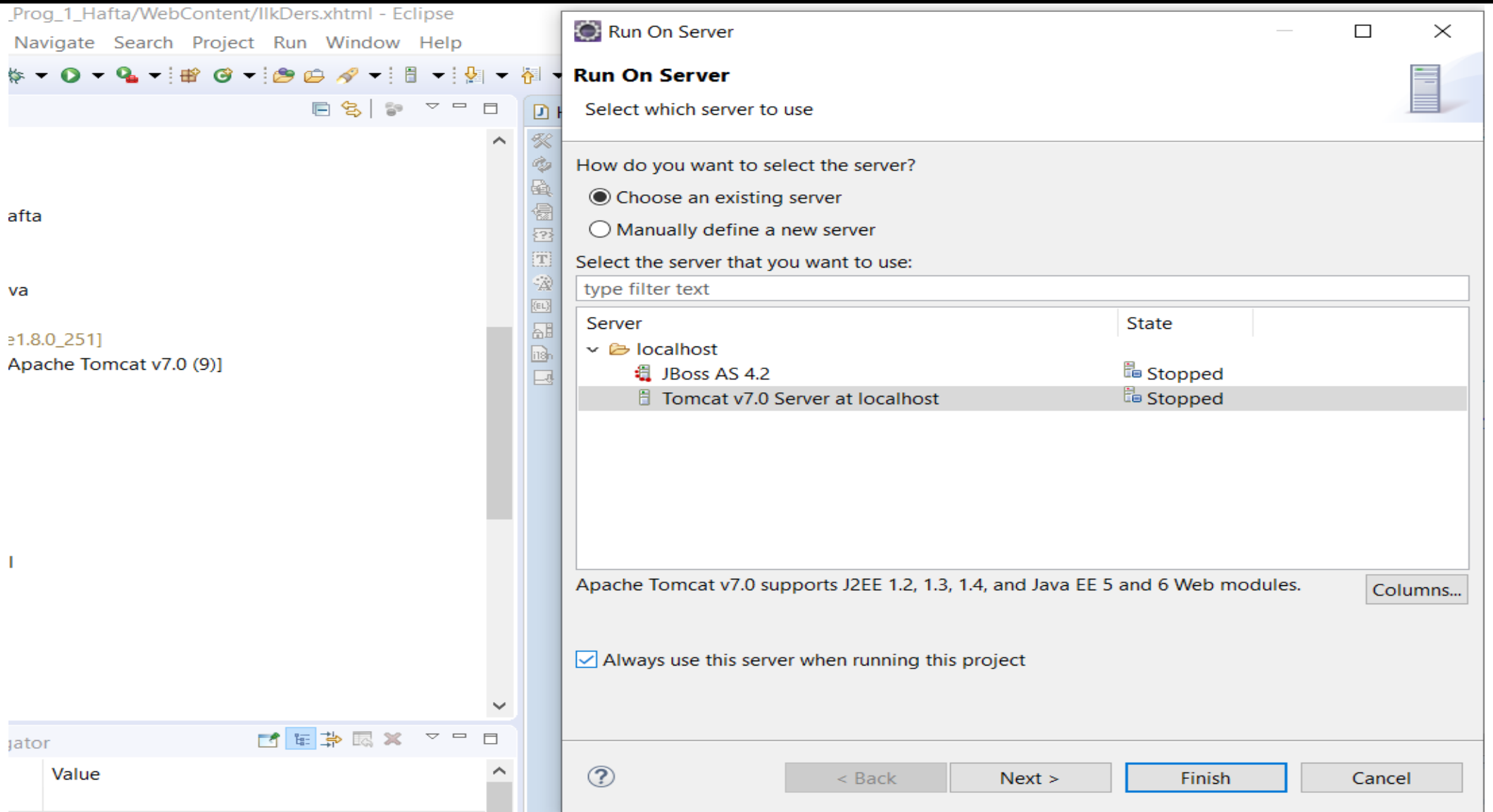


İlk Uygulama Ve Test

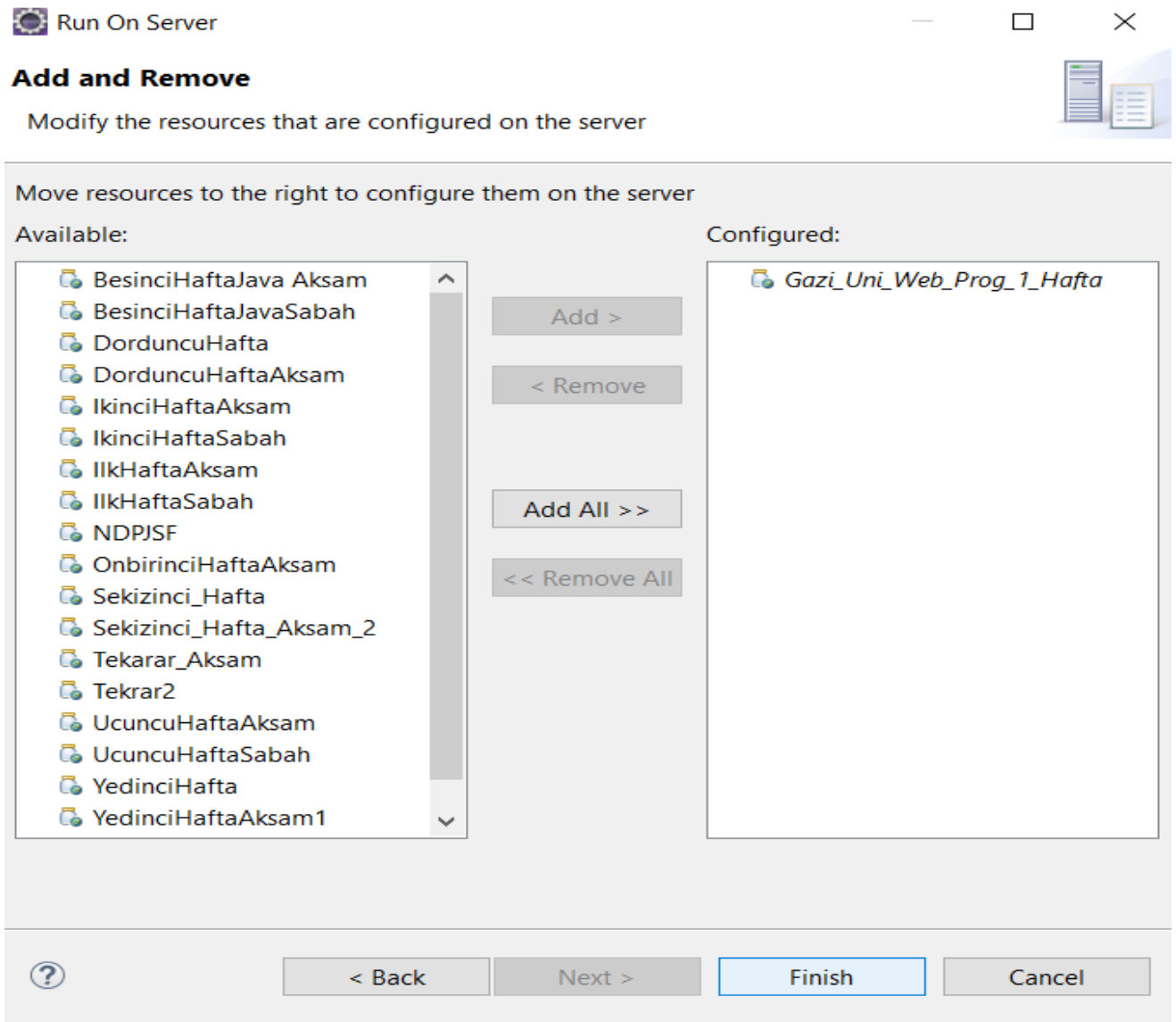
Hafta_1.java | *IlkDers.xhtml | *Hafta_1_Bean.java | *faces-config.xml

```
1  <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD
2  <html xmlns="http://www.w3.org/1999/xhtml"
3      xmlns:ui="http://java.sun.com/jsf/facelets"
4      xmlns:f="http://java.sun.com/jsf/core"
5      xmlns:h="http://java.sun.com/jsf/html">
6
7  <h:head></h:head>
8  <body>
9      <f:view>
10         <h:form>
11             Ad:<h:inputText value="#{hafta_1_Bean.hafta_1.ad}" />
12             Soyad:<h:inputText value="#{hafta_1_Bean.hafta_1.soyad}" />
13             Yas:<h:inputText value="#{hafta_1_Bean.hafta_1.yas}" />
14             <h:commandButton action="#{hafta_1_Bean.goster()}" value="Kaydet" />
15         </h:form>
16     </f:view>
17 </body>
18 </html>
19
```

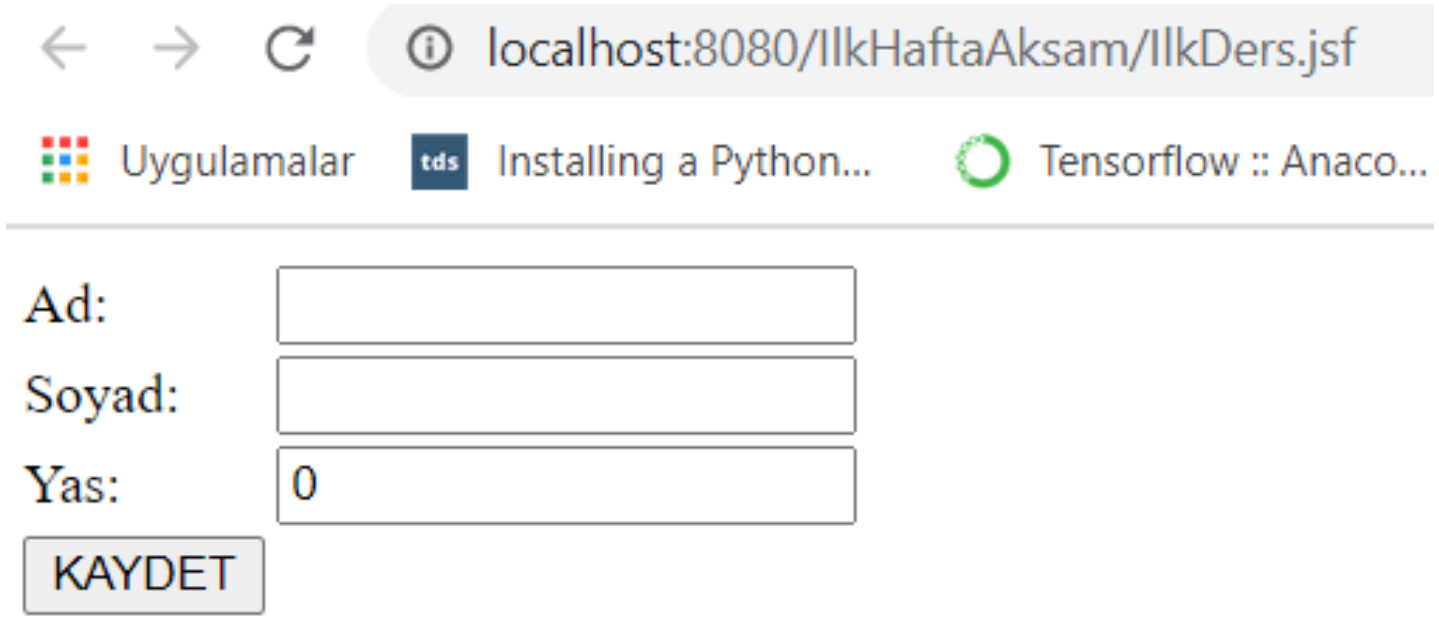
İlk Uygulama Ve Test



İlk Uygulama Ve Test



İlk Uygulama Ve Test



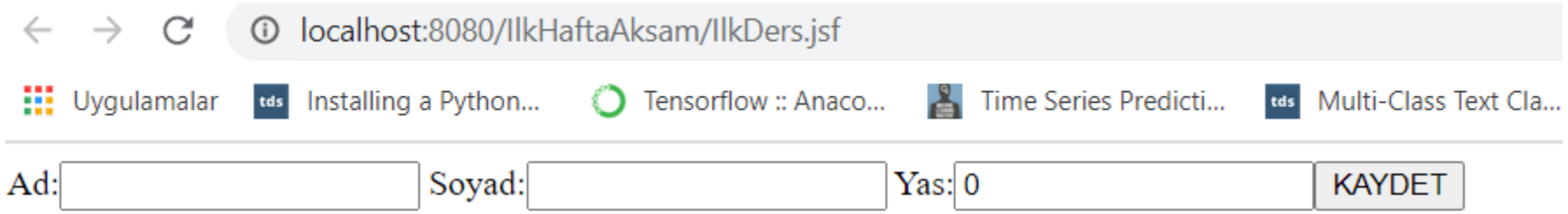
İlk Uygulama Ve Test

view-source:localhost:8080/IlkHaftaAksam/IlkDers.jsf

Uygulamalar | Installing a Python... | Tensorflow :: Anaco... | Time Series Predicti... | Multi-Class Text Cla... | LSTM to Predict Sto... | Sentiment classifica... | Unde

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" xmlns:p="http://primefaces.org/ui"><head></head>
<body>
<form id="j_idt5" name="j_idt5" method="post" action="/IlkHaftaAksam/IlkDers.jsf" enctype="application/x-www-form-urlencoded">
<input type="hidden" name="j_idt5" value="j_idt5" />
<table>
<tbody>
<tr>
<td>
                Ad:</td>
<td><input type="text" name="j_idt5:j_idt8" /></td>
</tr>
<tr>
<td>
                Soyad:</td>
<td><input type="text" name="j_idt5:j_idt10" /></td>
</tr>
<tr>
<td>
                Yas:</td>
<td><input type="text" name="j_idt5:j_idt12" value="0" /></td>
</tr>
<tr>
<td><input type="submit" name="j_idt5:j_idt14" value="KAYDET" /></td>
</tr>
</tbody>
</table>
<input type="hidden" name="javax.faces.ViewState" id="javax.faces.ViewState" value="-8571032231290732208:6014051040027876638" autocomplete="off" />
</form>
</body>
</html>
```

İlk Uygulama Ve Test



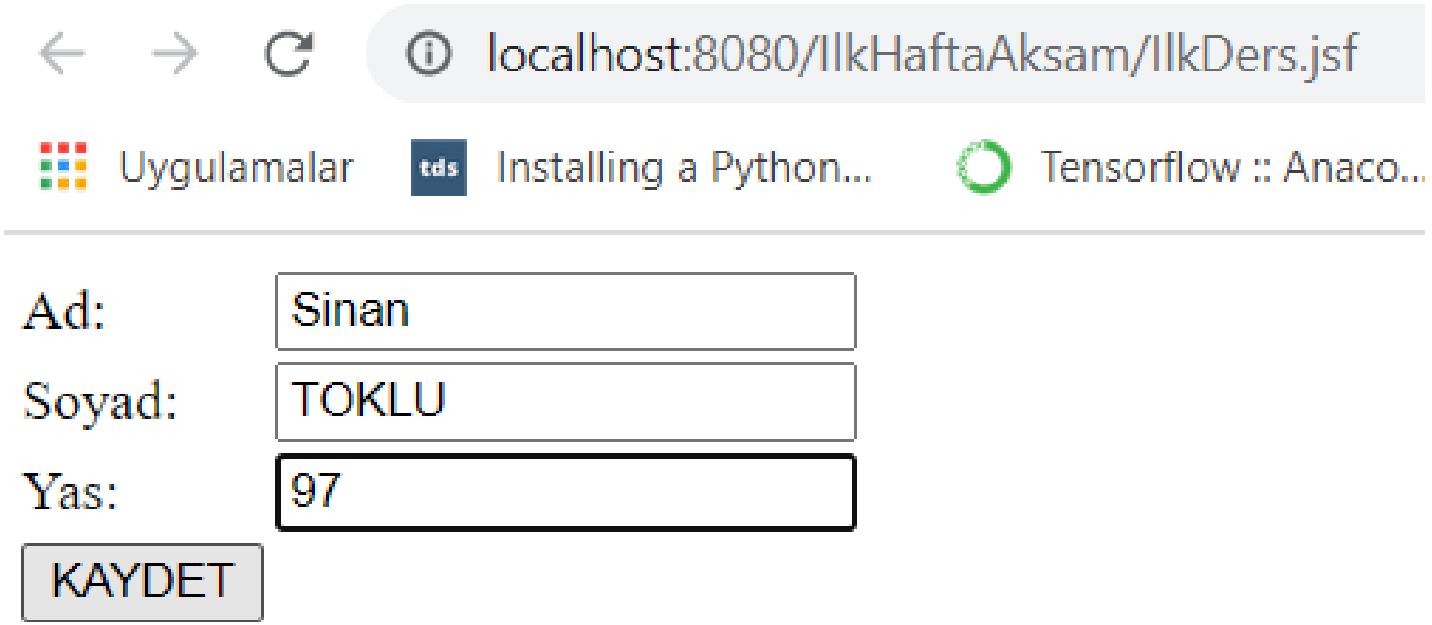
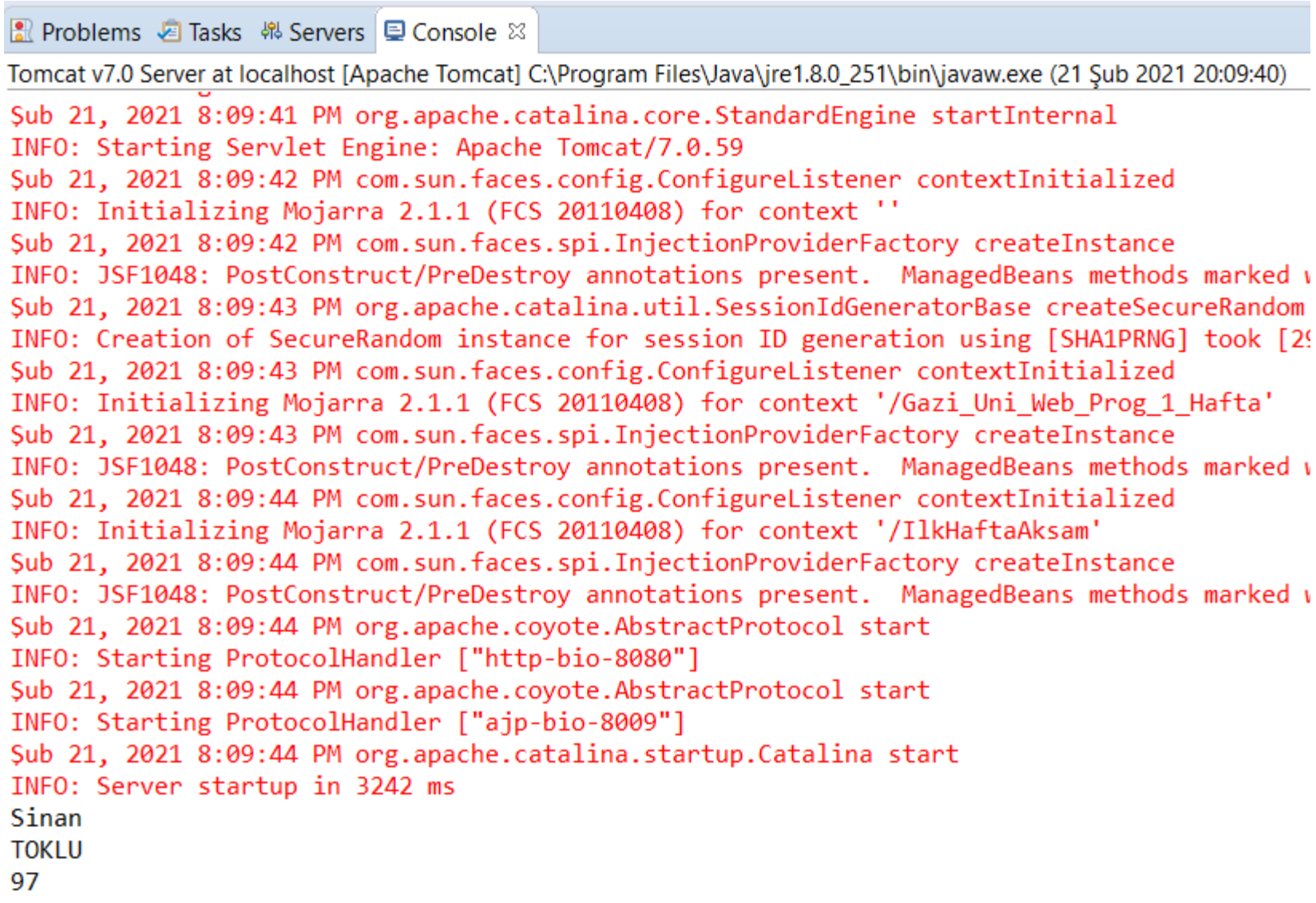
İlk Uygulama Ve Test

view-source:localhost:8080/IlkHaftaAksam/IlkDers.jsf

Uygulamalar | Installing a Python... | Tensorflow :: Anaco... | Time Series Predicti... | Multi-Class Text Cla... | LSTM to Predict Sto... | Sentiment classifica... | Understan

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" xmlns:p="http://primefaces.org/ui"><head></head>
<body>
<form id="j_idt5" name="j_idt5" method="post" action="/IlkHaftaAksam/IlkDers.jsf" enctype="application/x-www-form-urlencoded">
<input type="hidden" name="j_idt5" value="j_idt5" />

                Ad:<input type="text" name="j_idt5:j_idt6" />
                Soyad:<input type="text" name="j_idt5:j_idt7" />
                Yas:<input type="text" name="j_idt5:j_idt8" value="0" /><input type="submit" name="j_idt5:j_idt10" value="KAYDET" /><input type="hidden"
value="1377233770318558119:1758221107651316377" autocomplete="off" />
</form>
</body>
</html>
```

İlk Uygulama Ve Test



İlk Uygulama Ve Test