

ITB
Enterprise Computing
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Exercise Assignment 6

6: EJB: Simple Session Bean

Implement and deploy an EJB application that provides a Stateful Session Bean with a `greeting` property and a method `greet()` that returns the value of the EJB Bean object's `greeting` field concatenated with the argument string. The application should also include a client that changes the value of the `greeting` property and calls the `greet()` method.

Change the Session Bean to a Stateless Session Bean. Document the differences in the behavior.

Test your application by starting client and server on different machines. For the Payara/Glassfish JavaEE server, section <https://glassfish.org/docs/latest/application-development-guide/java-clients.html> in application-development-guide describes how to invoke a Session Bean from a remote client. The application-development-guide.pdf document can be downloaded from <https://glassfish.org/docs/>.

The following tutorials may help you to make yourself familiar with the subject.

Online tutorials:

Eclipse:

<https://www.eclipse.org/downloads/packages/release/2022-03/r/eclipse-ide-enterprise-java-and-web-developers>
<http://help.eclipse.org/>
<https://docs.payara.fish/documentation/ecosystem/eclipse-plugin.html>

IntelliJ:

<https://www.jetbrains.com/help/idea/creating-and-running-your-first-java-ee-application.html>
<https://www.jetbrains.com/help/idea/ejb.html>
<https://www.jetbrains.com/help/idea/2020.1/ejb.html>

Netbeans 8:

<http://netbeans.org/kb/docs/javaee/entappclient.html>
<http://netbeans.org/kb/docs/javaee/javaee-entapp-ejb.html>

Embeddable EJB Container:

<http://netbeans.org/kb/docs/javaee/javaee-entapp-junit.html>
<http://docs.oracle.com/cd/E19798-01/821-1754/gjIde/index.html>

Payara/Glassfish:

<https://www.payara.fish/>
<https://www.payara.fish/learn/resources/>
<https://docs.payara.fish/>

<https://glassfish.org/>
<https://glassfish.org/documentation>
<https://glassfish.org/docs/>

Alternative JavaEE Servers:

WildFly:
<http://wildfly.org/>

Apache TomEE:

<http://tomee.apache.org/>

Open Liberty (IBM):

<https://openliberty.io/>