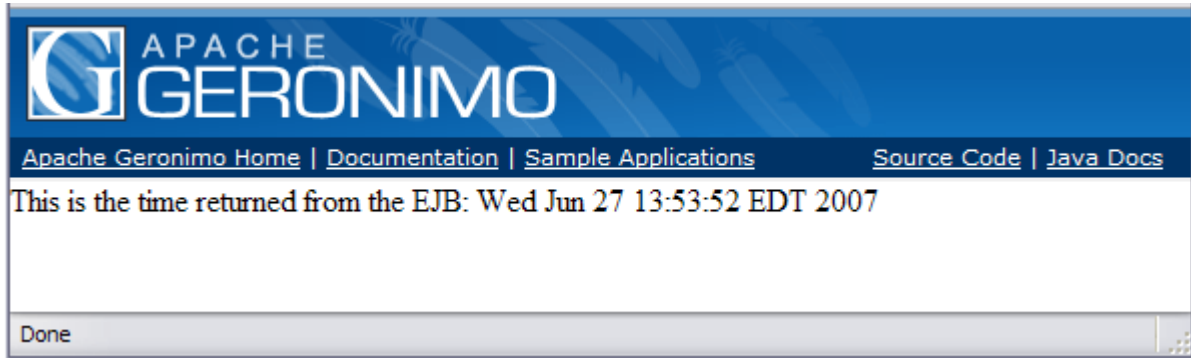


9.i. EJB

{scrollbar}

Time Bean

Bean JSP



Geronimo 2.0Java 1.5EJB 3.0

Application Contents

MyTimeBean.java EJB org.apache.geronimo.samples.mytimepak EJB @Stateless Geronimo Bean ejb-jar.xml

```
javasolidMyTimeBean.java package org.apache.geronimo.samples.mytimepak; import javax.ejb.Stateless; @Stateless public class MyTimeBean implements MyTimeLocal { public String getTime() { String s = new java.util.Date().toString(); return s; } }
```

MyTimeLocal.java EJB JVM JSP

```
javasolidMyTimeLocal.java package org.apache.geronimo.samples.mytimepak; public interface MyTimeLocal { public java.lang.String getTime() ; }
```

openejb-jar.xml does nothing but specifies the module's information.

openejb-jar.xml

```
xmllsolidopenejb-jar.xml <?xml version="1.0" encoding="UTF-8"?> <openejb-jar xmlns="http://www.openejb.org/xml/ns/openejb-jar-2.1" xmlns:name="http://geronimo.apache.org/xml/ns/naming-1.1" xmlns:pkggen="http://www.openejb.org/xml/ns/pkggen-2.0" xmlns:sec="http://geronimo.apache.org/xml/ns/security-1.1" xmlns:sys="http://geronimo.apache.org/xml/ns/deployment-1.2"> <sys:environment> <sys:moduleId> <sys:groupId>${pom.groupId}</sys:groupId> <sys:artifactId>${pom.artifactId}</sys:artifactId> <sys:version>${version}</sys:version> <sys:type>jar</sys:type> </sys:moduleId> </sys:environment> </openejb-jar>
```

index.jsp MyTimeBean

```
javasolidindex.jsp <%@ page contentType="text/html" import="org.apache.geronimo.samples.mytimepak.*, javax.naming.*" %> <html><head><title>Time</title></head><body> <% String s=""; // Just declare a string try { // This creates a context, it can be used to lookup EJBs. Using normal RMI you would // have to know port number and stuff. The InitialContext holds info like // server names, ports and stuff I guess. Context context = new InitialContext(); // MyTimeLocalHome is a reference to the EJB MyTimeLocal myTimeLocal = (MyTimeLocal)context.lookup("java:comp/env/ejb/MyTimeBean"); // So, just go ahead and call a method (in this case the only method). s = myTimeLocal.getTime(); } catch (Exception e) { s=e.toString(); } %> This is the time returned from the EJB: <%=s%> </body></html>
```

geronimo-web.xml web-app url

```
xmllsolidgeronimo-web.xml <?xml version="1.0" encoding="UTF-8"?> <web-app xmlns="http://geronimo.apache.org/xml/ns/j2ee/web-1.1" xmlns:name="http://geronimo.apache.org/xml/ns/naming-1.1" xmlns:sec="http://geronimo.apache.org/xml/ns/security-1.1" xmlns:sys="http://geronimo.apache.org/xml/ns/deployment-1.1"> <sys:environment> <sys:moduleId> <sys:groupId>${pom.groupId}</sys:groupId> <sys:artifactId>${pom.artifactId}</sys:artifactId> <sys:version>${version}</sys:version> <sys:type>war</sys:type> </sys:moduleId> </sys:environment> <context-root>/mytime</context-root> </web-app>
```

web.xml EJB WEB-INF/classes/org/apache/geronimo/samples/mytimepak

```
xmllsolidweb.xml <?xml version="1.0" encoding="UTF-8"?> <web-app id="WebApp_ID" version="2.4" xmlns="http://java.sun.com/xml/ns/j2ee" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://java.sun.com/xml/ns/j2ee http://java.sun.com/xml/ns/j2ee/web-app_2_4.xsd"> <display-name>MyTimeWeb</display-name> <welcome-file-list> <welcome-file>index.jsp</welcome-file> </welcome-file-list> <!-- To refer local EJB's --> <ejb-local-ref> <ejb-ref-name>ejb/MyTimeBean</ejb-ref-name> <ejb-ref-type>Session</ejb-ref-type> <local>org.apache.geronimo.samples.mytimepak.MyTimeLocal</local> </ejb-local-ref> </web-app>
```

Apache Maven 2

Maven Java Maven Ant make Maven 1 Maven 2 Maven 2 URL
<http://maven.apache.org>

mytime
[MyTime](#) (:)

mytime

SVN

svn checkout <http://svn.apache.org/repos/asf/geronimo/samples/trunk/samples/mytime>

: Windows svn <http://subversion.tigris.org/>

mytime mvn clean install site mytime mytime-ear-2.0-SNAPSHOT.ear Geronimo mytime

Geronimo Console

1. Console Navigation **Deploy New**
2. **Archive mytime mytime-ear-2.0-SNAPSHOT.ear**
3. **Install**

MyTime

<http://localhost:8080/mytime>