

4.5. JBoss to Geronimo - EJB-

J2EEJavaEJBJavaEJBJava
EJBEJBEJBEJB
EJBEJBEJB

- [EJB](#)
-
- [JBoss](#)
- [Geronimo](#)
-

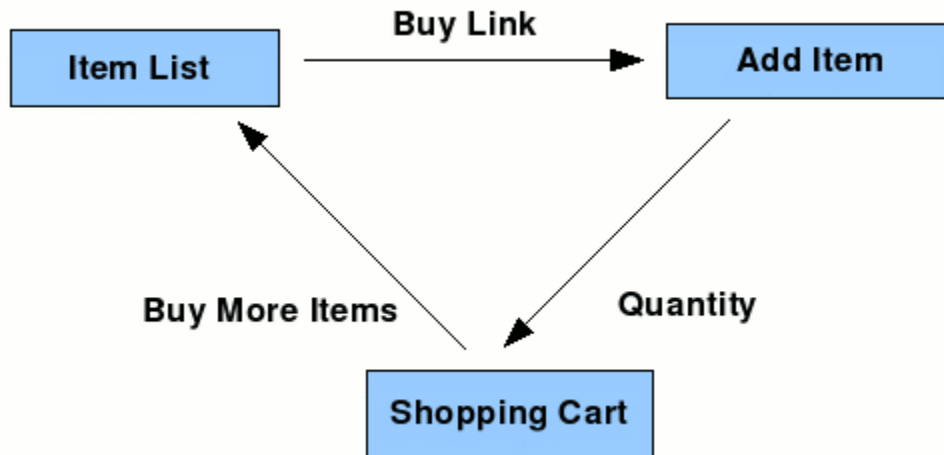
EJB

EJBJBossApache Geronimo

	JBoss v4.0.5	Apache Geronimo (OpenEJB)
BMP (Bean Managed Persistence)		
CMP (Container Managed Persistence)		
(MDBs)		
RMI-IIOP JAXRPC		
MDBWeb		
Web		
EJB JMXWeb		
CORBAEJB		

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eWeb



Web

JSP

- org.apache.geronimo.samples.computer.dto
 - ItemDTO - WebEJB
 - TransactionDTO - WebEJB
- org.apache.geronimo.samples.computer.ejb
 - ItemServiceBean -
 - ShoppingCartBean -
- org.apache.geronimo.samples.computer.web
 - ItemServiceDispatchServlet - Web
 - ShoppingCartDispatchServlet - Web

eJSP

- buy_item.jsp -
- error.jsp -
- index.jsp -
- list_items.jsp -
- shopping_cart.jsp -

Eclipse

Eclipse JBoss GeronimoEclipseURL
<http://www.eclipse.org>

Apache Ant

AntJavawarAntAntURL
<http://ant.apache.org>

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JBoss

JBossJBoss v4.0.5

JBossWeb

1. JBoss v4 <jboss_home>
2. JBoss v4<jboss_home>\server\default <jboss_home>\server\<your_server_name>

3. `<jboss_home>\bin run.sh -c <>`
4. WebURL: <http://localhost:8080> JBoss
JBossWelcomeJBoss
- 5.

Ant

Ant

Apache AntAntpath `<ant_home>\bin`

Apache AntURL
<http://ant.apache.org>

XDoclet

XDocletXDocletletJava(Attribute)JavaDoc
XDocletEJBXDoclet

<http://xdoclet.sourceforge.net/xdoclet/index.html>

XDoclet**build.properties** `xdoclet.home`

Ant

[Computer](#)

zip **computer** build.properties

build.properties

```
## Set the Geronimo 1.1 home here
geronimo.home=<geronimo_home>

## Set XDoclet 1.2.3 Home
xdoclet.home=<xdoclet_home>
```

config build.properties `geronimo.home` `xdoclet.home`
computer ant jboss ear release/jboss

computer.ear `computer/releases/jboss` `<jboss_home>/server/<your_server_name>/deploy`

JBossJBoss

WebURL
<http://localhost:8080/computer>

Computer Acessories Seller - Firefox

File Edit View Go Bookmarks Tools Help

←

→

↻

⌂

http://192.168.1.104:8080/computer/

Go

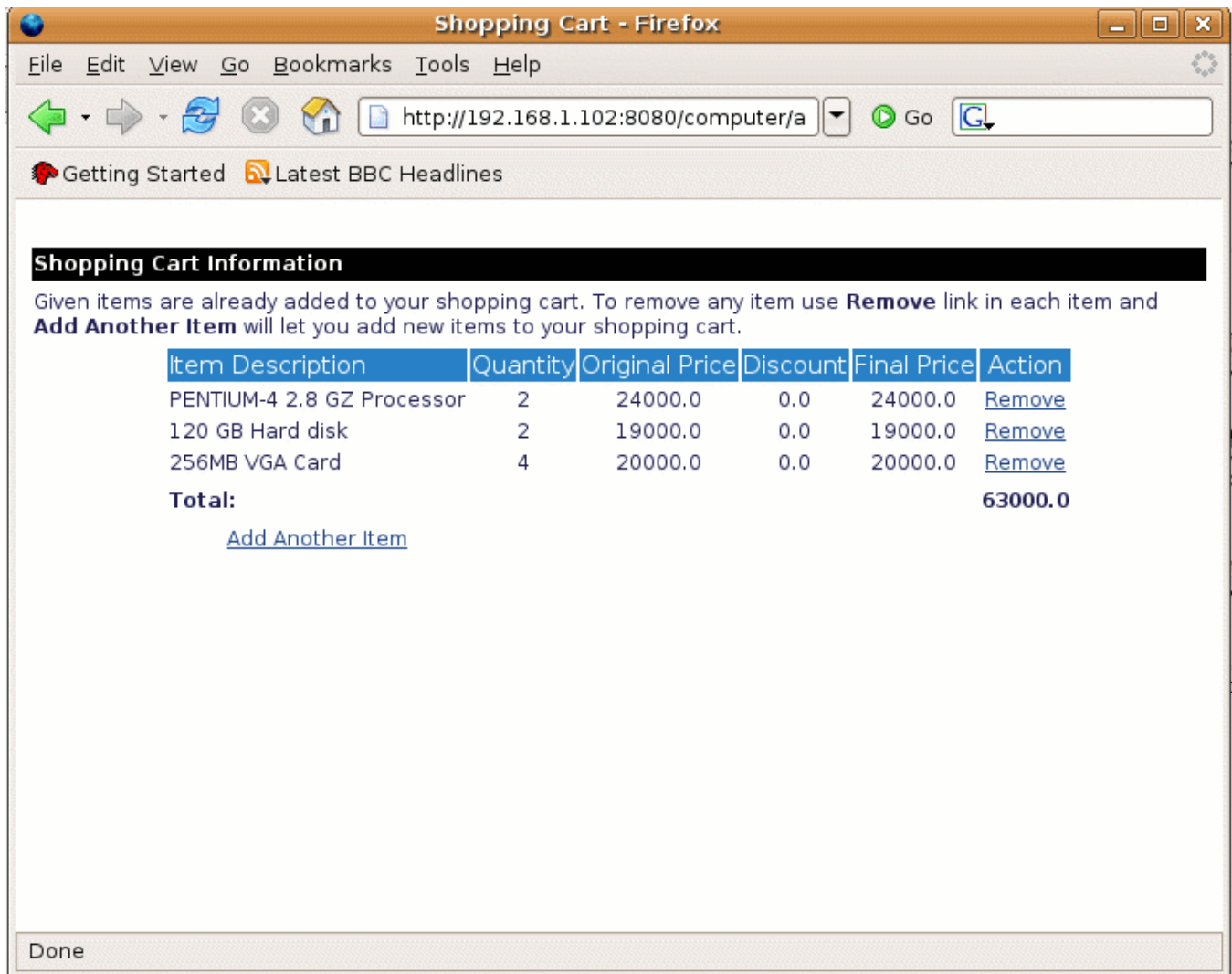
Getting Started Latest BBC Headlines

Computer Acessories Seller

This eCommerce application let you buy computer acessories in both wholesale and retail prices. To get the wholesale price customer has to buy atleast **Discount Quantity** number of items. Then you will get **Discount Percentage** of discount from each item. Also note you are not allowed to add same accessory twice in to your shopping cart.

Item Description	Unit Price	Discount Quantity	Discount Percentage	Action
PENTIUM-4 2.8 GZ Processor	12000.0	10	5.0%	Buy
120 GB Hard disk	9500.0	8	5.0%	Buy
10W CPU Fan	3500.0	15	2.0%	Buy
1G DDR RAM	11500.0	10	8.0%	Buy
256MB VGA Card	5000.0	5	5.0%	Buy
128bit Sound Card	4000.0	10	10.0%	Buy
17' LCD Monitor	22000.0	5	10.0%	Buy
TV Card	5000.0	2	10.0%	Buy
Radio Card	3000.0	2	15.0%	Buy
Bubble-jet Printer	4500.0	5	15.0%	Buy

Done



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Geronimo

URLGeronimo

<http://geronimo.apache.org/downloads.html>

URLGeronimoGeronimo <geronimo_home>



TCP/IP

JBossGeronimo

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AntJBoss **jboss.xml** Geronimo **openejb-jar.xml** **computer/config**

JBoss

jboss.xml

```
<?xml version="1.0" encoding="UTF-8"?>

<jboss>

  <enterprise-beans>

    <session>
      <ejb-name>ShoppingCart</ejb-name>
      <local-jndi-name>ShoppingCart</local-jndi-name>

      <method-attributes>
      </method-attributes>
    </session>
    <session>
      <ejb-name>ItemService</ejb-name>
      <local-jndi-name>ItemService</local-jndi-name>

      <method-attributes>
      </method-attributes>
    </session>

  </enterprise-beans>

  <resource-managers>
  </resource-managers>

</jboss>
```

Geronimo

openejb-jar.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<openejb-jar xmlns="http://www.openejb.org/xml/ns/openejb-jar-2.1">
  <dep:environment xmlns:dep="http://geronimo.apache.org/xml/ns/deployment-1.2">
    <dep:moduleId>
      <dep:groupId>org.apache.geronimo.samples</dep:groupId>
      <dep:artifactId>ComputerEJB</dep:artifactId>
      <dep:version>1.0</dep:version>
      <dep:type>car</dep:type>
    </dep:moduleId>
    <dep:dependencies/>
    <dep:hidden-classes/>
    <dep:non-overridable-classes/>
  </dep:environment>
  <enterprise-beans>
    <session>
      <ejb-name>ShoppingCart</ejb-name>
      <ejb-ref>
        <ref-name>ejb/ItemServiceLocal</ref-name>
        <ejb-link>ItemService</ejb-link>
      </ejb-ref>
    </session>
    <session>
      <ejb-name>ItemService</ejb-name>
    </session>
  </enterprise-beans>
</openejb-jar>
```

GeronimoJBossGeronimoMaven2EJBJBossEJBJNDIGeronimoEJB **openejb-jar.xml** jboss.xml EJB

web

jboss-web.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<jboss-web>

  <!-- EJB Local References -->
  <ejb-local-ref>
    <ejb-ref-name>ejb/ItemServiceLocal</ejb-ref-name>
    <local-jndi-name>ItemService</local-jndi-name>
  </ejb-local-ref>
  <ejb-local-ref>
    <ejb-ref-name>ejb/ShoppingCartLocal</ejb-ref-name>
    <local-jndi-name>ShoppingCart</local-jndi-name>
  </ejb-local-ref>
</jboss-web>
```

geronimo-web.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<web-app xmlns="http://geronimo.apache.org/xml/ns/j2ee/web-1.1" xmlns:naming="http://geronimo.apache.org/xml/ns/naming-1.1">
  <dep:environment xmlns:dep="http://geronimo.apache.org/xml/ns/deployment-1.1">
    <dep:moduleId>
      <dep:groupId>org.apache.geronimo.samples</dep:groupId>
      <dep:artifactId>ComputerWeb</dep:artifactId>
      <dep:version>1.0</dep:version>
      <dep:type>car</dep:type>
    </dep:moduleId>
    <dep:dependencies/>
    <dep:hidden-classes/>
    <dep:non-overridable-classes/>
  </dep:environment>

  <naming:ejb-local-ref>
    <naming:ref-name>ejb/ItemServiceLocal</naming:ref-name>
    <naming:ejb-link>ItemService</naming:ejb-link>
  </naming:ejb-local-ref>

  <naming:ejb-local-ref>
    <naming:ref-name>ejb/ShoppingCartLocal</naming:ref-name>
    <naming:ejb-link>ShoppingCart</naming:ejb-link>
  </naming:ejb-local-ref>
</web-app>
```

jboss-web.xml EJBJNDI**geronimo-web.xml** EJBEBJWAR **web.xml** EJBGeronimo JBoss

computer Geronimo

ant **geronimo**

computer/releases/geronimo **computer.ear**

Geronimo
Geronimo

1. Deploy New
2. Archive **computer/releases/geronimo** **computer.ear**
3. Install

WebURL

<http://localhost:8080/computer>

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