
<JSTORM>

J2EE

XML



JSTORM
<http://www.jstorm.pe.kr>

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Abstract	
Reference	Add XML to your J2EE applications By Eoin Lane Http://www.javaworld.com/javaworld/jw-02-2001/jw-0209-xmlj2ee.html
Benchmark information	

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J2EE

XML ...

J2EE

XML

가

(multitier)
HTML (target device)가
(Eoin Lane) XML
(XML-aware application server with a fully operational end-to-end solution)
J2EE
가 XML
(target-device independence), (Cocoon)
(Apache), jBoss, W3C
가
(powerful), (scalable), (robust)
J2EE
XML (publishing) HTML
HTML J2EE (動的) XML
XML
, 가 (pluggable) XML

J2EE . J2EE
(persistence), (security), (transaction)
(standardized modular component)
,
HTML 가
(content)
. XML
XML 가 XSLT XML XML (가
SGML HTML) XML
? XHTML(TV, WAP)
? WML(XML 2)
? SVG
? MathML
? VoxML()
XSLT XML . XML
, XML
(process)
(
, WAP , TV)
Use Case . Use Case ,
Use Case
(rental reservation agent)

가
가 가 가

(Tomcat) 가 jBoss EJB XML
(<http://xml.apache.org/cocoon/index.html>) jBoss
jBoss (<http://www.jboss.org/>)

Foundation) (Apache Software
2.2 JSP(JavaServer Pages) 1.1
3.2 2.3 JSP 1.2
4.0

2.2 war JSP war(Web archive)
(JavaBean) , XML ,
, XSLT jBoss
가 , JVM

DOM, XML, XSL W3C XML/XSL

EJB : jBoss

jBoss (1.1, 2.0) (hot deployment)가 가
EJB jar 1.3
(dynamic proxy) (stub) (skeleton)
(dynamic compilation) 가 JINI
가 .

jBoss 2.0 . 2.0
MQ(SpyderMQ) JMS(Java Messaging Service) .
JAWS(Just Another Web Storage), (pool)
(Minerva)가 .

J2EE (Figure1.gif) 가
(presentation), (application),
(service), (domain), (persistence) .

. J2EE
HTML/JSP 가 .
XML .
. XSLT

(HTML, XHTML) , XSLFO()
(PDF) ,SVG .

HTML JSP . XML
XML
(querying device) XSLT . (publishing engine)
XSLT .

MVC(Model-View-Controller) ,XML 가
JSP가 XSLT . XSLT
가 .

Use Case 가 .

? 가 (Add customer)

? (Update customer)

? (Make reservation)

JSP
(delegate). JSP . (reserve.jsp)

(useBean) JSP , Customer

Reservation . EJB 가

JSP가

XML

toXML() , XML DOM JDOM
(attribute)

Customer

Customer (sequence diagram)
reserve.jsp가 getCustomer()
(middleware) ReservationAgent (stateless)
. reserve.jsp

Customer toXML() XML . Customer
XSLT
(CustomerJB.java)

Use Case . XML
가 .
.[2](Figure2.gif)
. JSP XML
, CocoonFromServlet . String

가 HTTP (request) .
HTTP 1.7.4

가
가
[3](Figure3.gif)
[4](Figure4.gif)
JSP Customer setCustomer()
JSP
가
Reservation
Reservation JSP 가 [5]
Reservation
Reservation JSP toXML()
(ReservationJB.java)
가 JSP , JSP Reservation setReservation()
ReservationAgent
J2EE
Facade Use Case
(workflow)
(service-based architecture)가
가
가 가 (stateless) (stateful)
가
가

ReservationAgent
가 가 .

? getCustomer()
? setCustomer()
? getReservation()
? setReservation()

ReservationAgent (control) Customer Reservation
(manipulate).(ReservationAgent.java)

getCustomer() findByPrimaryKey()
getCustomerStateHolder() . State Holder value object
ct (serializable object)

가 (read-only) (backend) (lock)
. (Figure6.gif)

setCustomer() Customer findByPrimaryKey()
. (Figure7.gif)

getReservation() setReservation() Reservation
()

(row) 가 , (public accessor method)

(container manager persistent, CMP)
(bean-managed persistent, BMP) . CMP
(CRUD = create, read, update, delete) 가 .

BMP 가 SQL .
가 (legacy system) BMP
.2.0 CMP .

가 CMP
ejb-jar.xml .(ejb-jar.xml)

CMP Customer
rBean ReservationBean

Customer

Customer 가 .

? name
? address
? cardNo()

String , (primary key) name . jBoss
Customer SQL
getStateHolder() setStateHolder()
ejbFindByPrimaryKey() , ejbCreate()
) (optional) . ejbCreate() Customer
가 .(Customer.java)

Reservation

Reservation 가 .

? reservationNo
? startDate
? endDate
? carType
? customerName

reservationNo 가 customerName (foreign key) . Customer
가 getStateHolder() , setStateHolder() ,
ejbFindByPrimaryKey() , ejbCreate() .(Reservation.java)

ejbCreate() Reservation
가 .

jBoss (Hypersonic)
. 100KB
가 (mature)

HTML/JSP XML
(style sheet)가 WAP (
WAP) (IE5, 4.7,)

(header) XML XML

(EJB+XML.zip)
(extreme programming) (iterative development),
(unit testing), (risk driven), (pair programming)
src , 가 com
test 가 JUnit
(build) Ant
src README
ear jBoss deploy

<http://java.sourceforge.net/>

jBoss/

J2EE HTML XML ,
(XML) (XSLT)

. XSLT
. XML 가
가 가 .

XML (information revloution) (media)
. XML
가 가
가 XML
가 .