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Java EE 6 Enterprise JavaBeans Developer Certified Expert

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QUESTION 1

Given two stateless session beans, ABean and BBean:

```
@Stateless
public class ABean {

  @EJB BBean bRef;

  public void a() {
    bRef.b();
  }

}

@Stateless
@TransactionAttribute(TransactionAttributeType.REQUIRED)
public class BBean {

  @Asynchronous
  public void b() {}

}
```

A client that is not executing within a transaction acquires an EJB reference to ABean and invokes the a() method on time. How many distinct transactions are started by the container after all processing has completed?

A. 0

B. 1

C. 2

D. 3

Correct Answer: B

Note: REQUIRED If a client invokes the enterprise bean\\\'s method while the client is associated with a transaction context, the container invokes the enterprise bean\\\'s method in the client\\\'s transaction context. Reference: Enum TransactionAttributeType

QUESTION 2

Which two statements are true JMS message-driven beans? (Choose two.)

A. The developer can use JMS message selector declarations to restrict the message that the bean receives.

B. The developer can associate the bean with a specific queue or topic using the resource-ref element of the deployment descriptor.

C. To achieve concurrent processing of more than one message at a time, more than one bean class must be

associated with the same JMS queue.

D. The developer can use the activationConfig element of the MessageDriven annotation to specify whether the bean should be associated with a queue or a topic.

Correct Answer: AD

A: Elements in the deployment descriptor

The description of a MDB (message-driven beans) in the EJB 2.0 deployment descriptor contains the following specific elements:

*

 the JMS acknowledgement mode: auto-acknowledge or dups-ok-acknowledge

*

 an eventual JMS message selector: this is a JMS concept which allows the filtering of the messages sent to the destination

*

 a message-driven-destination, which contains the destination type (Queue or Topic) and the subscription

D: Example:

The following example is a basic message-driven bean:

@MessageDriven(activationConfig={

@ActivationConfigProperty(propertyName="destination",

propertyValue="myDestination"),

@ActivationConfigProperty(propertyName="destinationType", propertyValue="javax.jms.Queue")

})

public class MsgBean implements javax.jms.MessageListener { public void onMessage(javax.jms.Message msg) {

String receivedMsg = ((TextMessage) msg).getText();

System.out.println("Received message: " + receivedMsg);

}

}

Reference: Developing message-driven beans

Reference: Message Driven Beans Tutorial

QUESTION 3

A stateful session bean needs to restore its conversational state to its initial state if the transaction in which the bean is participating rolls back.

Which bean method can be used to do this?

A. SessionContext.setRollbackOnly

B. SessionContext.getUserTransaction

C. SessionSynchronization.afterCompletion

D. SessionSynchrinization.beforeCompletion

Correct Answer: C

The afterCompletion method notifies a stateful session bean instance that a transaction commit protocol has completed, and tells the instance whether the transaction has been committed or rolled back.

Returns:

True if the current transaction is marked for rollback, false otherwise.

Incorrect answers:

A: getRollbackOnly() tests if the transaction has been marked for rollback only. An enterprise bean instance can use this operation, for example, to test after an exception has been caught, whether it is fruitless to continue computation on

behalf of the current transaction. Only enterprise beans with container- managed transactions are allowed to use this method.

B: Obtain the transaction demarcation interface. Only enterprise beans with bean-managed transactions are allowed to to use the UserTransaction interface. As entity beans must always use container-managed transactions, only session

beans or message-driven beans with bean-managed transactions are allowed to invoke this method.

Returns:

The UserTransaction interface that the enterprise bean instance can use for transaction demarcation.

Note: The SessionContext interface provides access to the runtime session context that the container provides for a session bean instance. The container passes the SessionContext interface to an instance after the instance has been created. The session context remains associated with the instance for the lifetime of the instance.

D: beforeCompletion()

The beforeCompletion method notifies a stateful session bean instance that a transaction is about to be committed.

Reference: javax.ejb, Interface SessionSynchronization

QUESTION 4

A developer writes a stateful session bean with local business interface Bar containing method test. Method test is implemented as:

11.

@Remove

12.

public void test () {}

A business method in a stateless session bean invokes a reference to bean Bar as follows:

11.

@EJB Bar bar;

12.

13.

public void foo () {

14.

bar.test ();

15.

bar.test();

16.

}

Assuming execution reaches Line 15, what is the expected result?

A. Method foo returns without error.

B. A javax.ejb.NoSuchEJBException is thrown.

C. A java.rmi.NoSuchObjectException is thrown.

D. A javax.ejb.NoSuchEntityException is thrown.

Correct Answer: B

QUESTION 5

A developer wants to package an enterprise bean FooBean within a .war file:

@Stateless public xlass FooBean {

public void foo () {} }

Which package approach is correct?

A. / (Root) I META INF / I acme I FooBean.class

B. / (Root) I acme I FooBean.class

C. / (Root) I WEB INF / I acme I FooBean.class

D. / (Root) I WEB INF / I Classes/ I acme I FooBean.class

Correct Answer: D

To include enterprise bean class files in aWARmodule, the class files should be in the WEB-INF/classes directory.

Note: Enterprise beans often provide the business logic of a web application. In these cases, packaging the enterprise bean within the web application\\'sWARmodule simplifies deployment and application organization. Enterprise beans may be packaged within aWARmodule as Java programming language class files or within a JAR file that is bundled within theWARmodule.

Reference: The Java EE 6Tutorial, Packaging Enterprise Beans inWAR Modules

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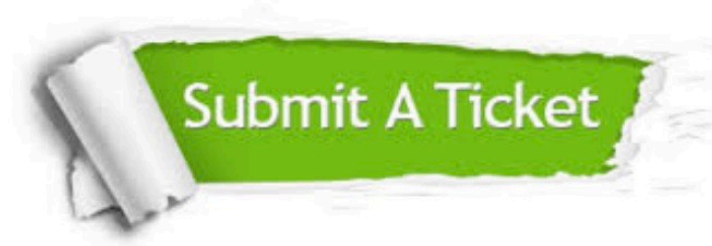
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