

Business Component Development with EJB Technology, Java EE 6

- **Introduction to Java EE**
 - Examine the Java EE application architecture
 - Examine Java EE container services
 - Examine the EJB component types
 - Evaluate the EJB Lite Container
 - Compare Java EE application development with traditional enterprise application development
 - **Implementing Session Beans**
 - Examine session beans
 - Identify the three types of session beans
 - Choose the correct session bean type given a business constraint
 - Create session beans Package and deploy session beans
 - **Accessing Session Beans**
 - Understand the purpose and role of JNDI in relation to EJB components
 - Configure JNDI environment properties
 - Use JNDI to look up a resource
 - Write code that receives a resource reference through injection
 - Create a session bean client
 - Create a session façade
 - Use dependency injection to locate an EJB
 - **Advanced Session Bean Concepts**
 - Understand the relationship between the EJB container and an EJB component
 - Describe the life cycle for stateless and stateful session beans
 - Implement session bean life cycle methods
 - Use a session bean to perform asynchronous communication
 - Have fine-grained control over packaging and deployment
 - **Singleton Session Bean**
 - Understand the advantages and disadvantages of using a singleton session bean
 - Create a singleton session bean
 - Describe the life cycle of a singleton session bean
 - Implement singleton session bean life cycle methods
 - Describe singleton concurrency access
 - Implement a concurrency management strategy
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- **Developing Java EE Applications Using Messaging**
 - Review JMS technology
 - Describe the roles of the participants in the JMS API messaging system
 - Create a queue message producer
 - Create a synchronous message consumer
 - **Developing Message-Driven Beans**

- Understand the short-comings of using session beans as messaging consumers
- Describe the properties and life cycle of message-driven beans
- Create a JMS message-driven bean
- Create life cycle event handlers for a JMS message-driven bean
- Configure a JMS message-driven bean
- **Using Timer Services Objectives**
 - Describe timer services
 - Create a timer notification callback
 - Process a timer notification callback Manage timer objects
- **Implementing Interceptor Classes and Methods**
 - Describe interceptors and interceptor classes
 - Create a business interceptor method in the enterprise bean class
 - Create an interceptor class
 - Associate multiple business interceptor methods with an enterprise bean
 - Include life cycle callback interceptor methods in an interceptor class
- **Implementing Transactions**
 - Describe transaction demarcation management
 - Implement CMT
 - Interact programmatically with an ongoing CMT transaction
 - Implement BMT Apply transactions to messaging
- **Implementing Security**
 - Understand the Java EE security architecture
 - Authenticate the caller Examine Java EE authorization strategies
 - Use declarative authorization
 - Use programmatic authorization Examine the responsibilities of the deployer
- **Using EJB Technology Best Practices**
 - Define best practices and state the benefits of using EJB technology best practices
 - Select and apply known patterns to Java EE application design
 - Incorporate effective exception handling into your Java EE application design