

- The classes required to implement an EJB are: `javax.ejb.EJBHome`, `javax.ejb.EJBObject`, and your method implementations using either `javax.ejb.SessionBean` or `javax.ejb.EntityBean`.
- Entity beans are a shared resource that is persisted and session beans are associated with a user request and are not shared.
- Stateful session beans maintain a user's conversational state whereas a stateless session bean is shared among many users and each user controls the bean for a single request/response.
- Bean pooling allows for more users to use the system with fewer resources.
- Passivation allows the EJB container to use fewer stateful session beans to support more requests.
- CMP allows you to create persisted objects without having to write and maintain the code to persist the object. The down side to CMP is that the tools are not mature enough to provide the performance necessary for an enterprise application.
- DAOs allow you to control the access of data from resources and switch to CMP when the tools have better support, but this means you must write and maintain the SQL code.

▼ Review Your Progress

This section reviews the objectives described in the chapter and provides review questions to ensure that you understand the important points in the chapter.

OBJECTIVE: SELECT, FROM A LIST, THE APPLICATION ASPECTS THAT ARE SUITED FOR IMPLEMENTATION USING J2EE

1. *Which of the following is not an application aspect suited for J2EE?*
 - A. Transactions
 - B. Applet
 - C. Security
 - D. Resource management
 - E. Distributed

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OBJECTIVE: IDENTIFY SUITABLE J2EE TECHNOLOGIES FOR THE IMPLEMENTATION OF SPECIFIED APPLICATION ASPECTS

2. *Which technology would you use to implement asynchronous messages within J2EE?*
 - A. JMS
 - B. RMI
 - C. JNDI
 - D. HTTP

OBJECTIVE: SELECT, FROM A LIST, THOSE APPLICATION ASPECTS THAT ARE SUITED TO IMPLEMENTATION USING EJB

3. *Which is not an application aspect suited to implementation using EJB?*
 - A. Distribution
 - B. Security
 - C. Resource management
 - D. Naming service

LIST THE REQUIRED CLASSES/INTERFACES THAT MUST BE PROVIDED FOR AN EJB

4. *If you are implementing an entity bean, which class is not required?*
 - A. javax.ejb.EJBObject
 - B. javax.ejb.EntityBean
 - C. javax.ejb.EJBRemote
 - D. java.ejb.EJBHome

OBJECTIVE: DISTINGUISH BETWEEN SESSION AND ENTITY BEANS

5. *Which statement is true about session beans, but is NOT true about entity beans?*
 - A. The bean is used as the model in an MVC design pattern.
 - B. State is persistent and can represent a row in a database table.
 - C. The bean can use a data access object to facilitate migration to CMP.
 - D. State represents a conversational state for a specific client.