EJDP Business Tier J2EE Patterns

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1. Business Tier J2EE Patterns

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4. Chapter: Business Tier J2EE Patterns

1. Business Tier J2EE Patterns Questions

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4.1.1. You application's performance is affected due to repeated JNDI look...

Author: JavaChamp Team

You application's performance is affected due to repeated JNDI lookups done by every client accessing your application.

Which pattern is most appropriate to improve the performance and solve the problem?

Please choose only one answer:

- Service Locator
- Session Facade
- Business Delegate
- Transfer Object

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4.1.2. A service locator is best implemented as a Singleton.

Author: JavaChamp Team

A service locator is best implemented as a Singleton.

Please choose only one answer:

- true
- false

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4.1.3. Your application's performance is affected due to the significant n...

Author: JavaChamp Team

Your application's performance is affected due to the significant number of remote calls to your business logic. The business logic is exposed as fine grained methods to the clients.

Which refactoring can be done to improve the application's performance?

Please choose all the answers that apply:

- Add a Front Controller to centralize requests processing
- Implement a Session Facade, which provides a coarse grained service-oriented interface to clients
- Move the frequently called business logic to the presentation tier
- Encapsulate multiple business data attributes into smaller set of serializable transfer objects, to reduce remote invocations

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4.1.4. What is TRUE about the Updatable Transfer Objects Strategy?

Author: JavaChamp Team

What is TRUE about the Updatable Transfer Objects Strategy?

Please choose all the answers that apply:

- It is used when the client needs not only to read the business component attributes but also to be able to modify them
- It reduces the complexity of the system in terms of update propagation and synchronization
- It adds on complexity to the system in terms of update propagation and synchronization
- Transfer Objects in general can reduce network overhead

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4.1.5. Your online shop application maintains the customers information, l...

Author: JavaChamp Team

Your online shop application maintains the customers information, like their personal information,contact lists and lists of purchases.

The remote descktop clients usually require only parts of these information. Which pattern would be most appropriate for this scenario and would improve your system?

Please choose only one answer:

- Updatable Transfer Objects
- Transfer Object Assembler
- Entity Inherits Transfer Object
- Multiple Transfer Objects Strategy

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4.1.6. A presentation tier component is requesting data attributes, which ...

Author: JavaChamp Team

A presentation tier component is requesting data attributes, which are scattered in multiple business components, DAOs and services in your application?

Which pattern is best suited for this scenario, providing the client with the required data causing no significant performance degradation?

Please choose only one answer:

- Business Object
- Transfer Object Assembler
- Data Acess Object
- Composite Entitiy

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4.1.7. When is it recommended to use a Value List Handler Pattern?

Author: JavaChamp Team

When is it recommended to use a Value List Handler Pattern?

Please choose only one answer:

- You want to avoid embedding business logic in the view
- You want to avoid passing protocol-specific information outside its context
- You want to provide the clients with an efficient search and iterate mechanism over a large results set
- You want to maintain the search results on the client side

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4.1.8. ABC university library system is available to students over differe...

Author: JavaChamp Team

ABC university library system is available to students over different campuses in the world and installed in one server in the main campus. Queries results are usually large result sets returned all to clients which causes a heavy load on both client and server.

What do you think can be done to alleviate this problem on a tight budget?

Please choose only one answer:

- Place a server in each campus to serve the students in this campus to distribute the load
- apply Transfer Object Pattern
- apply a Value List Handler Pattern

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