Object States in Hibernate

the objects we create with hibernate can have I of 3 states

These states are in context to the session object

- 1. Transient
 - An object is created in code, but not associated with
- Has yet to be stored in the db
- 2. Persistant
 - the object is persisted in the database
 - done with savel) . persistly . save or Update ()
- hibernate will will watch for changes and try to
- synchronize the state with the db - these will be able to queried from the db
- 3. Detached
- We have access to a persisted object but the session it is attached to closes
- Any changes to this object will not be synched
- We can reattach with update() merge()
- We con create detached objects with

All the methods above come from the session

Caching In Hibernate

Hibernate perform caching to increase performance

Two levels of caching

first-Level /L1:

- first place hibernate looks for data
- automatically implemented
- Associated with the session object
- Useful when you have repeated queries on the same session
- The hibernate just has the data on hand cuts out

Second-Level Cache

- The second place hibernate looks
- This one is optional, the developer most provide
- a caching library for hibernate Associated with the session factory

- HSSOciatED with the session factory To configure use the hibernate.cfg.xm/ property with name cache. use_second_level_cache = true property with name hibernate. cuche. region. factory_class classpath for lib To tell hibernate to cache an object/class use @ Lacheble above the class Service Locator Wesign Pattern A dosign pattern used to encapsulate the processes involved in obtaining a service in a layer of abstraction

It has a central registry which is known as the Service -this is responsible for returning instances of our services

Components of this design:

Client: the part of the app looking for a service

Service Locator: returns instances of a service

Initial Context: creates, registers, and caches SCCUTCE S

Service factory: provides lifecycle management for the services, which helps create, register and look up secuice 5

Service: the scruices being found