

#### SPRING FRAMEWORK



- Singleton (default) Only one instance of the bean is created in the IoC container.
- Prototype A new instance is created each time the bean is requested.
- Request A single instance per http request. Only valid in the context of a web-aware Spring ApplicationContext.
- Session A single instance per http session. Only valid in the context of a web-aware Spring ApplicationContext.

- Global-session A single instance per global session.
   Typically Only used in a Portlet context. Only valid in the context of a web-aware Spring ApplicationContext.
- Application bean is scoped to the lifecycle of a ServletContext. Only valid in the context of a web aware.
- Websocket Scopes a single bean definition to the lifecycle of a WebSocket. Only valid in the context of a web-aware Spring ApplicationContext.

- Custom Scope Spring Scopes are extensible, and you can define your own scope by implementing Spring's 'Scope" interface.
- See Spring's Java docs for details.
- You cannot override the built in Singleton and Prototype Scopes

# Singleton Scope

```
<bean id="..." class="...">
                                         Only one instance is ever created...
   roperty name="accountDao"
             ref="accountDao"/>
</bean>
<bean id="..." class="...">
   cproperty name="accountDao"
             ref="accountDao"/>
                                                   <bean id="accountDao" class="..." />
</bean>
<bean id="..." class="...">
   cproperty name="accountDao"
             ref="accountDao"/>
</bean>
  and this same shared instance is injected into each collaborating object
```

# Prototype Scope

```
<bean id="..." class="...">
                                      A brand new bean instance is created...
   property name="accountDao"
             ref="accountDao"/>
</bean>
<bean id="..." class="...">
   property name="accountDao"
             ref="accountDao"/>
                                                    <bean id="accountDao" class="..."</pre>
</bean>
                                                         scope="prototype" />
<bean id="..." class="...">
   roperty name="accountDao"
             ref="accountDao"/>
</bean>
... each and every time the prototype is referenced by collaborating beans
```

## Declaring Bean Scope

- No declaration needed for singleton scope.
- In Java configuration use @Scope annotation
- In XML configuration scope is an XML attribute of the 'bean' tag



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