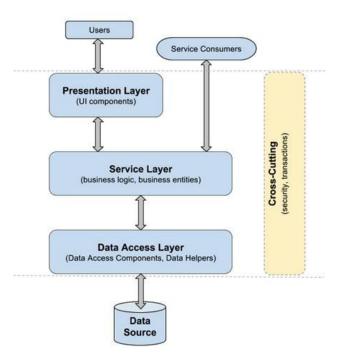
Spring Day 04 - AOP



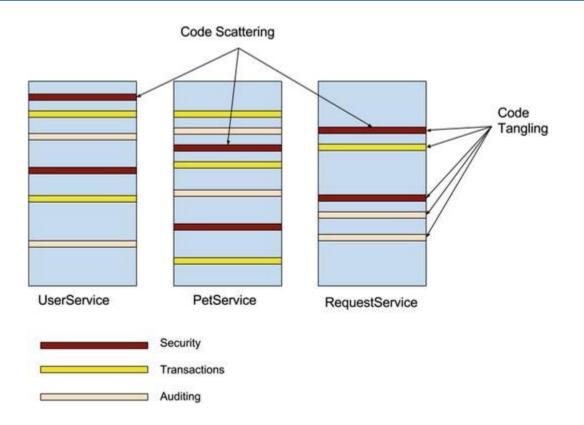
AOP Concepts

 AOP is a type of programming that aims to help with separation of cross-cutting concerns to increase modularity; it implies declaring an aspect class that will alter the behavior of base code, by applying advices to specific join points, specified by pointcuts.

Cross-Cutting concerns



Problems Solved by AOP



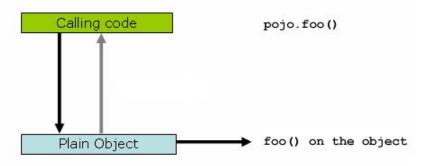
AOP Terminology

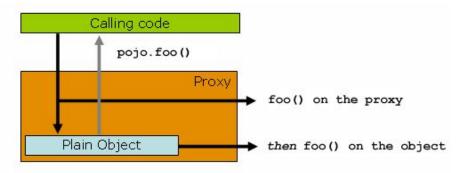
- Aspect: a class containing code specific to a cross-cutting concern
- Join point: all possible points where an Aspect can be applied
- **Pointcut**: a predicate used to identify join points. Advice definitions are associated with a pointcut expression and the advice will execute on any join point matching the pointcut expression.
- Advice: action taken by an aspect at a join point
- Weaving: combining advised object with the advice code

Spring AOP

- Example
- Spring AOP Documentation

Spring AOP





Summary and Best Practices

- Spring AOP advices only public Join Points
- Aspects can be applied only to Spring Beans
- Avoid whenever possible
- Advise only classes that implement an interface
- Advise only methods exposed through an interface
- Call Advised bean only through interface

