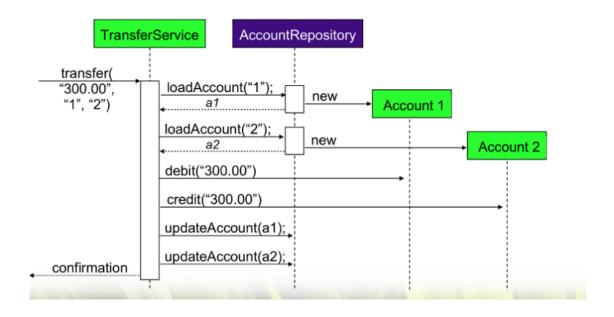
spring & spring-boot

Ex: Money Transfer Service



demo-1: money-transfer-service

design & performance issues

• tight-coupling between dependent & dependency object's implementation .

can't extend with new features easily

• too many duplicate dependency instances

too much resource consumption & bad responsive to enduser

• unit-testing not possible

dev / bug-fix slow

why these issues?

dependent component managing it's own dependency component

solution:

limitation with factory only

factory location tight-coupling

best solution:

don't create & lookup , inject by container (dependency inversion principle)

S.O.L.I.D principles

1. Single Responsibility Principle

"One class should have one and only one responsibility"

2. Open Closed Principle

"Software components should be open for extension, but closed for modification"

3. Liskov's Substitution Principle

"Derived types must be completely substitutable for their base types"

4. Interface Segregation Principle

"Clients should not be forced to implement unnecessary methods which they will not use"

5. Dependency Inversion Principle

"Depend on abstractions, not on concretions"

Spring configuration

- 1. XML
- 2. Annotation
- 3. Java-based