Spring Case Study:

You are building a part of an online banking solution for “Mumbai Bank”. The module you are working on is about “Cards” (Both debit and credit cards).

Entities:

Customer

Account

Cards (type=debit or type=credit)

DB Tables (Associations):

Customer & Customer Profile (One-To-One)

Customer & Account (One-to-Many)

Account & Card (One-to-Many)

Both DAO & Service tier are using Spring & Hibernate. Application would create tables (db schema) on start.

Measure the performance of DAO and service method by using an aspect that would run “before” and “after” each of these methods and calculate time (in milliseconds) taken by each method.

Steps

1. Create a MonitorAdvice put annotations : @Apect, @Component

2. Create a method

@AroundInvoke(“”)

public Object calcTime(ProceedingJoinPoint pt) {

long timeBefore = Current TIME

Object obj = pt.proceed();

Long timeAfter = CURRENT TIME

Long time = timeAfter – timeBefore;

Print time taken

Return obj;

}

Build a Console application which should use “XML Configuration” with bit of annotations to further configure components.