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About

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This project uses Maven profiles to test individual AspectJ aspects. It uses load-time weaving to ensure only the relevant aspects are compiled and woven into the program.

Aspect code is within src/main/java/barr and test code is within src/test/java/barr. Profile information is within the profiles tag of pom.xml and in src/test/resources/aop.

Aspects and Tests

The following aspects were created to modify the behavior of the MoneyTransferService. Use the command in the Command column to run the test for the aspect.

Assignment Item	Aspect	Test	Command
None	Around Advice Aspect	AroundAdviceAspectTest	mvn -P around-advice - Dtest=AroundAdviceAspectTest test
None	MoneyTransferServiceAspect	Money Transfer Service Aspect Test	<pre>mvn -P money-transfer-service - Dtest=MoneyTransferServiceAspectTest test</pre>
1	Double Deposit By Param Aspect	Double Deposit By Param Aspect Test	<pre>mvn -P double-param - Dtest=DoubleDepositByParamAspectTest test</pre>
2	Double Deposit By Balance Aspect	DoubleDepositByBalanceAspectTest	<pre>mvn -P double-balance - Dtest=DoubleDepositByBalanceAspectTest test</pre>
3	TenPercentAspect	TenPercentAspectTest	mvn -P ten-percent - Dtest=TenPercentAspectTest test
4	ServiceFeeAspect	ServiceFeeAspectTest	mvn -P service-fee - Dtest=ServiceFeeAspectTest test
5	PrintOnBalanceSetAspect	PrintOnBalanceSetAspectTest	<pre>mvn -P balance-set - Dtest=PrintOnBalanceSetAspectTest test</pre>
6	PrintEveryMethodAspect	PrintEveryMethodAspectTest	<pre>mvn -P print-method - Dtest=PrintEveryMethodAspectTest test</pre>
7	TieredBonusAspect	TieredBonusAspectTest	mvn -P tiered-bonus - Dtest=TieredBonusAspectTest test
8	Reduce Third Transfer Aspect	ReduceThirdTransferAspectTest	mvn -P third-transfer - Dtest=ReduceThirdTransferAspectTest test
9	Steal From Recipient Aspect	StealFromRecipientAspectTest	mvn -P steal - Dtest=StealFromRecipientAspectTest test
9	DrainAccountAspect	DrainAccountAspectTest	mvn -P drain-account - Dtest=DrainAccountAspectTest test
9	PerformanceStatsAspect	PerformanceStatsAspectTest	mvn -P stats - Dtest=PerformanceStatsAspectTest test

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Custom Aspects (step 9)

- StealFromRecipientAspect reverses the transaction after it goes through.
- DrainAccountAspect takes everything from the recipient, leaving them with \$1.
- PerformanceStatsAspect tracks and prints statistics for each transfer by using inter-type fields.

Credits

Credit to Tingshuo Miao for helping me fix my Maven profiles build issues.