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Provided Money and Currency API

Introduce

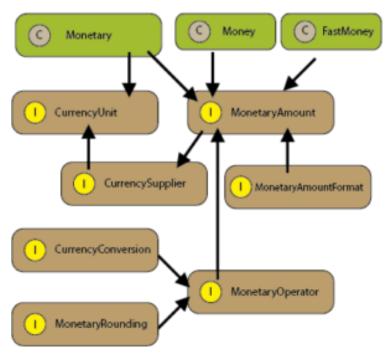
JSR354 targets to support all general applications: eCommerce, Banking, Finance...

The specification supports java se platform version 9 and above. The API is backward compatible with java 7,8. The reference implementation "**Moneta**" is modular and supports the Java Platform Module System. We will work it.

Setup

```
Link download: <a href="https://mvnrepository.com/artifact/org.javamoney/moneta">https://mvnrepository.com/artifact/org.javamoney/moneta</a> --> <dependency> <groupId>org.javamoney</groupId> <artifactId>moneta</artifactId> <version>1.4.2</version> <type>pom</type> </dependency>
```

Diagram Class and Interface of JSR354



CurrencyUnit and MonetaryAmount

CurrencyUnit models a currency. It is very similar to the existing java.util.Currency class, except it allows custom implementations. That get instance CurrencyUnit by MonetaryCurrencies factory.

MonetaryAmount represents a concrete numeric representation of a monetary amount. A MonetaryAmount is always bound to a CurrencyUnit.

Money and FastMonney are two MonetaryAmount implementations of JavaMoney. Monet is default implementation that stores number values using Bigdecimal. FastMoney is an alternative implementation which stores amounts in long fields.

According to documentation operation on FastMoney are 10-15 times faster compared to Money. However, FastMoney is limited by the size number and precision of the Long type. You can refer here about data type of java:

https://docs.oracle.com/javase/tutorial/java/nutsandbolts/datatypes.html

Demo

```
Collectors.class
14 import org.javamoney.moneta.tunction.GroupMonetarySummaryStatistics;
 25 import org.javamoney.moneta.function.MonetaryFunctions;
 26 import org.javamoney.moneta.function.MonetarySummaryStatistics;
 28 public class CurrencyUnitAndMonetaryAmount {
 29
 30
 31⊖
         * Create MonetaryAmount and CurrencyUnit
  32
  33
 34⊕
        void createCurrencyUnitAndMonetaryAmount() {
  50
  51⊜
         * features: add, substract, multipty, divide, round
 53
        void calculatorBasicMonetary() {
 54⊕
 87
 88⊜
         * Working with stream Check non null, Sorted, Filter, Group by CurrencyUnit
 89
 90
 91⊕
        void calculatorAdvanced() {
 122
 1239
         * Convert Currencies
 124
 125
 126⊕
        void exchangeRates() {[
```

This section is non commercial mainly sharing and advance knowlage for java. This tutorials has referenced document from the list below if you has complain for license, i will remove all from internet. Thank you all everything.

https://download.oracle.com/otn-pub/jcp/money_currency-1_1-mrel-eval-spec/JavaMoneySpecification.pdf

https://www.baeldung.com/java-money-and-currency

https://dzone.com/articles/looking-java-9-money-and