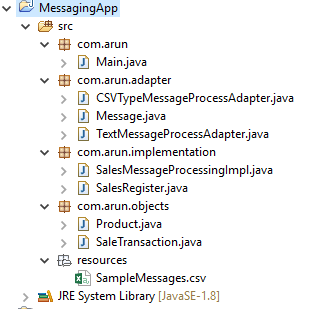
# J.P Morgan Java Technical Test

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Eclipse Object Model:



* Product & SaleTransaction are model objects used in this application.
* SalesMessageProcessingImpl responsible for all business operations
* SaleRegister stored all sensitive records
* Adapter model used to reading the message & convert into this application readable.
  + Only supported CSV type

How to Execute:

* Download MessagingApp.jar
* Open Directory in cmd prompt 🡪 java -jar MessagingApp.jar

Execution Result:

|  |
| --- |
| E:\eclipse>java -jar MessagingApp.jar  Read raw message from file...  apple,10,1  apple,8,5,add  banana,10,1  banana,8,5,add  orange,10,1  orange,10,1,subtract  lemen,10,1  watermelen,10,1  melan,10,1  apple,10,10  apple,8,5,multiply  apple,8,5,subtract  banana,10,1  banana,10,10  banana,8,5,add  banana,8,5,multiply  banana,8,5,subtract  mango,10,1  mango,10,10  mango,8,5,add  mango,8,5,multiply  mango,8,5,subtract  CSVTypeMessageProcessAdapter: Message [productType=apple, price=10.0, quantity=1.0, operation=null]  CSVTypeMessageProcessAdapter: Message [productType=apple, price=8.0, quantity=5.0, operation=ADD]  SaleTransaction [details=apple 5 quantity added. Total: 6, transactionTime=2018 05 24 00:45:25]  CSVTypeMessageProcessAdapter: Message [productType=banana, price=10.0, quantity=1.0, operation=null]  CSVTypeMessageProcessAdapter: Message [productType=banana, price=8.0, quantity=5.0, operation=ADD]  SaleTransaction [details=banana 5 quantity added. Total: 6, transactionTime=2018 05 24 00:45:25]  CSVTypeMessageProcessAdapter: Message [productType=orange, price=10.0, quantity=1.0, operation=null]  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  Mid term limit reached (5). Sales Overview is...  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  Product=orange, Value=10.0  Product=apple, Value=60.0  Product=banana, Value=60.0  Total number of products :3 & Its worth is $130.0  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  CSVTypeMessageProcessAdapter: Message [productType=orange, price=10.0, quantity=1.0, operation=SUBTRACT]  CSVTypeMessageProcessAdapter: Message [productType=lemen, price=10.0, quantity=1.0, operation=null]  CSVTypeMessageProcessAdapter: Message [productType=watermelen, price=10.0, quantity=1.0, operation=null]  CSVTypeMessageProcessAdapter: Message [productType=melan, price=10.0, quantity=1.0, operation=null]  CSVTypeMessageProcessAdapter: Message [productType=apple, price=10.0, quantity=10.0, operation=null]  SaleTransaction [details=apple 10 quantity added. Total: 16, transactionTime=2018 05 24 00:45:26]  Sorry. Message limit reached 10. Stop processing further messages. Printing detailed report...  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  Product=orange, Value=0.0  Altered 1 times.  1: SaleTransaction [details=orange 1quantity subtracted. Total: 0, transactionTime=2018 05 24 00:45:26]  Product=apple, Value=160.0  Altered 2 times.  1: SaleTransaction [details=apple 5 quantity added. Total: 6, transactionTime=2018 05 24 00:45:25]  2: SaleTransaction [details=apple 10 quantity added. Total: 16, transactionTime=2018 05 24 00:45:26]  Product=lemen, Value=10.0  Product=melan, Value=10.0  Product=banana, Value=60.0  Altered 1 times.  1: SaleTransaction [details=banana 5 quantity added. Total: 6, transactionTime=2018 05 24 00:45:25]  Product=watermelen, Value=10.0  Total number of products :6 & Its worth is $250.0  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  E:\eclipse> |