

# Code and test separation for Apache OFBiz

One of the GSoC 2011 task : <https://issues.apache.org/jira/browse/OFBIZ-4211>



## Be Careful

Basic ant targets like build, run-install, run-tests should be working

## Why

This task will be focusing on separating test and source code in each component.

At the moment, running the run-install task is compiling code and test code. What is expected is run-install compiling only the deployment code, and run-tests only the test code. Each sub-test task should also compile what is needed for it.

The code structure would be like this :

```
src/main/java      Application/Library sources
src/test/java      Test sources
```

## How

Project plan

- Learn Ant into depth
- Analyze the structure of the code base
- Identify the test classes
- Move the test classes into src/test/java and create the build.xml for building the test cases

### Git repository

<https://ganathr@github.com/ganathr/ofbiz.git>

### Analyze the structure of the code base

I went through the code and identified the test java classes some modules and changed their module structure as follows.

Since there were some modules were dependencies of others I had to do the changes according to the following order and test whether they were running.

- content
- party
- workeffort
- product
- marketing
- order
- manufacturing
- accounting

### Content module

Current structure of the module

```
.
|-- src
|   |-- ControlApplet.java
|   |-- org
|   |   |-- ofbiz
|   |   |   |-- content
|   |   |   |   |-- test
|   |   |   |   |-- LuceneTests.java
```

Structure after test/code separation of the module

```

.
|-- src
|   |-- ControlApplet.java
|   |--main
|   |   |-- java
|   |   |-- //rest of the code
|   |-- test
|   |   |-- java
|   |   |-- org
|   |       |-- ofbiz
|   |           |-- content
|   |               |-- LuceneTests.java

```

## party module

Current structure of the module

```

.
|-- src
|   |-- org
|   |   |-- ofbiz
|   |       |-- party
|   |           |-- communication
|   |               |-- CommunicationEventServices.java
|   |           |-- contact
|   |               |-- ContactHelper.java
|   |               |-- ContactMechServices.java
|   |               |-- ContactMechWorker.java
|   |           |-- content
|   |               |-- PartyContentWrapper.java
|   |           |-- party
|   |               |-- PartyHelper.java
|   |               |-- PartyRelationshipHelper.java
|   |               |-- PartyRelationshipServices.java
|   |               |-- PartyServices.java
|   |               |-- PartyTypeHelper.java
|   |               |-- PartyWorker.java

```

Structure after test/code separation of the module

```

.
|-- src
|   |-- main
|   |   |-- java
|   |   |-- java
|   |   |-- //rest of the code
|   |-- test
|   |   |-- java
|   |   |-- org
|   |       |-- ofbiz
|   |           |-- party

```

## workeffort module

Current structure of the module

```

.
|-- src
|   |-- org
|   |   |-- ofbiz
|   |       |-- workeffort
|   |           |-- content
|   |               |-- WorkEffortContentWrapper.java
|   |           |-- project
|   |               |-- workeffort
|   |                   |-- ICalConverter.java
|   |                   |-- ICalHandlerFactory.java
|   |                   |-- ICalRecurConverter.java
|   |                   |-- ICalWorker.java
|   |                   |-- WorkEffortKeywordIndex.java
|   |                   |-- WorkEffortPartyAssignmentServices.java
|   |                   |-- WorkEffortSearchEvents.java
|   |                   |-- WorkEffortSearch.java
|   |                   |-- WorkEffortSearchSession.java
|   |                   |-- WorkEffortServices.java
|   |                   |-- WorkEffortWorker.java

```

Structure after test/code separation of the module

```

|-- src
|   |-- main
|   |   |-- java
|   |   |-- //rest of the code
|   |-- test
|   |   |-- java
|   |   |-- org
|   |   |-- ofbiz
|   |   |-- workeffort

```

product module

Current structure of the module

```

|-- src
|   |-- org
|   |   |-- ofbiz
|   |   |   |-- product
|   |   |   |   |-- catalog
|   |   |   |   |   |-- CatalogWorker.java
|   |   |   |   |-- category
|   |   |   |   |   |-- CatalogUrlServlet.java
|   |   |   |   |   |-- CategoryContentWrapper.java
|   |   |   |   |   |-- CategoryServices.java
|   |   |   |   |   |-- CategoryWorker.java
|   |   |   |   |   |-- OfbizCatalogUrlTransform.java
|   |   |   |   |-- config
|   |   |   |   |   |-- ProductConfigItemContentWrapper.java
|   |   |   |   |   |-- ProductConfigWorker.java
|   |   |   |   |   |-- ProductConfigWrapperException.java
|   |   |   |   |   |-- ProductConfigWrapper.java
|   |   |   |   |-- feature
|   |   |   |   |   |-- ParametricSearch.java
|   |   |   |   |   |-- ProductFeatureServices.java
|   |   |   |   |-- image
|   |   |   |   |   |-- ScaleImage.java
|   |   |   |   |-- imagemanagement
|   |   |   |   |   |-- CropImage.java
|   |   |   |   |   |-- FrameImage.java
|   |   |   |   |   |-- ImageManagementServices.java
|   |   |   |   |   |-- ImageUrlServlet.java
|   |   |   |   |   |-- ReplaceImage.java
|   |   |   |   |   |-- RotateImage.java
|   |   |   |   |   |-- WatermarkImage.java
|   |   |   |   |-- inventory
|   |   |   |   |   |-- InventoryServices.java
|   |   |   |   |   |-- InventoryWorker.java
|   |   |   |   |-- price
|   |   |   |   |   |-- PriceServices.java
|   |   |   |   |-- product
|   |   |   |   |   |-- KeywordIndex.java
|   |   |   |   |   |-- ProductContentWrapper.java
|   |   |   |   |   |-- ProductEvents.java
|   |   |   |   |   |-- ProductPromoContentWrapper.java
|   |   |   |   |   |-- ProductSearchEvents.java
|   |   |   |   |   |-- ProductSearch.java
|   |   |   |   |   |-- ProductSearchSession.java
|   |   |   |   |   |-- ProductServices.java
|   |   |   |   |   |-- ProductUtilServices.java
|   |   |   |   |   |-- ProductWorker.java
|   |   |   |   |   |-- VariantEvents.java
|   |   |   |   |-- promo
|   |   |   |   |   |-- PromoServices.java
|   |   |   |   |-- spreadsheetimport
|   |   |   |   |   |-- ImportProductHelper.java
|   |   |   |   |   |-- ImportProductServices.java
|   |   |   |   |-- store
|   |   |   |   |   |-- ProductStoreSurveyWrapper.java
|   |   |   |   |   |-- ProductStoreWorker.java
|   |   |   |   |-- subscription
|   |   |   |   |   |-- SubscriptionServices.java
|   |   |   |   |-- supplier
|   |   |   |   |   |-- SupplierProductServices.java
|   |   |   |   |-- test
|   |   |   |   |   |-- InventoryItemTransferTest.java
|   |   |   |   |   |-- StockMovesTest.java
|   |   |-- shipment

```

```

|-- packing
| |-- PackingEvent.java
| |-- PackingServices.java
| |-- PackingSession.java
| `-- PackingSessionLine.java
|-- picklist
| `-- PickListServices.java
|-- shipment
| |-- ShipmentEvents.java
| |-- ShipmentScheduledNotice.ftl
| |-- ShipmentServices.java
| `-- ShipmentWorker.java
|-- thirdparty
| |-- dhl
| | `-- DhlServices.java
| |-- fedex
| | `-- FedexServices.java
| |-- ups
| | `-- UpsServices.java
| `-- usps
| | |-- UspsMockApiServlet.java
| | |-- UspsServices.java
| | `-- UspsServicesTests.java
|-- verify
| |-- VerifyPickServices.java
| |-- VerifyPickSession.java
| `-- VerifyPickSessionRow.java
|-- weightPackage
| |-- WeightPackageServices.java
| |-- WeightPackageSession.java
| `-- WeightPackageSessionLine.java
|-- ShipmentScaleApplet.java

```

Structure after test/code separation of the module

```

.
|-- src
| |-- main
| | `-- java
| | `-- //rest of the code
|-- test
| `-- java
| | `-- org
| | | `-- ofbiz
| | | | |-- product
| | | | | |-- InventoryItemTransferTest.java
| | | | | `-- StockMovesTest.java
| | | `-- shipment

```

## marketing module

Current structure of the module

```

|-- src
| `-- org
| | `-- ofbiz
| | | |-- marketing
| | | | |-- marketing
| | | | | `-- MarketingServices.java
| | | |-- report
| | | | `-- ReportHelper.java
| | | `-- tracking
| | | | `-- TrackingCodeEvents.java
| `-- sfa
| | `-- vcard
| | | `-- VCard.java

```

Structure after test/code separation of the module

```

.
|-- src
|  |-- main
|  |  |-- java
|  |  |  |-- org
|  |  |  |  |-- ofbiz
|  |  |  |  |  |-- marketing
|  |  |  |  |  |  |-- marketing
|  |  |  |  |  |  |-- MarketingServices.java
|  |  |  |  |  |-- report
|  |  |  |  |  |  |-- ReportHelper.java
|  |  |  |  |  |-- tracking
|  |  |  |  |  |  |-- TrackingCodeEvents.java
|  |  |  |  |-- sfa
|  |  |  |  |  |-- vcard
|  |  |  |  |  |  |-- VCard.java
|  |-- test
|  |  |-- java
|  |  |  |-- org
|  |  |  |  |-- ofbiz
|  |  |  |  |  |-- marketing
|  |  |  |  |  |-- sfa

```

## Order Module

Current structure of the module

```

.
|-- src
|  |-- org
|  |  |-- ofbiz
|  |  |  |-- order
|  |  |  |  |-- test
|  |  |  |  |  |-- OrderTestServices.java
|  |  |  |  |  |-- PurchaseOrderTest.java
|  |  |  |  |  |-- SalesOrderTest.java

```

Structure after test/code separation of the module

```

.
|-- src
|  |-- ControlApplet.java
|  |-- main
|  |  |-- java
|  |  |  |-- //rest of the code
|  |-- test
|  |  |-- java
|  |  |  |-- org
|  |  |  |  |-- ofbiz
|  |  |  |  |  |-- order
|  |  |  |  |  |  |-- OrderTestServices.java
|  |  |  |  |  |  |-- PurchaseOrderTest.java
|  |  |  |  |  |  |-- SalesOrderTest.java

```

## manufacturing module

Current structure of the module

```

|-- src
|  |-- org
|  |  |-- ofbiz
|  |  |  |-- manufacturing
|  |  |  |  |-- bom
|  |  |  |  |  |-- BOMHelper.java
|  |  |  |  |  |-- BOMNode.java
|  |  |  |  |  |-- BOMServices.java
|  |  |  |  |  |-- BOMTree.java
|  |  |  |  |-- jobshopmgt
|  |  |  |  |  |-- ProductionRunEvents.java
|  |  |  |  |  |-- ProductionRunHelper.java
|  |  |  |  |  |-- ProductionRun.java
|  |  |  |  |  |-- ProductionRunServices.java
|  |  |  |-- mrp
|  |  |  |  |-- InventoryEventPlannedServices.java
|  |  |  |  |-- MrpServices.java
|  |  |  |  |-- ProposedOrder.java
|  |  |  |-- routing
|  |  |  |  |-- RoutingServices.java
|  |  |-- techdata
|  |  |  |-- TechDataServices.java

```

Structure after test/code separation of the module

```

|-- src
|  |-- main
|  |  |-- java
|  |  |-- //rest of the code
|  |-- test
|  |  |-- java
|  |  |-- org
|  |  |  |-- ofbiz
|  |  |  |  |-- manufacturing

```

## Accounting module

Current structure of the module

```

|-- src
|  |-- org
|  |  |-- ofbiz
|  |  |  |-- accounting
|  |  |  |  |-- test
|  |  |  |  |  |-- FinAccountTests.java
|  |  |  |-- thirdparty
|  |  |  |  |-- clearcommerce
|  |  |  |  |  |-- CCServicesTest.java
|  |  |  |-- ideal
|  |  |  |  |-- IdealPaymentServiceTest.java
|  |  |-- securepay
|  |  |  |-- SecurePayServiceTest.java

```

Structure after test/code separation of the module

```

|-- src
|  |-- main
|  |  |-- java
|  |  |-- //rest of the code
|  |-- test
|  |  |-- java
|  |  |  |-- org
|  |  |  |  |-- ofbiz
|  |  |  |  |  |-- accounting
|  |  |  |  |  |  |-- FinAccountTests.java
|  |  |  |  |-- thirdparty
|  |  |  |  |  |-- clearcommerce
|  |  |  |  |  |  |-- CCServicesTest.java
|  |  |  |-- ideal
|  |  |  |  |-- IdealPaymentServiceTest.java
|  |  |-- securepay
|  |  |  |-- SecurePayServiceTest.java

```

Script for automate the test code separation

```

\#\!/bin/bash

sed 's,@prefix src,@prefix src/main/java,' <macros.xml >temp
cat temp >macros.xml
rm temp

for i in applications specialpurpose framework
do
    #echo $i
    cd $i

    for dir in $(ls .)
    do
        #echo $dir

        if \[ $dir != .. \];
        then
            if \[ -d $dir \]
            then
                cd $dir
                #echo $dir

                if \[ -d src/ \];
                then

                    sed "s,org/ofbiz/,main/java/org/ofbiz/,g" <build.xml >temp
                    cat temp >build.xml

                    #echo $dir
                    cd src/
                    SRC=$(pwd)

                    testdirs=$(find ./ -type d -name test -printf '%P\n' \| sort -r)

                    mkdir -p main/java/ test/java/

                    if \[ $dir = 'content' \];
                    then
                        git mv ControlApplet.java main/java/

                    elif \[ $dir = 'accounting' \];
                    then
                        mkdir -p test/java/org/ofbiz/accounting/thirdparty/clearcommerce/
                        mkdir test/java/org/ofbiz/accounting/thirdparty/ideal/
                        mkdir test/java/org/ofbiz/accounting/thirdparty/securepay/
                        git mv org/ofbiz/accounting/thirdparty/clearcommerce/CCServicesTest.java test/java/org/ofbiz/accounting
/thirdparty/clearcommerce/
                        git mv org/ofbiz/accounting/thirdparty/ideal/IdealPaymentServiceTest.java test/java/org/ofbiz/accounting
/thirdparty/ideal/
                        git mv org/ofbiz/accounting/thirdparty/securepay/SecurePayServiceTest.java test/java/org/ofbiz/accounting
/thirdparty/securepay/

                        elif \[ $dir = 'product' \];
                        then
                            git mv ShipmentScaleApplet.java main/java/

                            mkdir -p test/java/org/ofbiz/shipment/thirdparty/usps/
                            git mv org/ofbiz/shipment/thirdparty/usps/UspsServicesTests.java test/java/org/ofbiz/shipment/thirdparty
/usps/
                        fi

                        for test in $testdirs
                        do
                            test=$(echo $test \| replace test '')

                            mkdir -p test/java/$test

                            for x in $(ls $test/test/)
                            do
                                echo $x
                                sed 's,\.test;,,,' <$test/test/$x >temp

```

```

cat temp >$test/test/$x

sed 's,\.test\.\.\.,g' <$test/test/$x >temp
cat temp >$test/test/$x

echo $test
sed "s#main/java/$test test/#test/java/$test#g" <../build.xml >temp # ./org/ofbiz does not match

cat temp >../build.xml

done
rm temp

git mv $test test/* test/java/$test
rm \-r $test test/ #git only

done

git mv org/ main/java/

cd ..

if \[ $dir = 'service' \];
then
sed 's,\.test\.\.\.,g' <servicedef/services_test_se.xml >temp
cat temp >servicedef/services_test_se.xml

sed 's,\.test\.\.\.,g' <testdef/servicetests.xml >temp
cat temp >testdef/servicetests.xml

elif \[ $dir = 'minilang' \];
then
sed 's,\.test\.\.\.,g' <testdef/MinilangTests.xml >temp
cat temp >testdef/MinilangTests.xml

elif \[ $dir = 'entity' \];
then
sed 's,\.test\.\.\.,g' <testdef/entitytests.xml >temp
cat temp >testdef/entitytests.xml

elif \[ $dir = 'base' \];
then
sed 's,\.test\.\.\.,g' <build.xml >temp
cat temp >build.xml

sed 's,main/java/org/ofbiz/base/json,org/ofbiz/base/json,g' <build.xml >temp
cat temp >build.xml

sed 's,\.test\.\.\.,g' <config/test-containers.xml >temp
cat temp >config/test-containers.xml

sed 's,\.test\.\.\.,g' <testdef/basetests.xml >temp
cat temp >testdef/basetests.xml

elif \[ $dir = 'securityext' \];
then
sed 's,\.test\.\.\.,g' <testdef/securitytests.xml >temp
cat temp >testdef/securitytests.xml

sed 's,\.test\.\.\.,g' <testdef/data/SecurityTestData.xml >temp
cat temp >testdef/data/SecurityTestData.xml

elif \[ $dir = 'product' \];
then
sed 's,\.test\.\.\.,g' <testdef/FacilityTest.xml >temp
cat temp >testdef/FacilityTest.xml

sed 's,ShipmentScaleApplet,main/java/ShipmentScaleApplet,g' <build.xml >temp
cat temp >build.xml

```



```

elif \[ $dir = 'order' \];
then
  sed 's,\.test\.\.\.,g' <servicedef/services.xml >temp
  cat temp >servicedef/services.xml

  sed 's,\.test\.\.\.,g' <testdef/OrderTest.xml >temp
  cat temp >testdef/OrderTest.xml

elif \[ $dir = 'content' \];
then
  sed 's,\.test\.\.\.,g' <testdef/lucenetests.xml >temp
  cat temp >testdef/lucenetests.xml

elif \[ $dir = 'accounting' \];
then
  sed 's,\.test\.\.\.,g' <testdef/accountingtests.xml >temp
  cat temp >testdef/accountingtests.xml

  sed 's,main/java/org/ofbiz/accounting/thirdparty/ideal,**/java/org/ofbiz/accounting/thirdparty/ideal,
g'<build.xml >temp
  cat temp >build.xml

elif \[ $dir = 'sql' \];
then
  sed 's,main/java/org/ofbiz/sql,org/ofbiz/sql,g' <build.xml >temp
  cat temp >build.xml

elif \[ $dir = 'start' \];
then
  sed 's,org/ofbiz/base/start/,main/java/org/ofbiz/base/start/,g' <src/main/java/org/ofbiz/base/start
/Config.java >temp
  cat temp >src/main/java/org/ofbiz/base/start/Config.java
fi

rm temp

elif \[ $dir = 'documents' \];
then
  echo $dir
  sed 's,\.test\.\.\.,g' <UnitTest.xml >temp
  cat temp >UnitTest.xml
  rm temp
fi
cd ..
fi
done
cd ..
done

```