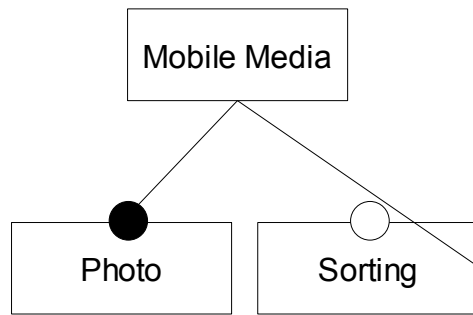


Mobile Media SPL evolution analysis (AOP version)

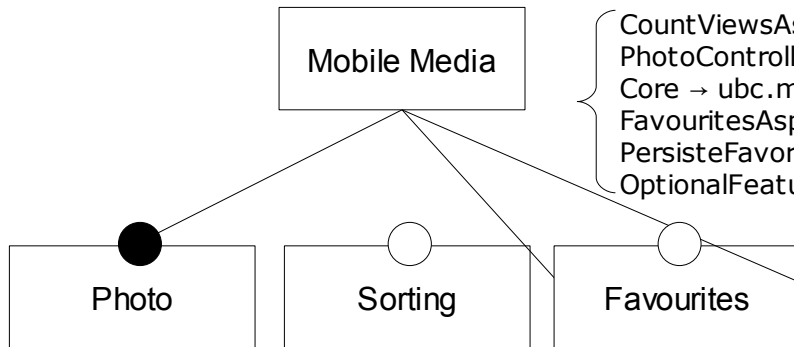
RELEASE 03 (initial version)



{
CountViewsAspect → lancs.midp.mobilephoto.optional.sorting.CountViewsAspect.aj
PhotoController → ubc.midp.mobilephoto.core.ui.controller.PhotoController.java
Core → ubc.midp.mobilephoto.core.*
}

Feature Expression	Asset Name
Sorting	CountViewsAspect
Photo	PhotoController
Mobile Media	Core

RELEASE 04 (added Favourites feature)

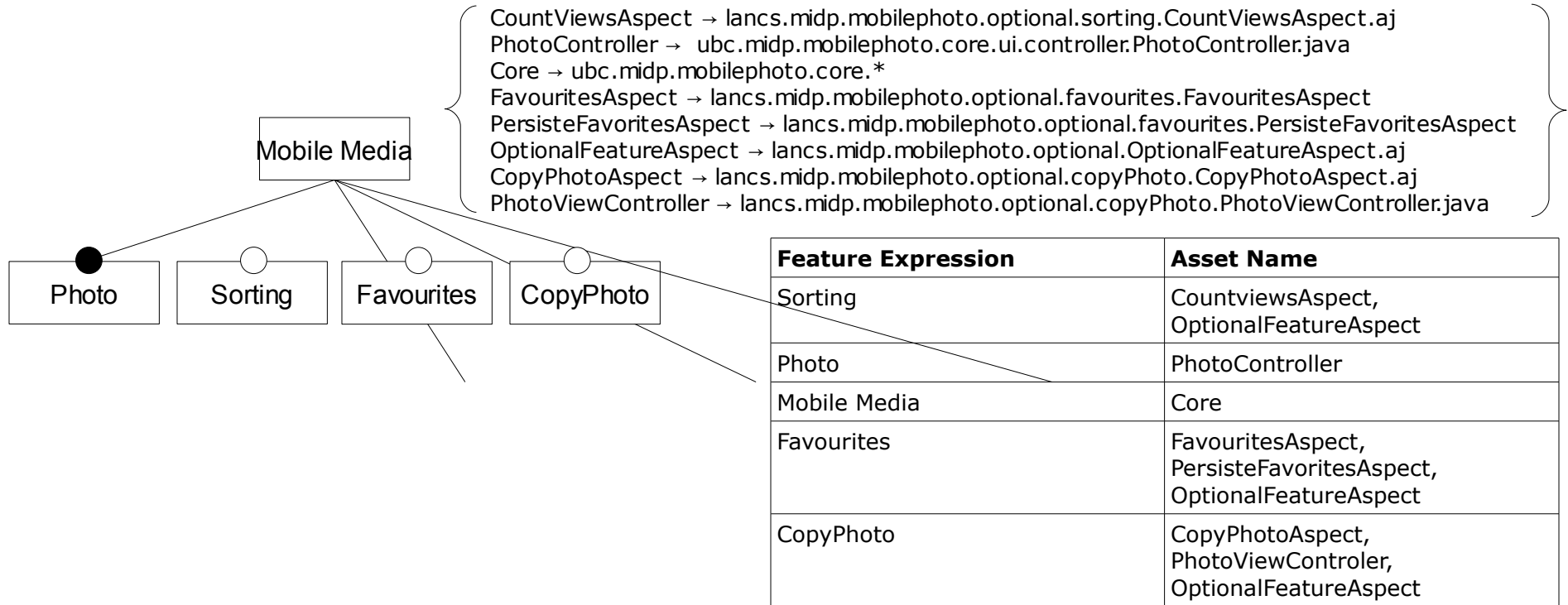


CountViewsAspect → lancs.midp.mobilephoto.optional.sorting.CountViewsAspect.aj
 PhotoController → ubc.midp.mobilephoto.core.ui.controller.PhotoController.java
 Core → ubc.midp.mobilephoto.core.*
 FavouritesAspect → lancs.midp.mobilephoto.optional.favourites.FavouritesAspect
 PersisteFavoritesAspect → lancs.midp.mobilephoto.optional.favourites.PersisteFavoritesAspect
 OptionalFeatureAspect → lancs.midp.mobilephoto.optional.OptionalFeatureAspect.aj

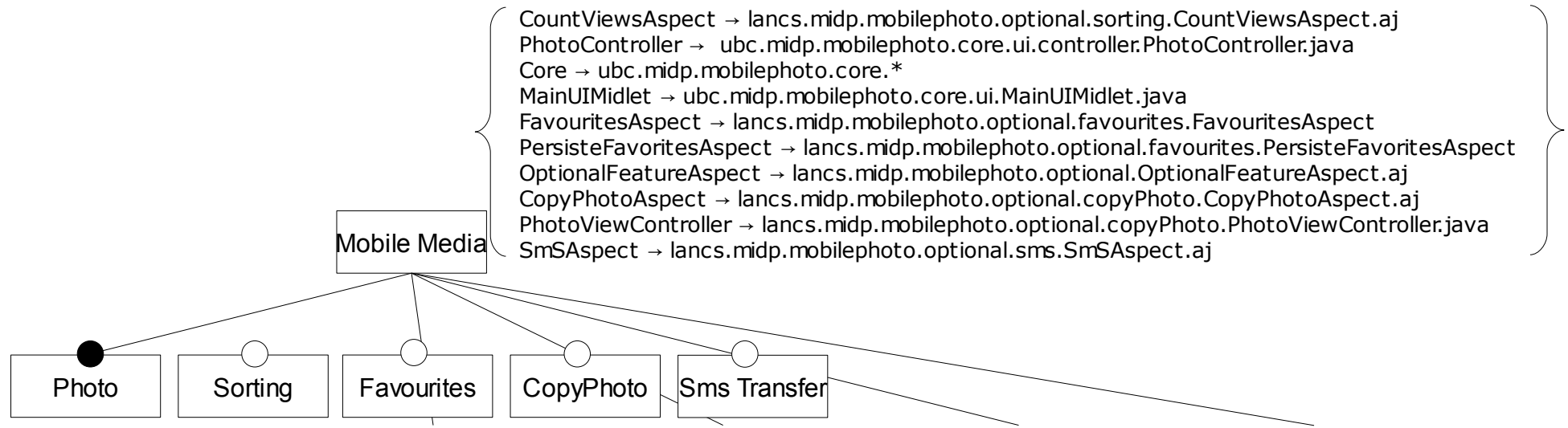
Observação: Para obter esta release, foi adicionada a feature Favourites, mas nenhuma refatoração que altere os modelos foi realizada. As alterações nos artefatos de código realizadas nesta evolução foi incremento de código.

Feature Expression	Asset Name
Sorting	CountviewsAspect, OptionalFeatureAspect
Photo	PhotoController
Mobile Media	Core
Favourites	FavouritesAspect, PersisteFavoritesAspect, OptionalFeatureAspect

RELEASE 05 (added CopyPhoto Feature)



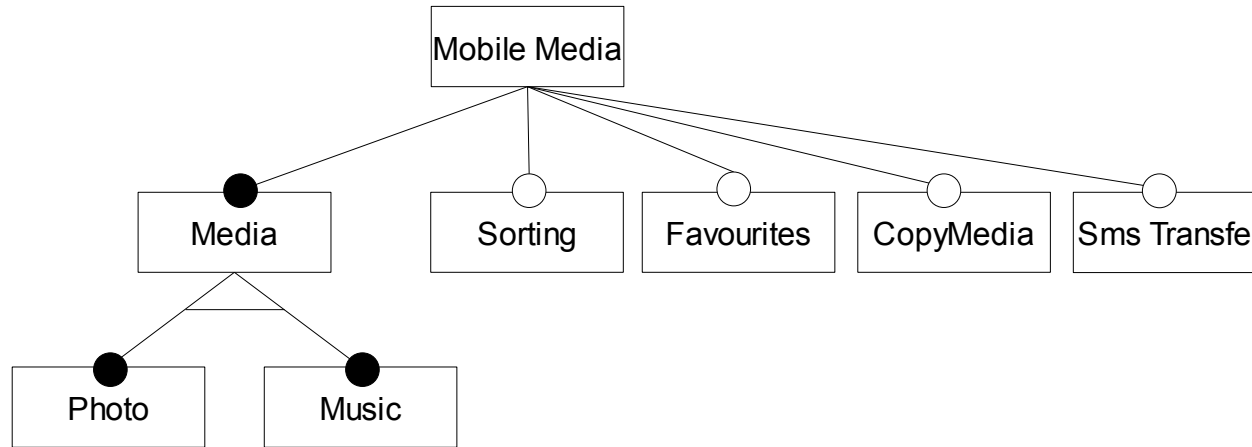
RELEASE 06 (added Sms feature)



Feature Expression	Asset Name
Sorting	CountviewsAspect, OptionalFeatureAspect
Photo	PhotoController
Mobile Media	Core, MainUIMidlet ^{1,2}
Favourites	FavouritesAspect, PersisteFavoritesAspect, OptionalFeatureAspect
CopyPhoto	CopyPhotoAspect, PhotoViewControler, OptionalFeatureAspect

SmsTransfer	CopyPhotoAspect, PhotoViewControler, OptionalFeatureAspect, SmSAspect
-------------	--

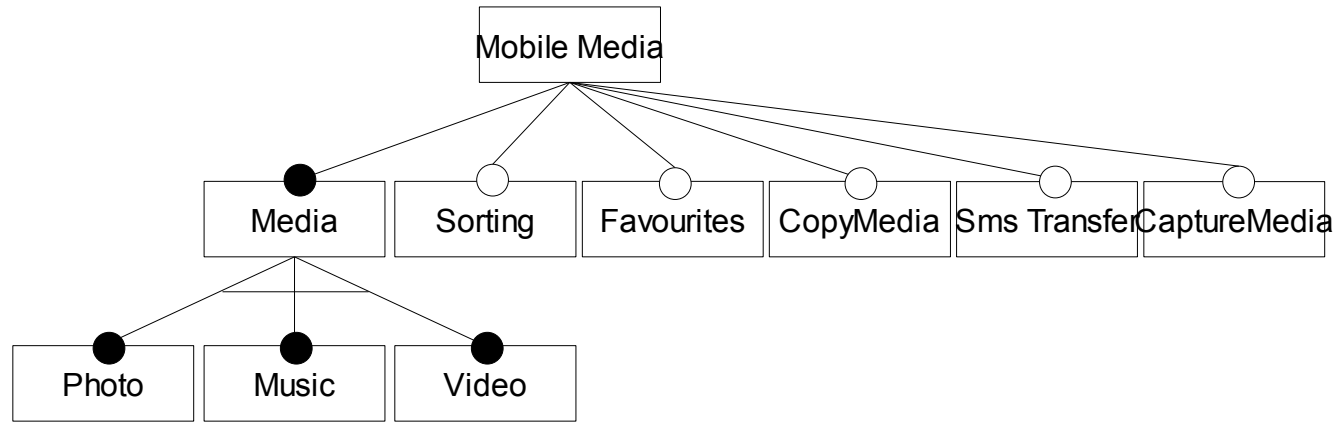
RELEASE 07 (added Music feature and changed Photo feature to alternative)



CountViewsAspect → lancs.midp.mobilephoto.optional.sorting.CountViewsAspect.aj
PhotoAspect → lancs.midp.mobilephoto.alternative.photo.PhotoAspect.aj
Core → ubc.midp.mobilephoto.core.*
MainUIMidlet' → ubc.midp.mobilephoto.core.ui.MainUIMidlet.java
MediaController' → ubc.midp.mobilephoto.core.ui.controller.MediaController.java
MediaAccessor' → ubc.midp.mobilephoto.core.ui.datamodel.MediaAccessor.java
AlbumData' → ubc.midp.mobilephoto.core.ui.datamodel.AlbumData.java
AlbumListScreen' → ubc.midp.mobilephoto.core.ui.datamodel.AlbumListScreen.java
ImageAlbumData → lancs.midp.mobilephoto.alternative.photo.ImageAlbumData.java
ImageAlbumAccessor → lancs.midp.mobilephoto.alternative.photo.ImageAlbumAccessor.java
FavouritesAspect → lancs.midp.mobilephoto.optional.favourites.FavouritesAspect
PersisteFavoritesAspect → lancs.midp.mobilephoto.optional.favourites.PersisteFavoritesAspect
OptionalFeatureAspect → lancs.midp.mobilephoto.optional.OptionalFeatureAspect.aj
CopyPhotoAspect → lancs.midp.mobilephoto.optional.copyPhoto.CopyPhotoAspect.aj
PhotoViewController → lancs.midp.mobilephoto.optional.copyPhotoOrSms.PhotoViewController.java
SmSAspect' → lancs.midp.mobilephoto.optional.sms.SmSAspect.aj
MusicAspect → lancs.midp.mobilephoto.alternative.music.MusicAspect.aj
MusicAlbumData → lancs.midp.mobilephoto.alternative.music.MusicAlbumData.java
MusicMediaAccessor → lancs.midp.mobilephoto.alternative.music.MusicMediaAccessor.java
PlayMediaScreen → lancs.midp.mobilephoto.alternative.music.PlayMediaScreen.java
PhotoViewScreen → lancs.midp.mobilephoto.alternative.photo.PhotoViewScreen.java

Feature Expression	Asset Name
Sorting	CountviewsAspect, OptionalFeatureAspect
Photo	PhotoAspect', PhotoViewControler ¹ , PhotoViewScreen ¹² , ImageAlbumData, ImageMediaAccessor
MobileMedia	Core, MainUIMidlet ^{4,5} , MediaController ^{6,7} , MediaAccessor ^{10,11} , AlbumData ^{8,9} , AlbumListScreen ^{13,14} ,
Favourites	FavouritesAspect, PersisteFavoritesAspect, OptionalFeatureAspect
CopyMedia	CopyPhotoAspect, PhotoViewControler, OptionalFeatureAspect
SmsTransfer	CopyPhotoAspect, PhotoViewControler, OptionalFeatureAspect, SmSAspect ^{2,3}
Music	MusicAspect, MusicAlbumData, MusicMediaAccessor, PlayMediaScreen

RELEASE 08 (added Video feature)



CountViewsAspect → lancs.midp.mobilephoto.optional.sorting.CountViewsAspect.aj
PhotoAspect → lancs.midp.mobilephoto.alternative.photo.PhotoAspect.aj
Core → ubc.midp.mobilephoto.core.*
MainUIMidlet → ubc.midp.mobilephoto.core.ui.MainUIMidlet.java
MediaController → ubc.midp.mobilephoto.core.ui.controller.MediaController.java
MediaAccessor → ubc.midp.mobilephoto.core.ui.datamodel.MediaAccessor.java
AlbumData → ubc.midp.mobilephoto.core.ui.datamodel.AlbumData.java
AlbumListScreen → ubc.midp.mobilephoto.core.ui.datamodel.AlbumListScreen.java
ImageAlbumData → lancs.midp.mobilephoto.alternative.photo.ImageAlbumData.java
ImageAlbumAccessor → lancs.midp.mobilephoto.alternative.photo.ImageAlbumAccessor.java
FavouritesAspect → lancs.midp.mobilephoto.optional.favourites.FavouritesAspect
PersisteFavoritesAspect → lancs.midp.mobilephoto.optional.favourites.PersisteFavoritesAspect
OptionalFeatureAspect → lancs.midp.mobilephoto.optional.OptionalFeatureAspect.aj
CopyPhotoAspect → lancs.midp.mobilephoto.optional.copyPhoto.CopyPhotoAspect.aj
PhotoViewController → lancs.midp.mobilephoto.optional.copyPhoto.PhotoViewController.java
SmSAspect → lancs.midp.mobilephoto.optional.sms.SmSAspect.aj
MusicAspect → lancs.midp.mobilephoto.alternative.music.MusicAspect.aj
MusicAlbumData → lancs.midp.mobilephoto.alternative.music.MusicAlbumData.java
MusicMediaAccessor → lancs.midp.mobilephoto.alternative.musicvideo.MusicMediaAccessor.java
MultiMediaData → lancs.midp.mobilephoto.alternative.music.MultiMediaData.java
PlayMediaScreen → lancs.midp.mobilephoto.alternative.music.PlayMediaScreen.java
PhotoViewScreen → lancs.midp.mobilephoto.alternative.photo.PhotoViewScreen.java
CopyPhotoTargets → lancs.midp.mobilephoto.optional.copyPhoto.CopyPhotoTargets.java
CopyPhotoAndMusic → lancs.midp.mobilephoto.optional.copyPhoto.CopyPhotoAndMusic.aj
CopyPhotoAndVideo → lancs.midp.mobilephoto.optional.copyPhoto.CopyPhotoAndVideo.aj
SmsOrCapturePhotoOrVideo → lancs.midp.mobilephoto.optional.smsorcapturephotoorvideo.SmsOrCapturePhotoOrVideo.java
SmsOrCapturePhotoOrVideo → lancs.midp.mobilephoto.optional.smsorcapturephoto.SmsOrCapturePhoto.java
SelectMediaController → lancs.midp.mobilephoto.alternative.photomusicvideo.SelectMediaControler.java
SelectTypeOfMedia → lancs.midp.mobilephoto.alternative.photomusicvideo.SelectTypeOfMedia.java

Feature Expression	Asset Name
Sorting	CountviewsAspect, OptionalFeatureAspect
Photo	PhotoAspect, PhotoViewControler, PhotoViewScreen' ¹ , ImageAlbumData, ImageMediaAccessor, OptionalFeatureAspect, CopyPhotoTargets, SmsOrCapturePhotoOrVideo, SmsOrCapturePhoto, SelectMediaController' ⁶ , SelectTypeOfMedia' ⁷ ,
MobileMedia	Core, MainUIMidlet, MediaController, MediaAccessor, AlbumData, AlbumListScreen
Favourites	FavouritesAspect, PersisteFavoritesAspect, OptionalFeatureAspect
CopyMedia	CopyPhotoAspect, CopyPhotoTargets, CopyPhotoAndMusic, CopyPhotoAndVideo, PhotoViewControler, OptionalFeatureAspect
SmsTransfer	CopyPhotoAspect, CopyPhotoTargets, OptionalFeatureAspect, SmSAspect' ^{2,3} , SmsOrCapturePhotoOrVideo,

	SmsOrCapturePhoto
Music	MusicAspect, MusicAlbumData, MusicMediaAccessor' ⁵ , MultiMediaData' ⁴ , PlayMediaScreen, CopyPhotoAndMusic, OptionalFeatureAspect, SelectMediaController', SelectTypeOfMedia'
Video	CopyPhotoAndVideo, OptionalFeatureAspect, SmsOrCapturePhotoOrVideo, MultimediaData', SelectMediaController', SelectTypeOfMedia'
CaptureMedia	SmsOrCapturePhotoOrVideo, SmsOrCapturePhot