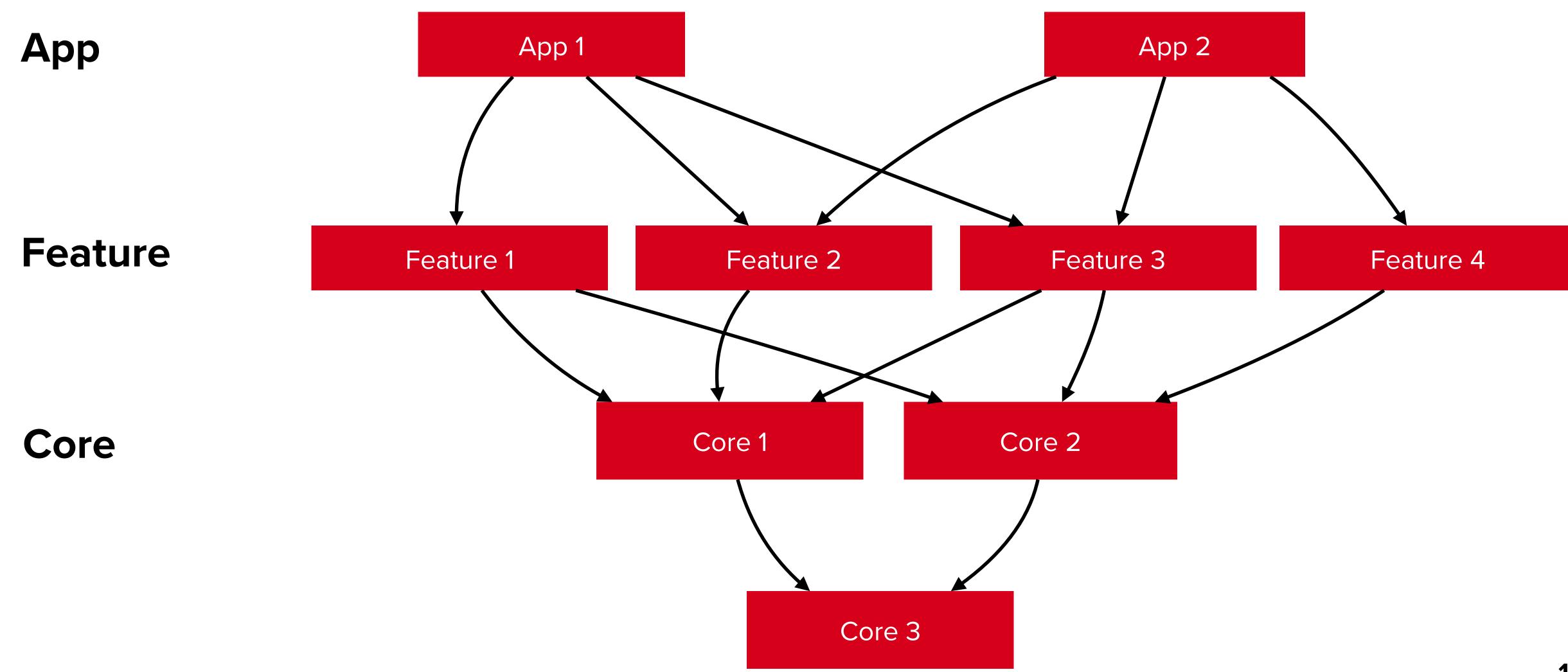
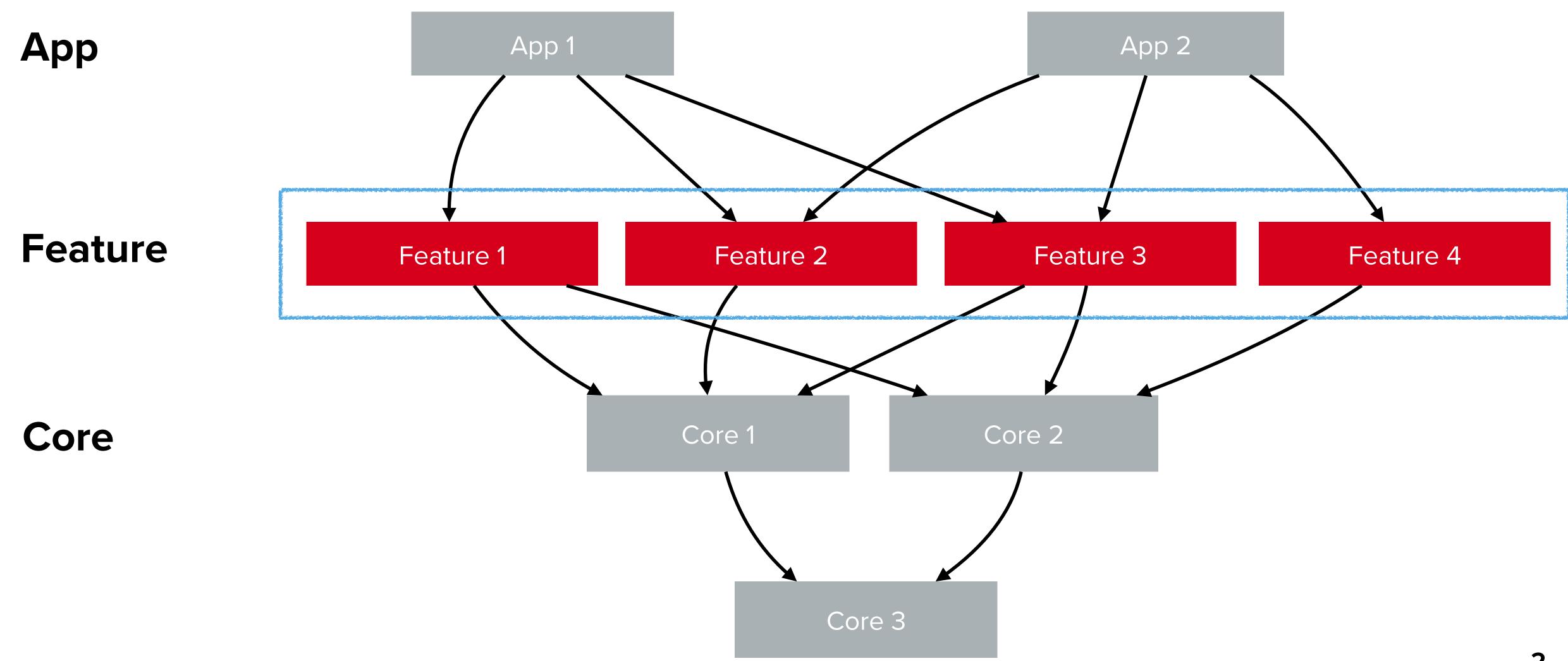
Слои модулей



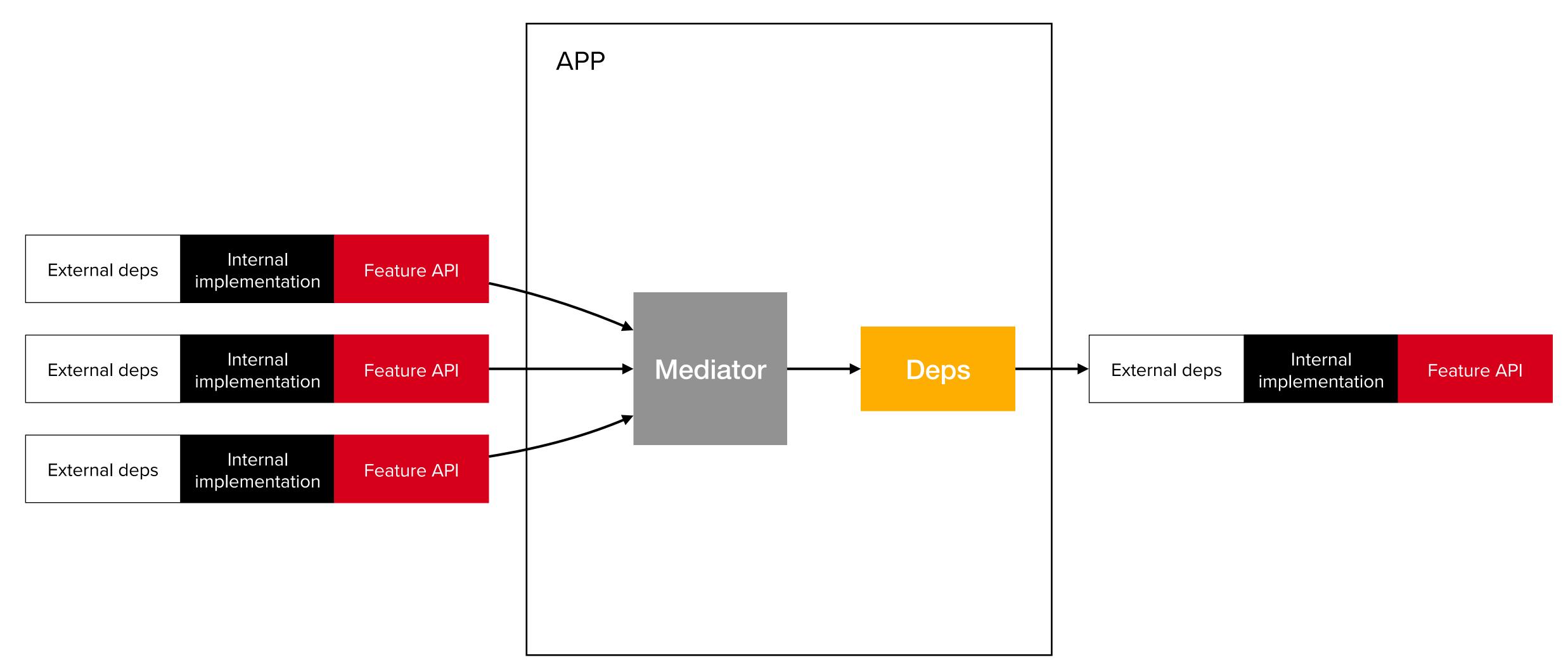
Feature-модули независимы друг от друга



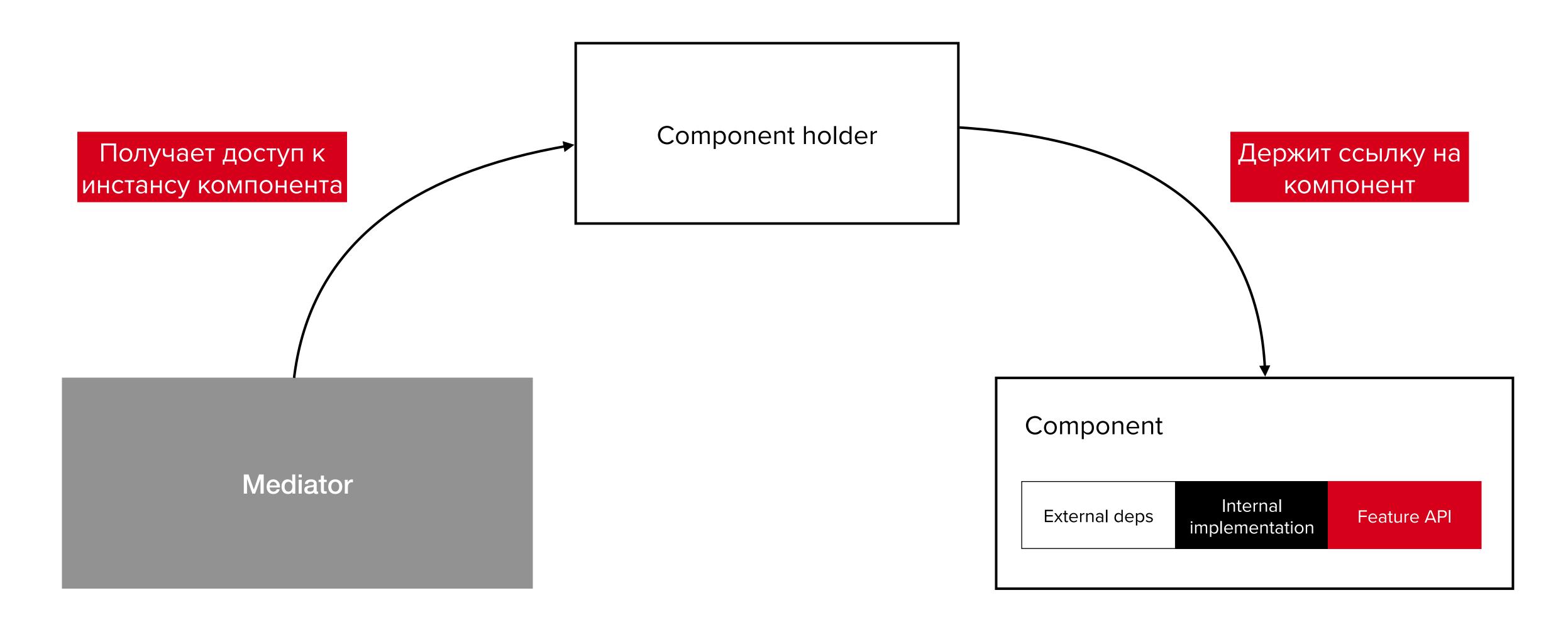
Анатомия Feature

External deps Internal implementation Feature API

Взаимодействие через Mediator



Детали реализации



внешнего компонента

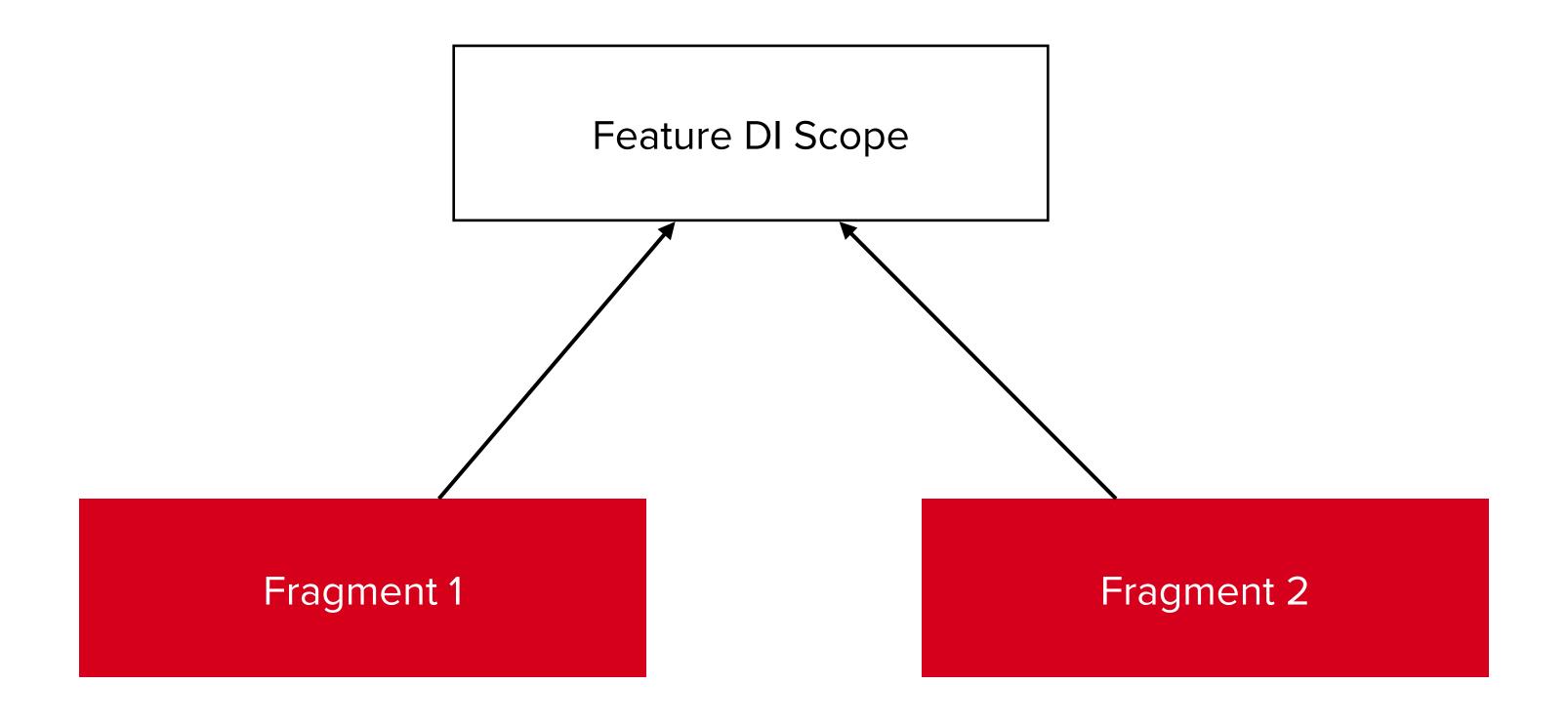
внешнего компонента

внешнего компонента

- ru.hh.android
 - ▼ Image: component
 - ▼ Image holder
 - ComponentHolder
 - SingleComponentHolder
 - ▼ 🛅 initer
 - ForceComponentInitializer.kt
 - keeper
 - ComponentDependency
 - ComponentKeeper
 - MultiComponentKeeper
 - SingleInstanceComponent
 - dependency_handler
 - ExternalParametrizedScopeHolder
 - 🚰 ExternalScopeHolder
 - MultiParametrizedScopeHolder
 - 🙀 MultiScopeHolder
 - 😪 Parametrized Scope Holder
 - 🕝 ScopeHolder
 - 🗽 ScopeHolderUtils.kt
 - UnableToOpenScopeException

contrak thena

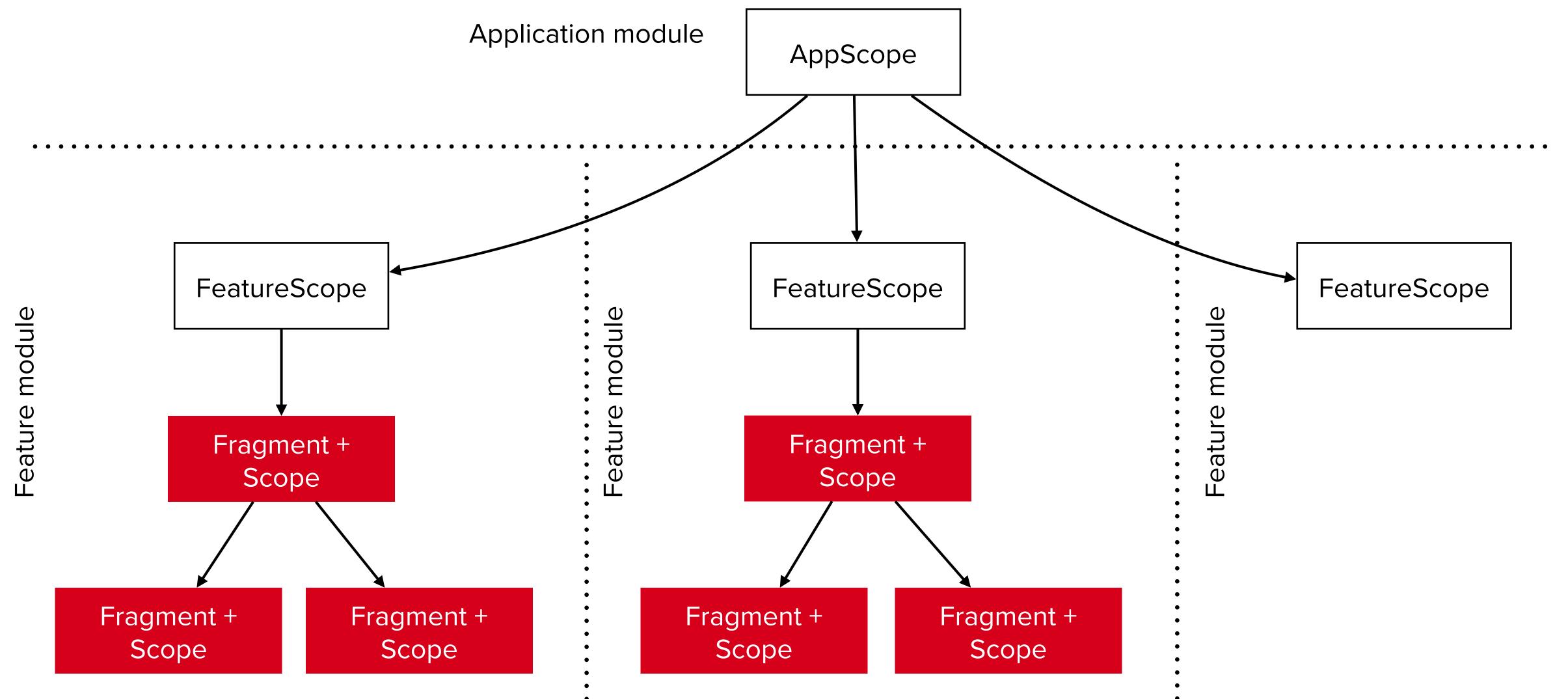
Не всегда есть прямое соответствие между фрагментами и DI-скоупами

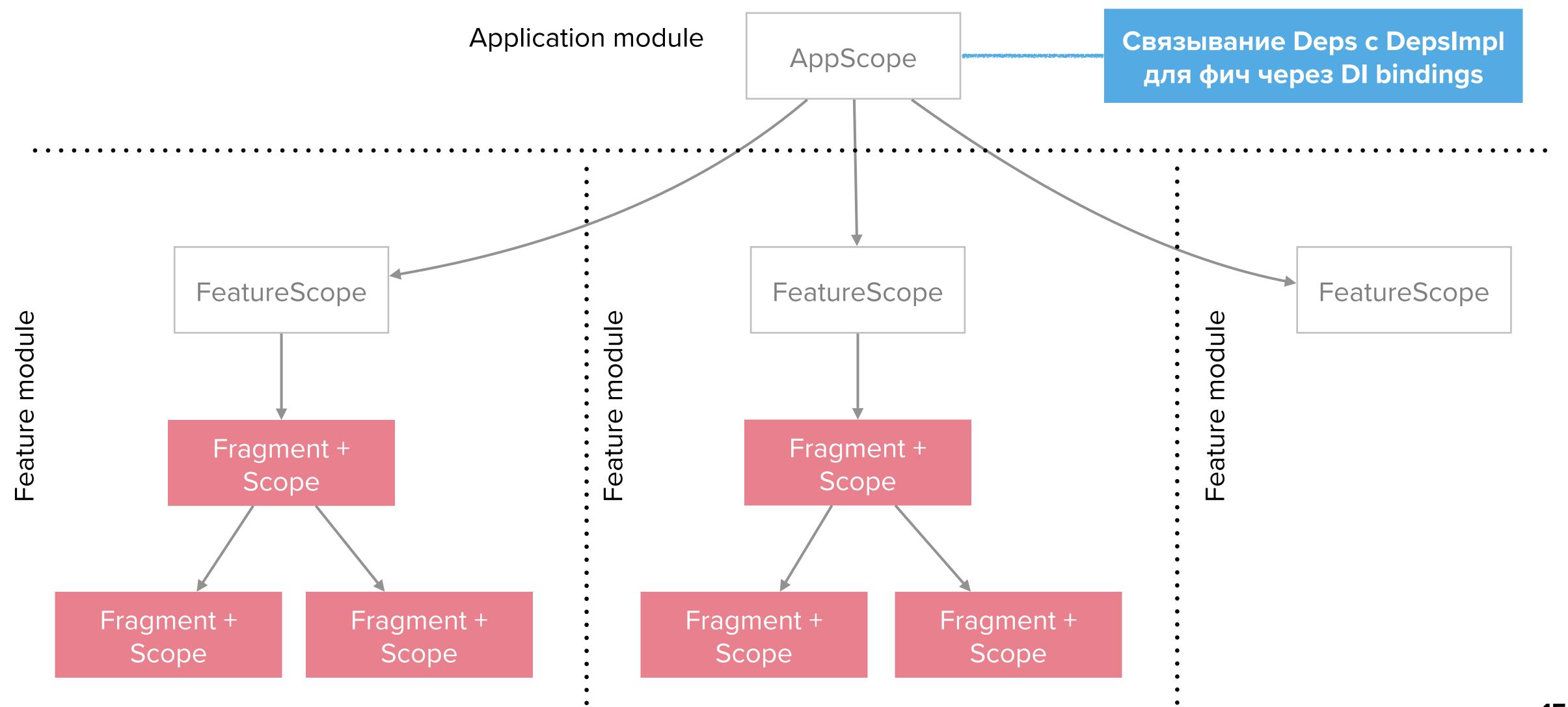


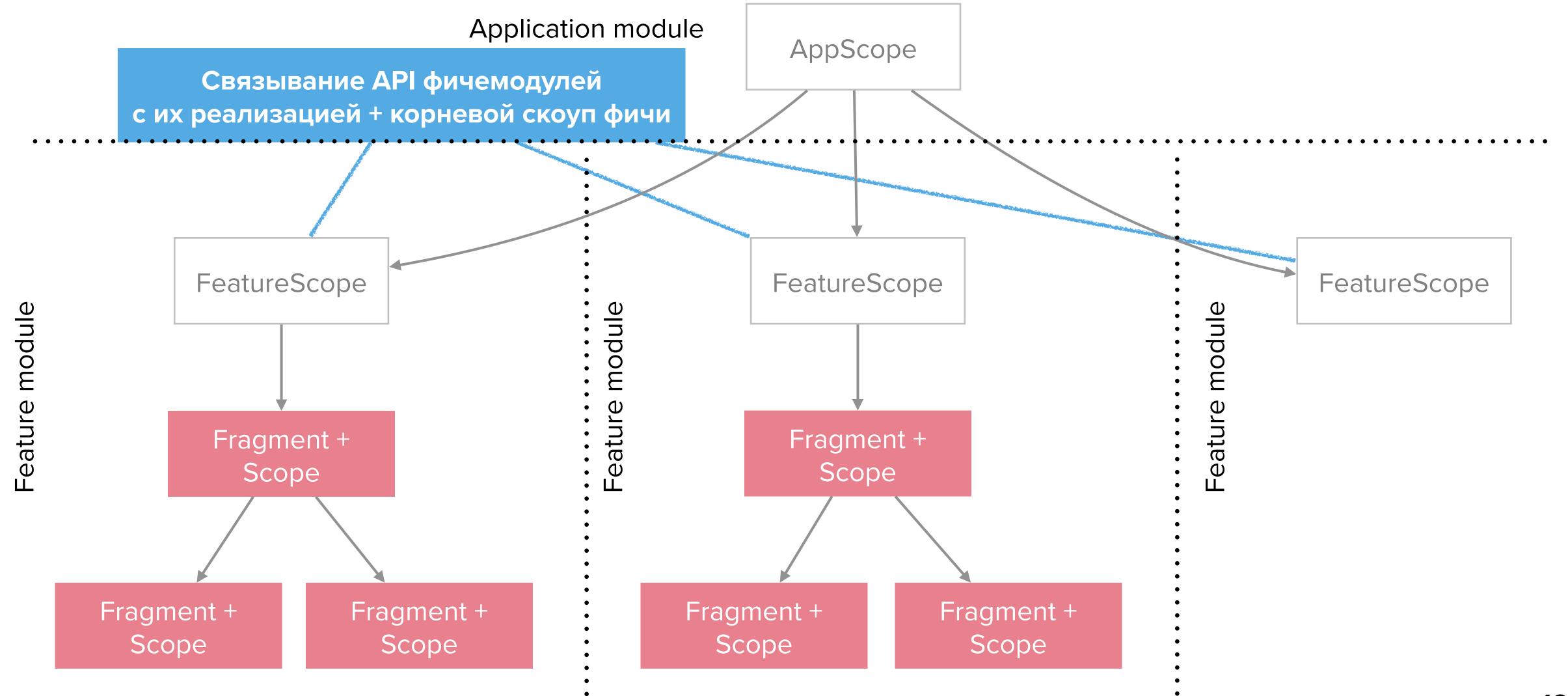
COATION TO A TROPORTION OF THE PROPERTY OF THE

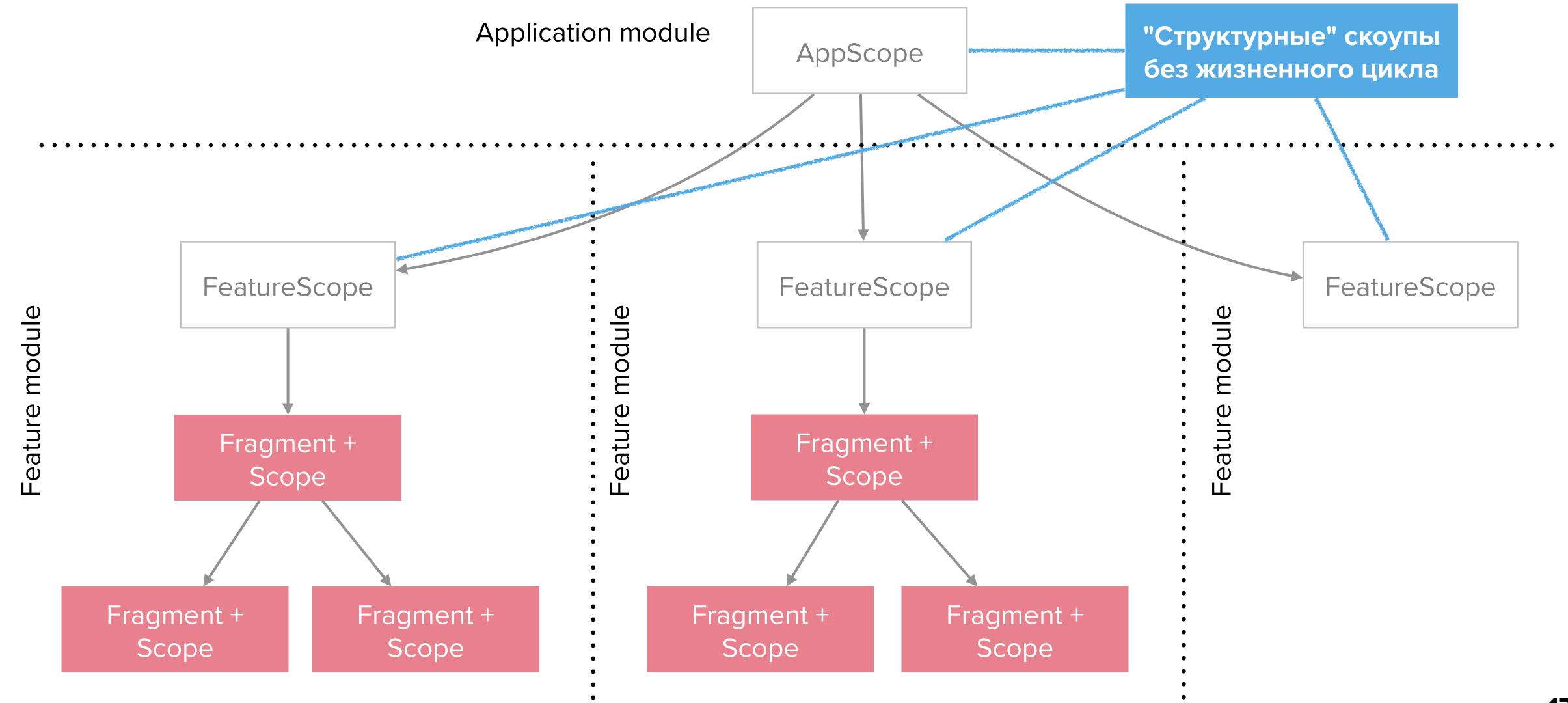
Какой из этих фрагментов должен открывать и закрывать DI Scope? В какой момент? 🤥

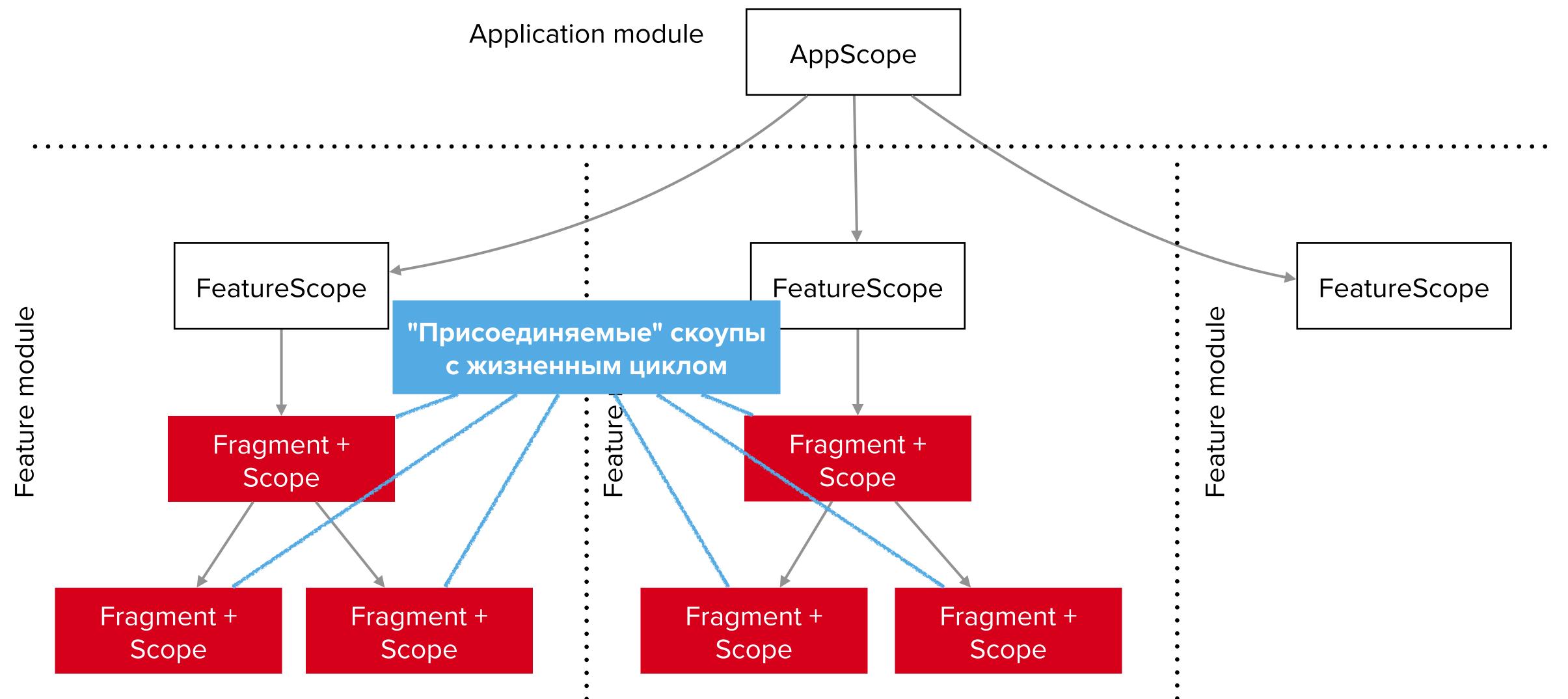
CLONI LO.







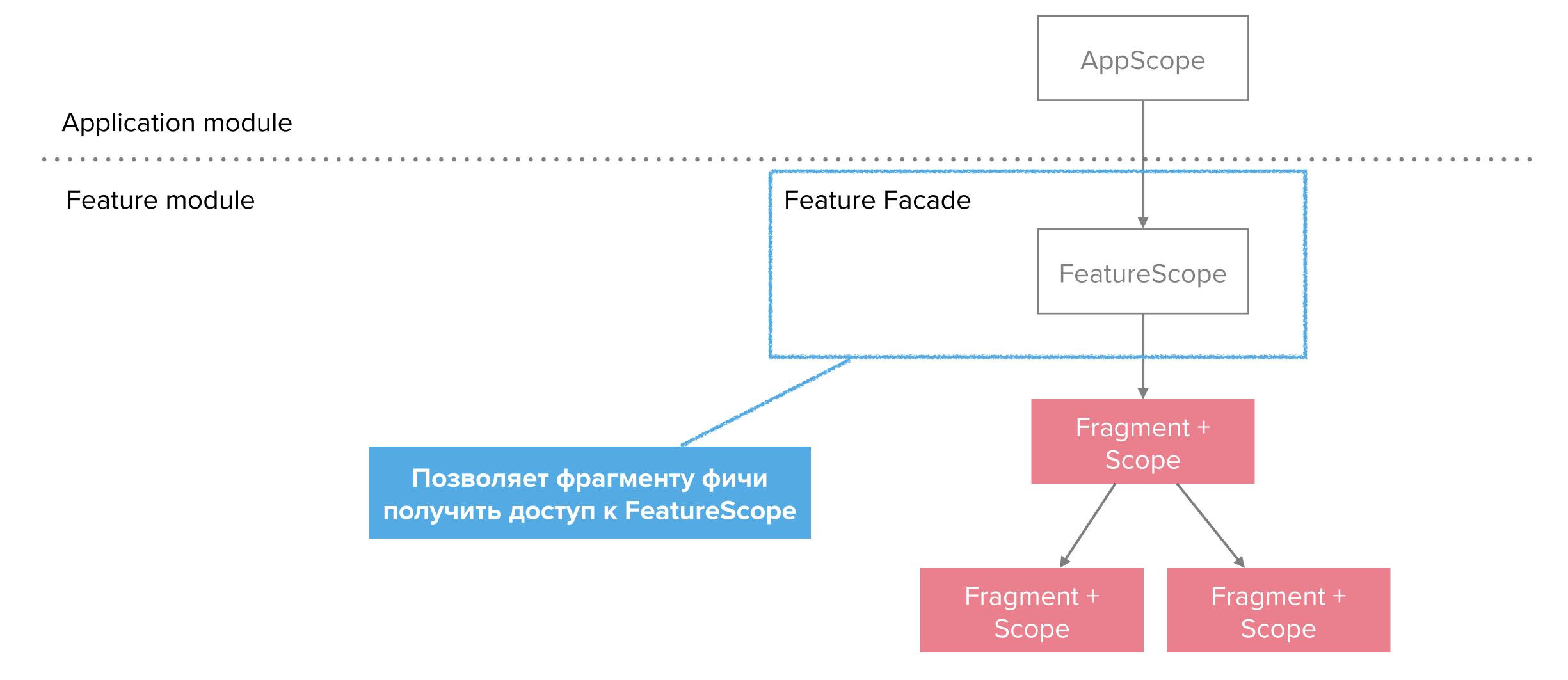




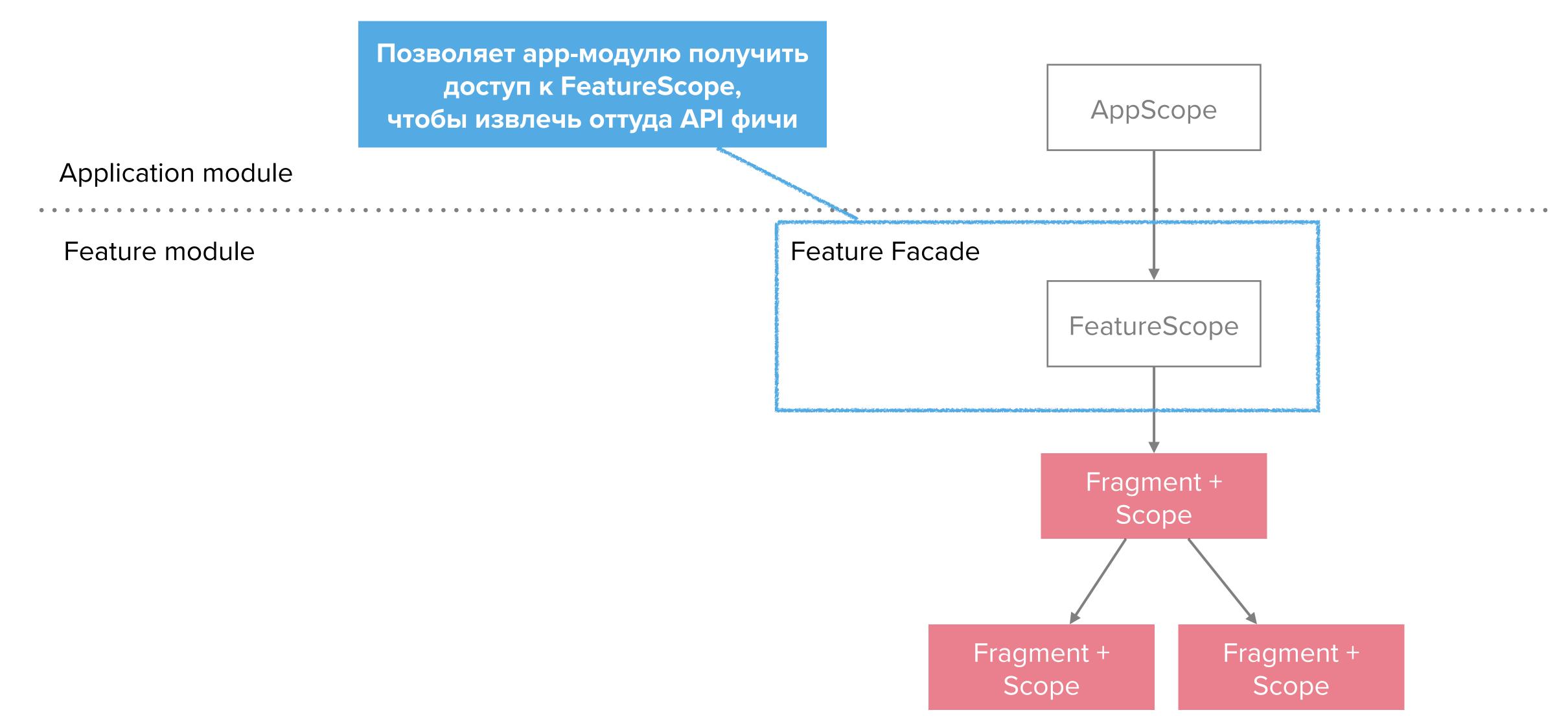
Feature Facade

AppScope Application module Feature module Feature Facade FeatureScope Fragment + Scope Fragment + Fragment + Scope Scope

Feature Facade



Feature Facade



Пример: выбор фото для профиля



```
interface ProfileDeps {
    fun photoPickerFragment(profileId: String): Fragment
    fun photoSelections(profileId: String): Observable<String>
}
```

```
@InjectConstructor
class ProfileApi {
    fun profileFragment(userProfile: UserProfile): Fragment =
        ProfileFragment.newInstance(userProfile)
}
```

```
class ProfileFacade : FeatureFacade<ProfileDeps, ProfileApi>(
    depsClass = ProfileDeps::class.java,
    apiClass = ProfileApi::class.java,
    featureScopeName = "ProfileFeature",
    featureScopeModule = {
        Module().apply {
            bind<ProfileApi>().singleton().releasable()
        }
    }
}
```

```
internal class ProfileFragment : Fragment(R.layout.fragment_profile) {
   private val di = DiFragmentPlugin(
       fragment = this,
                                                                           Скоуп фрагмента фичи открывается от
       parentScope = { ProfileFacade().featureScope }, 
                                                                                 структурного скоупа фичи
       scopeNameSuffix = { userProfile.id },
       scopeModules = { arrayOf(ProfileScreenModule(userProfile)) }
   private val viewModel by lazy { di.get<ProfileViewModel>() }
   /* ... */
                                                     @InjectConstructor
                                                     internal class ProfileViewModel(
                                                         private val initialUserProfile: UserProfile,
 В реализации экрана фичемодуля можем
                                                       private val deps: ProfileDeps,
         инжектить внешние Deps
                                                          disposable: CompositeDisposable
```

Внутри feature-модуля photo picker

```
data class PhotoSelection(
                               @InjectConstructor
    val selectionId: String,
                               class PhotoPickerApi {
   val photo: Photo
                                   private val photoSelectionRelay =
                                        PublishRelay.create<PhotoSelection>()
                                   fun photoPickerFragment(args: PhotoPickerArgs): Fragment =
                                        PhotoPickerFragment.newInstance(args)
                                   fun photoSelections(): Observable<PhotoSelection> =
                                       photoSelectionRelay.hide()
                                   internal fun postPhotoSelection(photoSelection: PhotoSelection) =
                                        photoSelectionRelay.accept(photoSelection)
```

Внутри feature-модуля photo picker

```
class PhotoPickerFacade : FeatureFacade<PhotoPickerDeps, PhotoPickerApi>(
    depsClass = PhotoPickerDeps::class.java,
    apiClass = PhotoPickerApi::class.java,
    featureScopeName = "PhotoPickerFeature",
    featureScopeModule = {
        Module().apply {
            bind<PhotoPickerApi>().singleton()
        }
    }
}
```

Внутри арр-модуля

```
@InjectConstructor
internal class ProfileDepsImpl(
    // для реализации зависимостей фичемодуля, может понадобиться Арі другого фичемодуля
    private val photoPickerApi: PhotoPickerApi
) : ProfileDeps {
    override fun photoPickerFragment(profileId: String): Fragment =
        photoPickerApi.photoPickerFragment(PhotoPickerArgs((profileId)))
   override fun photoSelections(profileId: String): Observable<String> =
        photoPickerApi.photoSelections()
            .filter { it.selectionId == profileId }
            .map { it.photo.url }
```

Внутри арр-модуля

```
private fun initTp() {
    // Используем rootScope Toothpick-а в качестве AppScope
    // и устанавливаем туда зависимости для фичемодулей
    Toothpick.openRootScope()
        .installModules(FeatureDepsModule())
/**
 * Здесь происходит описание связей для склейки фичемодулей
 */
internal class FeatureDepsModule : Module() {
    init {
        bind<ProfileDeps>().toClass<ProfileDepsImpl>()
        bind<PhotoPickerApi>().toProviderInstance { PhotoPickerFacade().api }
```

