Using Kotlin Classes in Android

Less Theory, More Practice

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Overview

Object Declaration

- Companion object

Interface

No longer Getters and Setters

Primary Constructors

Data Classes

Demo

Object Declaration [object & companion object]

- RetrofitClient
- Constants

Interface

- GithubAPIService

Model classes [say bye to Getters and Setters]

- ErrorResponse
- SearchResponse
- Owner
- Repository

Demo

Use Primary Constructor

- Model classes

Data Class

- Model classes

```
object Value {
    val pi = 3.14
}

Value.x
```

```
class Value {
    companion object {
        val pi = 3.14
    }
}

Value.Companion.x
// Value.x
```

Object and Companion Object

- An object declaration inside a class is marked with companion keyword
- Companion object is initialized when corresponding class is loaded
- Object declarations are initialized lazily when accessed

Data Class

Why we need Data Class?

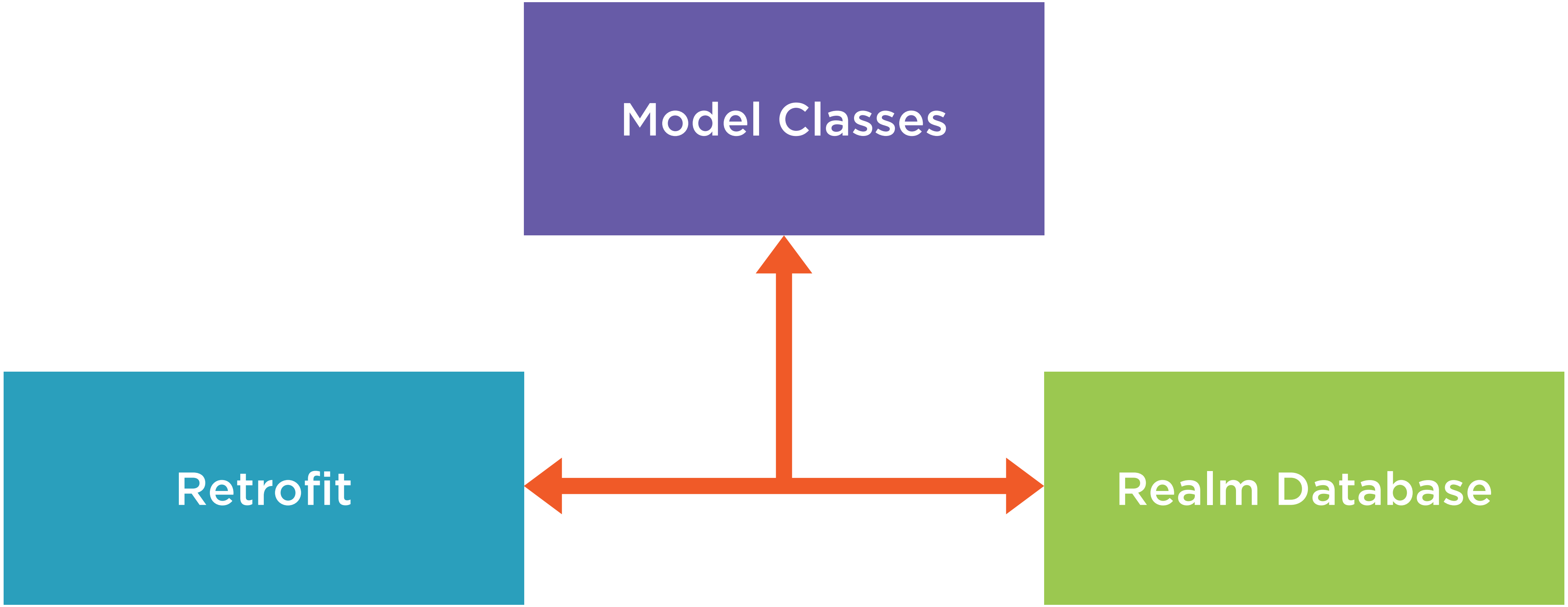
- Sometimes we are only concerned for data
- We do not care about the objects and their references

Such class contains default methods

- equals() / hashCode()
- toString()
- copy()

Features of Data Class

- Primary constructor with at least one parameter
- All parameters must be marked with var or val
- They cannot be sealed, open, abstract or inner



Model Classes
Retrofit
Realm Database

Summary

Object Declaration

- Companion object

Interface

Said bye to Getters and Setters

Primary Constructors

Data Classes

References

Official Kotlin Documentation

Pluralsight Kotlin Courses