



DEVGRID

# Code Review

*on Android Projects*

**DG Conference Week**

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# Summary

- Performance
- Aesthetics
- Dirt Code
- Accessibility
- Dangerous Code



# Performance





# Memory-Leaks



```
class LoginActivity : Activity()  
  
    /* before screen appears */  
    override fun onResume() {  
        openTheChannel()  
    }  
  
    /* before screen be hidden */  
    override fun onStop(){  
        // close the channel  
    }  
  
}
```



# Deep layouts

```
<LinearLayout  
  orientation="vertical">  
  <ScrollView>  
    <LinearLayout  
      orientation="vertical">  
        <View color="blue"/>  
        <View color="green"/>  
        <View color="gray"/>  
      </LinearLayout>  
    </ScrollView>  
</LinearLayout>
```



# Deep layouts

```
<ScrollView>  
  <LinearLayout  
    orientation="vertical">  
    <View color="blue"/>  
    <View color="green"/>  
    <View color="gray"/>  
  </LinearLayout>  
</ScrollView>
```





# Aesthetics

- Names of files, variables, methods, classes...
- File locations...
- Java blood

```
if (x != null)  
    call(x)
```

```
x?.let { call(x) }
```



# Dirt Codes

- Unused imports
- Unused resources like drawables, strings, colors, and so on
- Commented code

```
// val advice = "remove that please"  
// print("I know your pain, don't be afraid, $advice!")
```





# Accessibility

```
<!-- Recommended -->
<ImageView
    android:width="wrap_content"
    android:height="wrap_content"
    contentDescription=
    "This image represents a small dog." />
```

```
<!-- Don't recommended -->
<string name="yes">YES</string>
<!-- Recommended -->
<string name="yes">yes</string>
```

```
<!-- Don't recommended -->
<TextView android:textSize="16px" />
<TextView android:textSize="16dp" />
<!-- Recommended -->
<TextView android:textSize="16sp" />
```



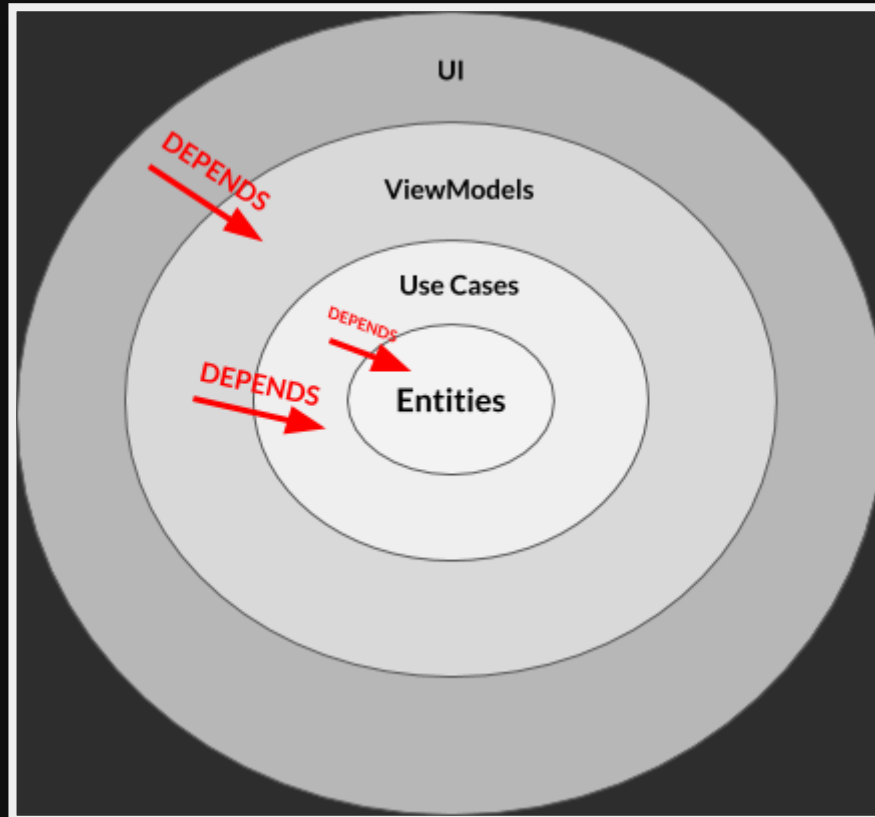
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# Dangerous Code





# Architecture violation



## Similar components

*Component X does Y*

*Component Z does Y*

*Component A does Y*

# Danger code zones

The danger code is the code that the reviewer looks at the first moment and says:

*"This code doesn't make any sense"*

or

*"Nothing uses this code"*



## Advantages

- You can use in public repositories that you have;
- You can have your repository rated according to your code quality.

## Disadvantages

- Need to share your code with Codebeat;
- It is not effective to check XML files.

# Automated Code Review - Codebeat

gabrielbmoro / MovieDBApi

<> Code Issues Pull requests Actions Projects Wiki Security Insights Settings

Branch: master Go to file Add file Code

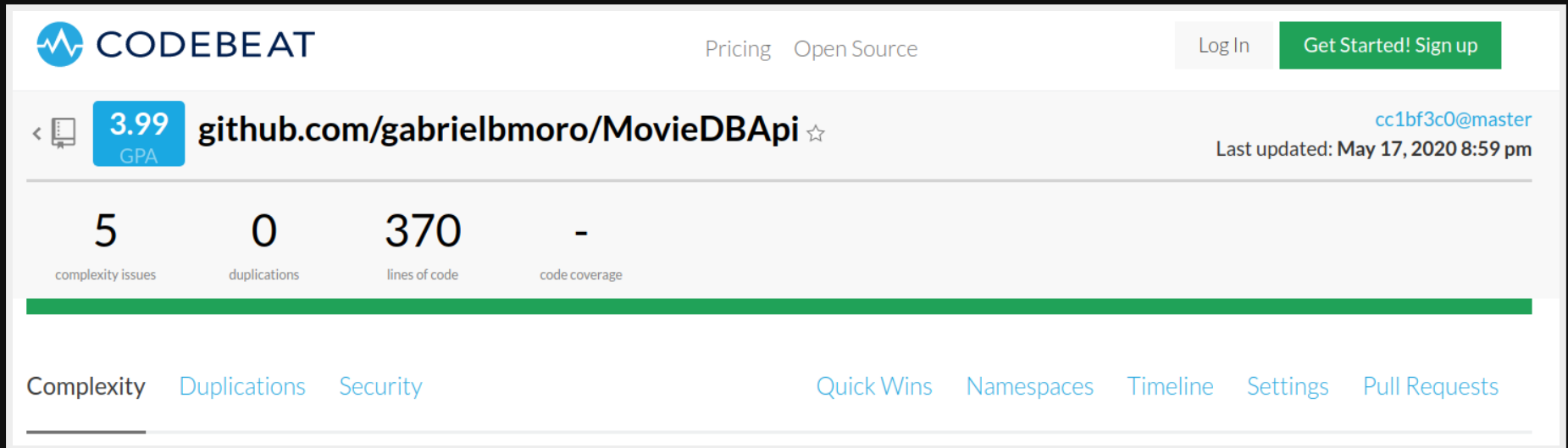
moro committed cc1bf3c on May 17 ✓ 145 commits 1 branch 14 tags

ProgrammingChallenge	Updating the gradle version	2 months ago
img	updating the architecture	3 months ago
README.md	Removing the kts to use my old friend groovy	2 months ago

README.md

codebeat A

# Automated Code Review - Codebeat







DEVGRID

# Supported Languages - Codebeat



Swift



Obj-C



Elixir (beta)



Go



Ruby



Python



Java



Kotlin



Javascript



Typescript





# Conclusion

*A good tip is to have your checklist to make your code reviews better.*

# Useful Links

- [Code Review on Android Projects - Part 1](#)
- [Code Review on Android Projects - Part 2](#)
- [Code Review on Android Projects - Part 3](#)