Effective TDD on Android with Kotlin



in Olmo Gallegos Hernández



Example project

https://github.com/voghDev/ChuckNorrisJokes



Overview - Basis of the workshop

- Custom approach to TDD
- Testable code
- Android architecture, MVP + Passive View
- Kotlin coroutines

http://chucknorris.io API

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• Get random joke

- Get random joke
- Get joke by category

- Get random joke
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- Get categories

- Get random joke
- Get joke by category
- Get categories
- Search jokes by keyword

Example Request: Random joke by category

JSON

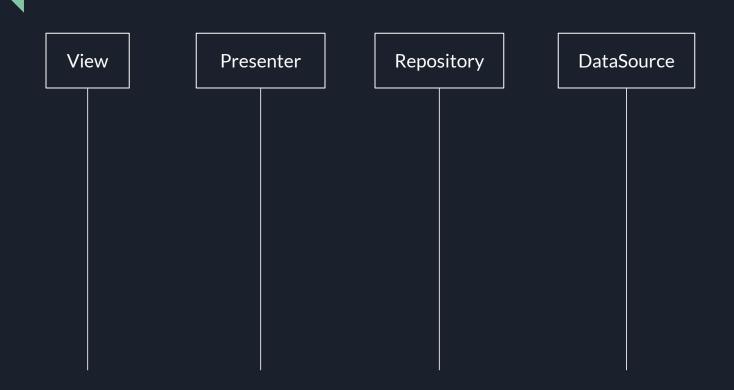
```
"category": [
    "dev"
],
    "icon_url":
"https://assets.chucknorris.host/img/avatar/chuck-norris.png",
    "id": "4rfk-ymnth28ny8q2pbrow",
    "url": "http://api.chucknorris.io/jokes/4rfk-ymnth28ny8q2pbrow",
    "value": "Chuck Norris went out of an infinite loop."
}
```

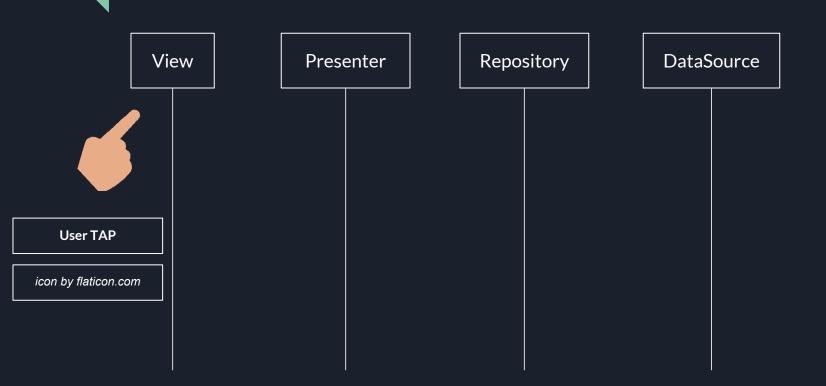
View

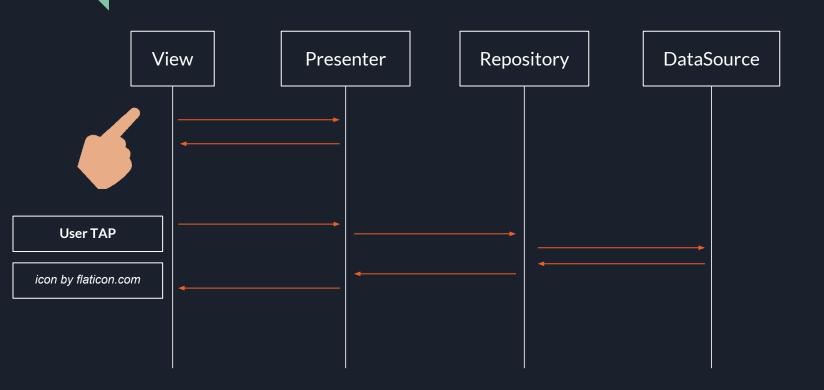
Presenter

Repository

DataSource

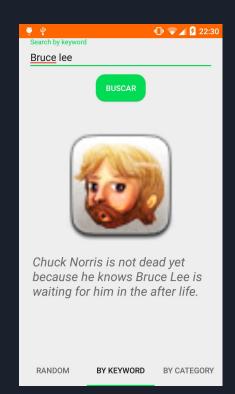


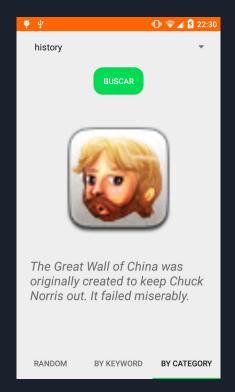




Starting from empty App







Time to get some work done!

Credits

Bandhook Kotlin - https://github.com/antoniolg/Bandhook-Kotlin

OpenLibraryApp - https://github.com/jrgonzalezg/OpenLibraryApp

kotlinx.coroutines - https://kotlinlang.org/docs/reference/coroutines.html

kategory.io - http://kategory.io

Passive View - https://martinfowler.com/eaaDev/PassiveScreen.html

Conclusions

- TDD is not the real challenge; having testable code is
- Tests need to be maintained, as requirements do
- The real win is to reproduce bugs directly in your tests
- Less executions more productivity

That's all folks!