

## **Explore: Kickstarter Repository**

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#### Introduction - What is Kickstarter?

## KICKSTARTER

- An American company, that maintains a crowdfunding platform
- Their mission: "Help bring creative projects to life"
- Got a good idea but no funds? Upload your idea on Kickstarter

## Introduction - Why explore Kickstarter repository?



- 1. They have an open source Android app
- 2. It allows me to see how they built their application
- 3. It allows me to **discover** their implementations ideas

## Comparison → hello-tablet VS kickstarter



#### Similarities:

- ViewModel
- RxJava
- Dagger
- ...



#### Differences:

- GraphQL
- LeakCanary
- Makefile
- ...

## **GraphQL**



- A query language for your API
  - → Write queries using an object structure instead of a text string
- 2. It gives us the power to request what we need **exactly** and nothing more
  - → Instead of receiving the full response, only get the fields that we asked for
- 3. Get many resources, in a **single** request
  - → Instead of calling multiple requests, send only one that will deliver the requested resources

## Apollo + GraphQL







- 1. A GraphQL client that generates **Java** models from your GraphQL queries
  - → These models will allow us to make GraphQL requests
- 2. You can use these **generated** models to make requests to your API
  - → Apollo includes a *client*, that also allows you to configure networking options
- 3. It will keep your query statements organized and easy to access from Java

## Why use GraphQL? - A query language for your API

Write queries using an object structure instead of a text string

```
● ● ●

SELECT name, gender, description FROM superheroes
```

```
{
    superheroes {
        name
        gender
        description
    }
}
```

# Why use GraphQL? - Ask for what you need, get exactly that

Instead of receiving the full response, only get the fields that we asked for

```
hero {
    name
hero {
 name
 description
```

```
{
    "data": {
        "hero": {
            "name": "The Hulk"
        }
    }
}
```

```
"data": {
    "hero": {
        "name": "The Hulk",
        "description": "Some green guy"
     }
}
```

# Why use GraphQL? - Get many resources in a single request

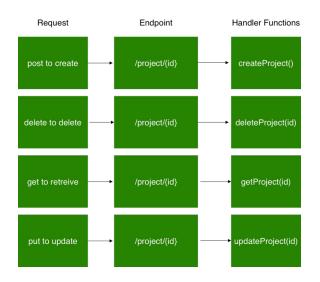
Instead of calling multiple requests, send only one that will deliver the requested resources

```
{
  hero {
    name
    description
    enemies {
      name
      description
    }
  }
}
```

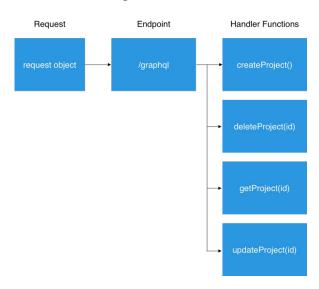
```
"data": {
 "hero": {
   "name": "The Hulk",
    "description": "Some green guy",
    "enemies": [
        "name": "Thanos",
        "description": "Some purple guy"
```

### How does GraphQL work?

#### **REST API EXAMPLE**



#### **GRAPHQL API EXAMPLE**



- Instead of having multiple endpoints, have a single endpoint
- It stays between the client and the server
  - → Receives client requests and fetches the necessary data

## LeakCanary



- A library for detecting memory leaks
  - → Memory leak = Memory allocated to an object which can't be reclaimed
  - → Consequences? Slowing down and/or crashing your application
- 1. Watch destroyed instances using weak references
  - → Weak reference = A reference not strong enough to keep the object in memory
- 2. Clear the weak references after waiting for 5 seconds & run the GC
  - → If any of the watched instances are still "alive", these could be potential leaks

#### MakeFile

A **file** containing a set of **bash** instructions, some examples:

- Instructions to fetch application secrets & properties
- Update the new employee's IDE with the company's styling preferences.

### Thanks!

#### **Contact Nimble**

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