



FLUTTER VIKINGS
2022



Fun with code generation

by Anna Leushchenko



Women
Techmakers



Experts

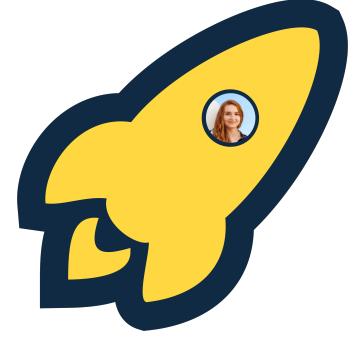
tide

Anna 🚗❤️📱🇺🇦

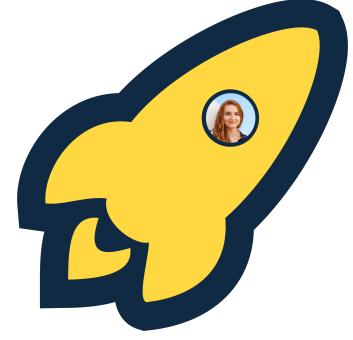
foxanna

foxanna

AnnaLeushchenko



Fun with code generation



Fun* with code generation

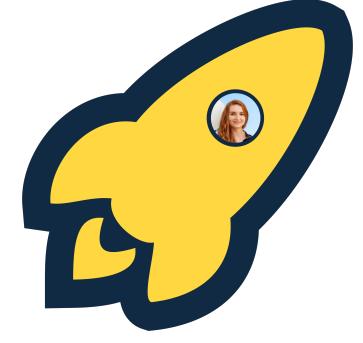
* **Finally Understanding Nothing**
Finally Understanding development
significantly reduced implementation



Fun* with code generation**

* significantly reduced implementation

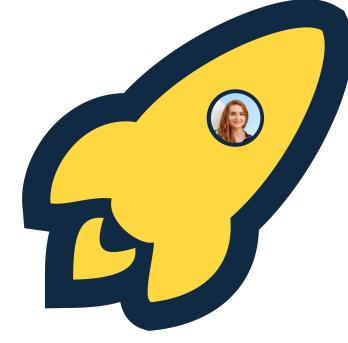
** by build_runner



Fun with code generation



- build_runner
- freezed
- json_serializable
- retrofit
- auto_route
- flutter_gen
- injectable
- i18n
- bdd_widget_test



Fun with code generation



- build_runner // data models
- freezed // JSON serialization
- json_serializable // REST API
- retrofit // navigation
- auto_route // assets
- flutter_gen // dependency injection
- injectable // localization
- i18n // tests
- bdd_widget_test



Space Flight News app



The image displays three iPhone screens showing the Space Flight News app interface, illustrating a news article flow.

iPhone 1 (Left): Shows a list of news articles:

- Space Development Agency to take another stab at space-to-aircraft laser communications (SpaceNews, 8/5/2022)
- Aging Telesat satellite running out of fuel as projected LEO costs soar (SpaceNews, 8/5/2022)
- FCC considers opening up more Ku-band to non-GEO satellite operators (SpaceNews, 8/5/2022)
- As losses mount, Astra announces a radical pivot to a larger launch vehicle (Arstechnica, 8/5/2022)
- 10 Years Since Landing, NASA's Curiosity Mars Rover Still Has Drive (NASA, 8/5/2022)
- South Korea's first lunar orbiter on way to the moon (SpaceNews, 8/5/2022)
- Rocket Report: SpaceX launches Korea to the Moon, Georgia's litigious spaceport (Arstechnica, 8/5/2022)

iPhone 2 (Middle): Shows a detailed view of the "Rocket Report" article:

Article Title: Rocket Report: SpaceX launches Korea to the Moon, Georgia's litigious spaceport

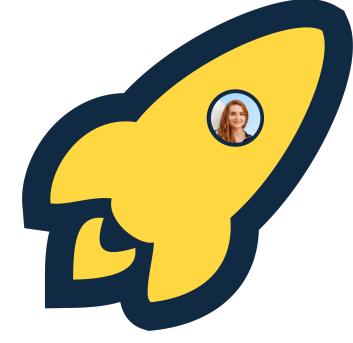
Published by: Arstechnica on 8/5/2022

Text Preview: "Union Carbide most certainly has a contract with Camden."

Call-to-action: View related articles

iPhone 3 (Right): Shows a list of news articles, likely related to the one viewed in the middle screen:

- KARI names KPLO as it begins communication testing (NASA Spaceflight, 5/28/2022)
- SpaceX closing in on South Korean Moon launch (Teslarati, 7/6/2022)
- South Korean spacecraft fueled for ride from Cape Canaveral to the moon (Spaceflight Now, 7/30/2022)
- Cape Canaveral on the cusp of new records amid blistering launch rate (Spaceflight Now, 8/3/2022)
- SpaceX set for first Moon launch [webcast] (Teslarati, 8/3/2022)
- SpaceX launches Danuri, South Korea's first mission to the Moon (NASA Spaceflight, 8/4/2022)
- Rocket Report: SpaceX launches Korea to the Moon, Georgia's litigious spaceport (Arstechnica, 8/5/2022)



Space Flight News app data source

<https://thespacedevs.com/snapi>



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Spaceflight News API
Spaceflight-related news articles, blogs and reports

The Spaceflight News API, or SNAPI for short, started because Derk Weijers wanted an app where he could easily check the latest spaceflight news. As a Linux Engineer by profession, he had some experience with programming, but never had he developed a mobile app. At the start of 2018, he started following an online course for mobile app development (React Native). While doing so, he also started planning the app, and soon came to the conclusion that he would first need to build an API as a uniform interface to get data into his app. The Spaceflight News API was born.

Features

News Articles
Retrieves a list of articles. You can query this endpoint with parameter 'news_site' to return articles provided by a particular news site. This endpoint can also be queried with 'search' to search for articles which match your search parameter.

[DOCUMENTATION](#) [API ENDPOINT](#)

Blogs
Retrieves a list of blogs. You can query this endpoint with parameter 'news_site' to return blogs provided by a particular news site. This endpoint can also be queried with 'search' to search for blogs which match your search parameter.

[DOCUMENTATION](#) [API ENDPOINT](#)

Reports
Retrieves a list of reports (like ISS daily reports). You can query this endpoint with parameter 'news_site' to return reports provided by a particular news site. This endpoint can also be queried with 'search' to search for reports which match your search parameter.

[DOCUMENTATION](#) [API ENDPOINT](#)

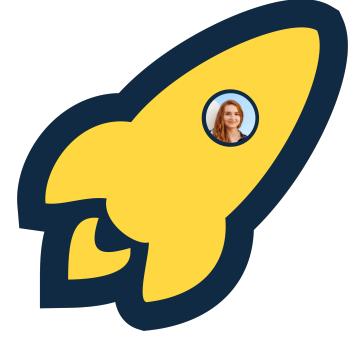
Links to Launch Library 2 launches and events
SNAPI and LL2 are integrated with each other. Articles returned from the SNAPI have a list that may contain launch/event IDs from LL2. This way, you can give your users a more complete experience by showing related news/launches/events.

[DOCUMENTATION](#) [API ENDPOINT](#)

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Code review



Space Flight News app

https://github.com/foxanna/flutter_vikings_2022



Screenshot of the GitHub repository page for `foxanna / flutter_vikings_2022`.

The repository is private and contains 1 branch and 0 tags. The main file listed is `11. README.md`, which was committed 3 minutes ago by `adf1afb` with 11 commits.

The `README.md` file content is as follows:

```
Space Flight News app

Source code of the mobile application that displays a list of recent space-flight related news obtained from Spaceflight News API. Created with Flutter.
```

Three screenshots of the mobile application are shown, each displaying a list of space-related news articles. Yellow arrows point from the first two screenshots to the third one, highlighting the news item about the South Korean Moon launch.

About

Source code for the mobile application and slides for the "Fun with code generation" talk by Anna Leushchenko at Flutter Vikings on August 31, 2022.

Code

`code-generation` `flutter` `build-runner`

Readme

MIT license

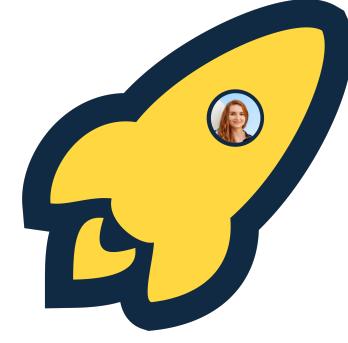
0 stars

1 watching

0 forks

Languages

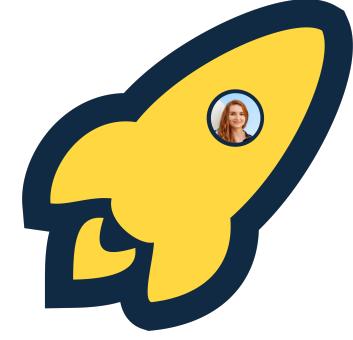
Dart 97.9% Other 2.1%



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Basic and advanced networking in Dart and Flutter – the Tide way



<https://link.medium.com/QG3TIRTuzsb>
<https://youtu.be/EQZhlrevmTs>

Published in Tide Engineering Team

Anna (Domashych) Leushchenko May 26, 2022 · 3 min read

Basic and advanced networking in Dart and Flutter — the Tide way. Part 0: introduction.

[Read in Ukrainian](#)

Basic and advanced networking in Dart and Flutter

Introduction.

Flutter | the tide way

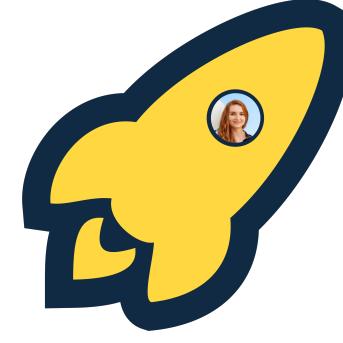
Most applications, be it mobile, web, or desktop, depend on some kind of backend. Thus, an API layer is an integral part of application implementation.

This six-part series presents tools and approaches that facilitate API layer implementation in Flutter and Dart applications we use at Tide:

Basic and advanced networking in Dart and Flutter

the tide way

Anna Leushchenko



Yet another localization approach in Flutter



<https://link.medium.com/7txcMb6xzsb>
<https://youtu.be/DTGp84cEnr4>

Published in Flutter Community

Anna (Domashych) Leushchenko 🇺🇦❤️💻 May 12, 2020 · 4 min read

Yet another localization approach in Flutter

| [Read in Ukrainian](#)

I recently came across the task of localization for Flutter application and was surprised by the variety of approaches, while none of them combined all the features I was looking for.

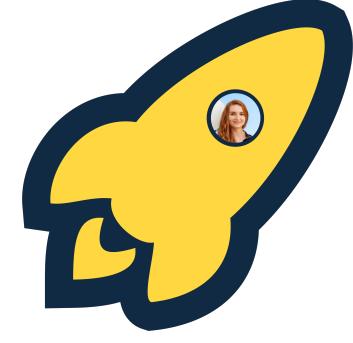
My requirements for the approach were:

- translations are stored in separate files, one file per each language (format didn't really matter, smth commonly used like .json) located anywhere in the project;

Yet another localization approach in Flutter

by ANNA LEUSHCHENKO

Flutter Global Summit'2021 Volume 2 Dec 09, 2021



BDD in Flutter by Oleksandr Leushchenko



<https://link.medium.com/1lsAHw2yzsb>
<https://youtu.be/ix80FmV2Gm0>

Oleksandr Leushchenko · Following · Mar 15, 2021 · 4 min read

BDD in Flutter

Flutter supports three testing types: unit, widget, and integration.

Unit tests prove that your code works, integration — that the app works. And it's not the same if you think about it. The code logic might not fulfill the business cases, and business cases might not cover all the implementation edge-cases.

Widget tests are in the middle. They are fast, close enough to your codebase, hence it is possible to cover edge-cases easily, and they are focused on the UI, i.e. they are more about business needs than about the code.

When you generate a new project there will be a widget test in it.

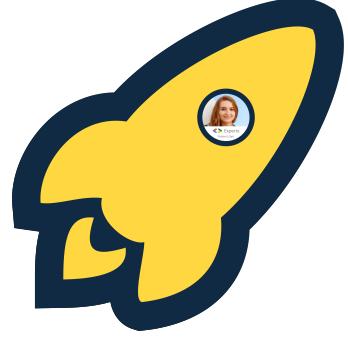
When Feature Scenario

What if What if

BDD in Flutter

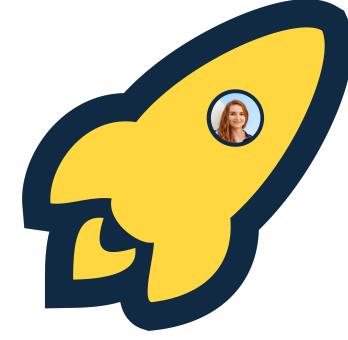
by Oleksandr Leushchenko

@olexale

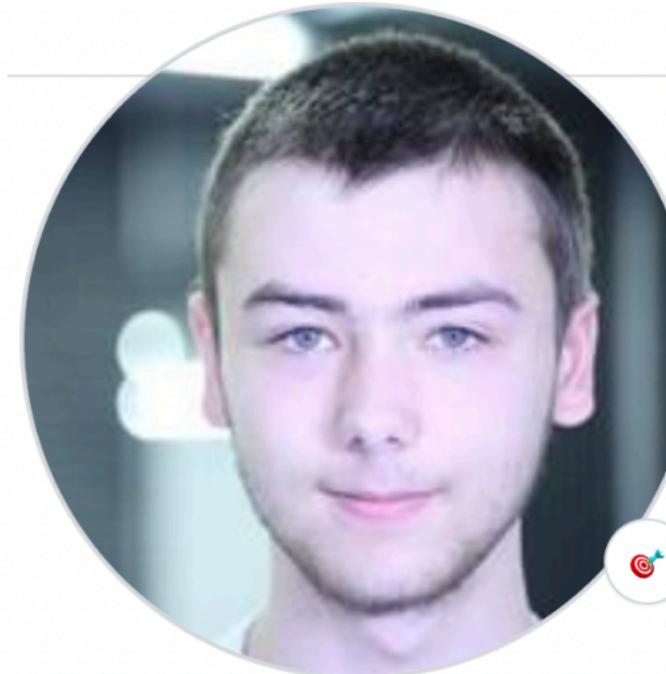


“Code generation is fun”

– Anna Leushchenko



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Oleksandr Leushchenko
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bdd_widget_test



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