

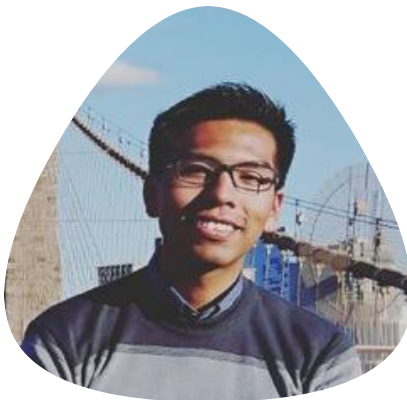


OPEN SOURCE ON TOP OF THE WORLD

DRUPAL AND ANDROID THROUGH REST

QUICK INTEGRATION

drupalmountaincamp.ch



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Overview

What we gonna talk about?

- | | | | |
|---|---------------------|---|---------------|
| 1 | Introduction | 4 | Android side |
| 2 | Existing approaches | 5 | Small details |
| 3 | Drupal side | 6 | Demo |



Introduction

Where does this come from?

How did I come up with this talk?

Some short background



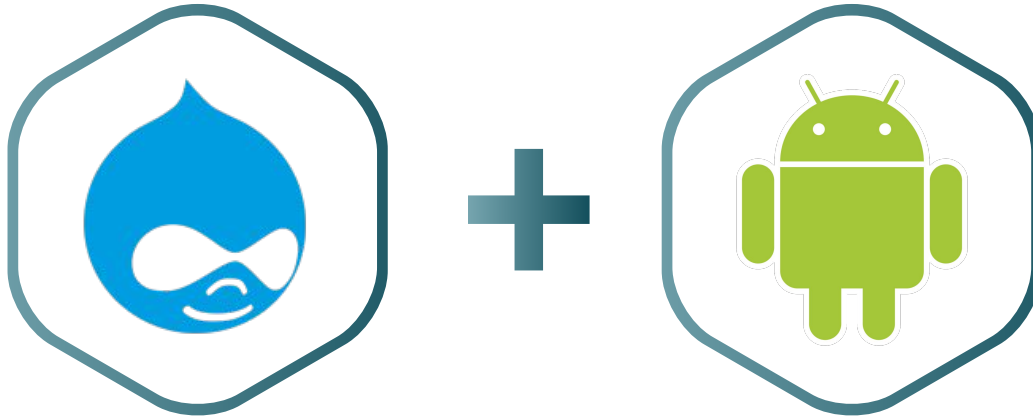
What tools to use?

And why?



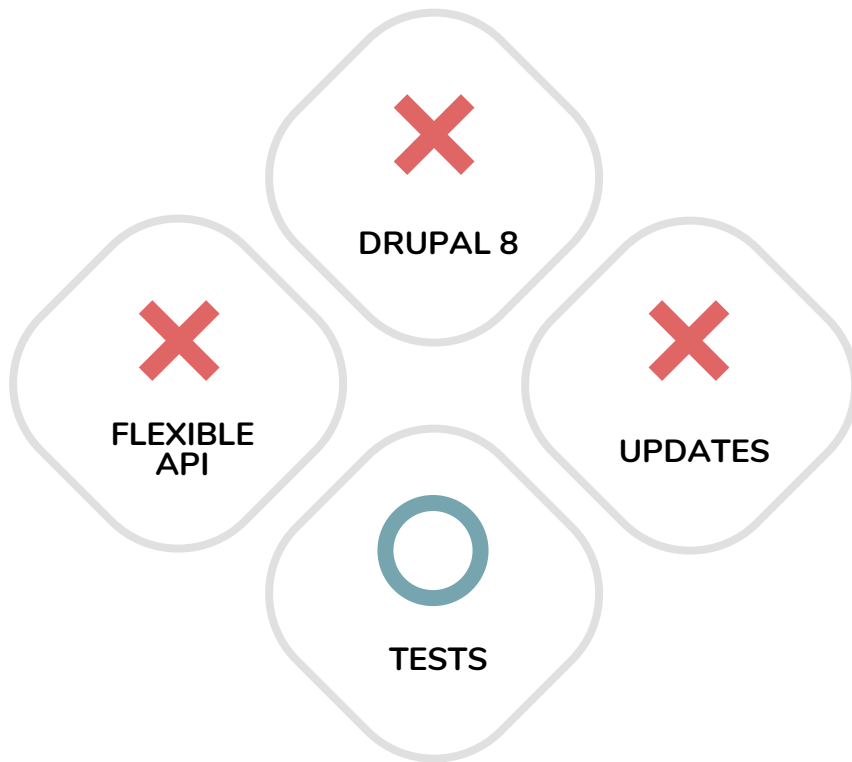
Our target users

Final decision



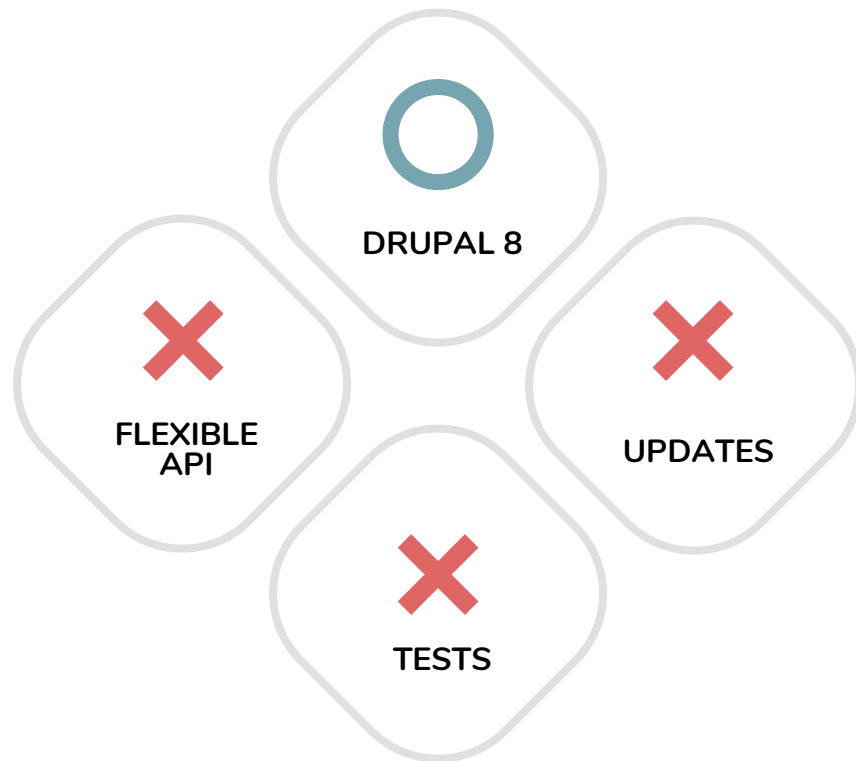
Drupalfit

<https://github.com/yongjih/drupalfit>



Simple Drupal 8 Login

<https://github.com/itech-planet/Simple-Drupal-8-Login-for-Android>



So many attempts

Either failed or outdated

<https://github.com/ajinkyakulkarni/DrupalAndroidApp>

<https://github.com/voidberg-archive/DrupalDroid>

What was next?



Drupal side

Configuration

REST modules

<https://www.drupal.org/docs/8/core/modules/rest/overview>



The screenshot shows the Drupal 8 user interface for the REST module overview. At the top is a dark navigation bar with links for Home, Manage, Shortcuts, and the user profile yongt9412. Below the navigation bar, there is a link to 'Show all columns'. A list of five REST modules is displayed, each with a checkbox icon and the module name: HAL, HTTP Basic Authentication, REST UI, RESTful Web Services, and Serialization. At the bottom of the list is a blue 'Install' button.

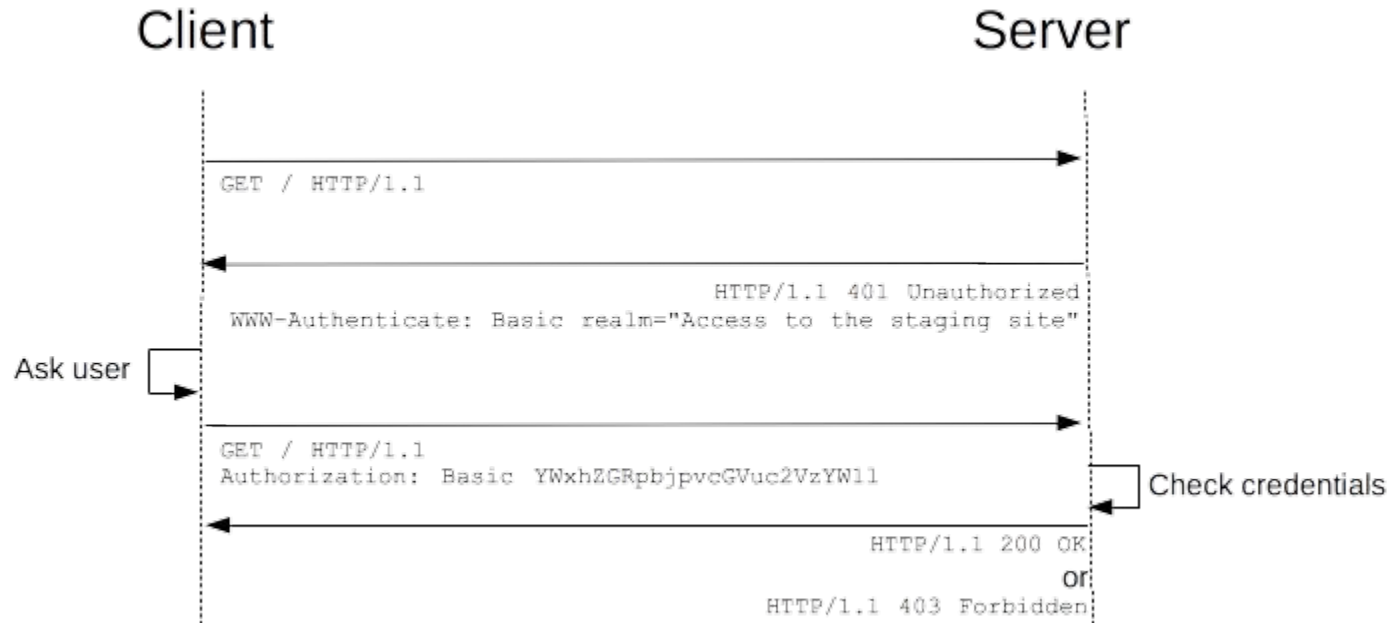
Module Name	Install
HAL	<input checked="" type="checkbox"/>
HTTP Basic Authentication	<input checked="" type="checkbox"/>
REST UI	<input checked="" type="checkbox"/>
RESTful Web Services	<input checked="" type="checkbox"/>
Serialization	<input checked="" type="checkbox"/>

[Show all columns](#)

[Install](#)

HTTP Basic authentication

https://www.drupal.org/docs/8/core/modules/basic_auth/overview



REST UI

<https://www.drupal.org/project/restui>

[Home](#) [Manage](#) [Shortcuts](#) [yongt9412](#)

formats and authentication by clicking on its "Edit" link.

Enabled

RESOURCE NAME	PATH	DESCRIPTION	OPERATIONS
Content	/node/{node}: GET, PATCH, DELETE /node: POST	methods: GET, POST formats: hal_json, json authentication: basic_auth	Edit ▼
User	/user/{user}: GET, PATCH, DELETE /entity/user: POST	methods: GET, POST formats: json authentication: basic_auth	Edit ▼

REST UI

admin/config/services/rest

[Home](#) [Manage](#) [Shortcuts](#) [yongt9412](#)

Granularity

Resource ▼

Methods

☒ GET

☒ POST

☐ DELETE

☐ PATCH

Accepted request formats

☐ hal_json

☒ json

☐ xml

Authentication providers

☒ basic_auth

☐ cookie

Save configuration

Android side

Configuration

To think about

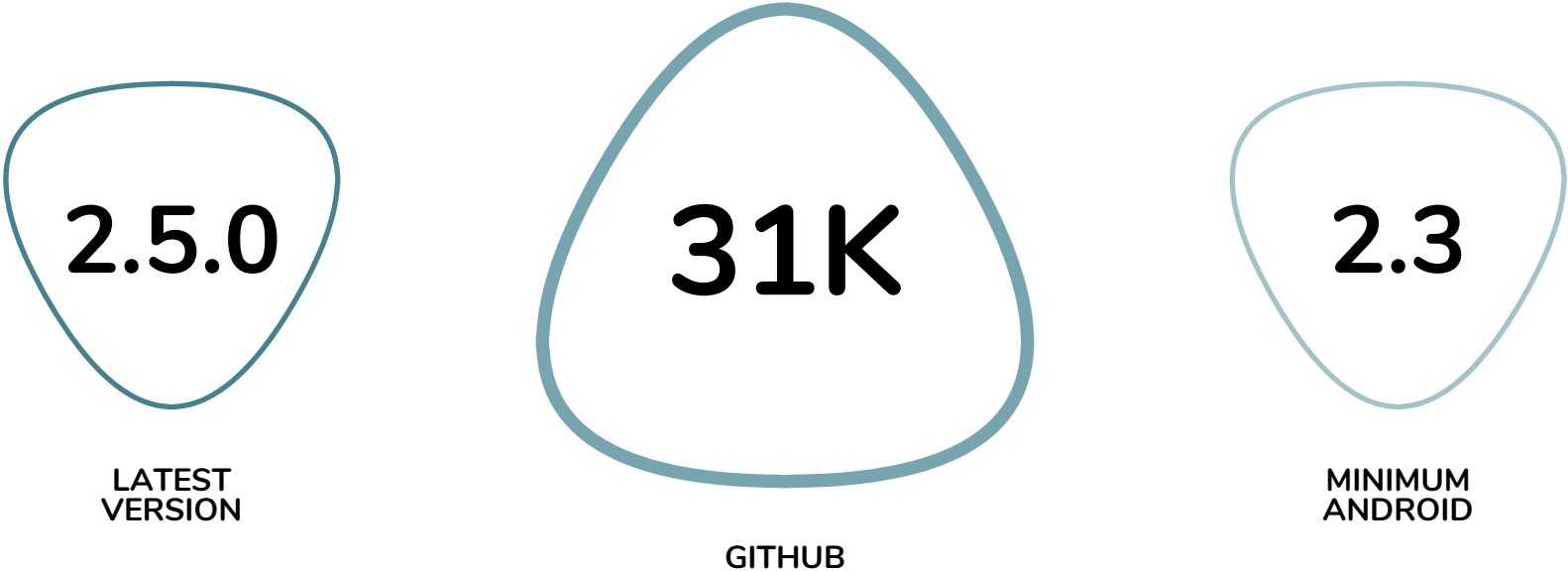
How do we, Drupal people, need to think of this?



POJO

Retrofit

A type-safe HTTP client for Android and Java



2.5.0

LATEST
VERSION

31K

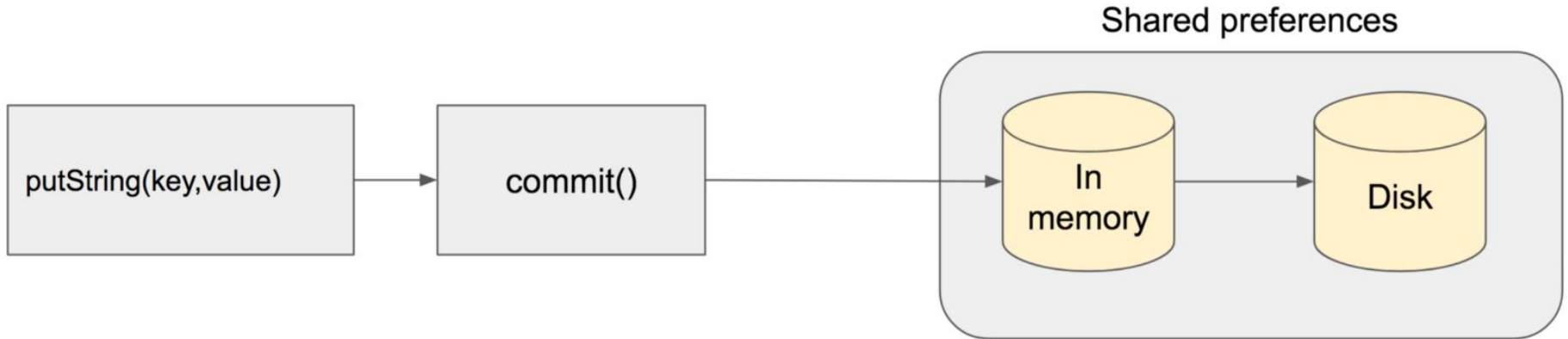
GITHUB

2.3

MINIMUM
ANDROID

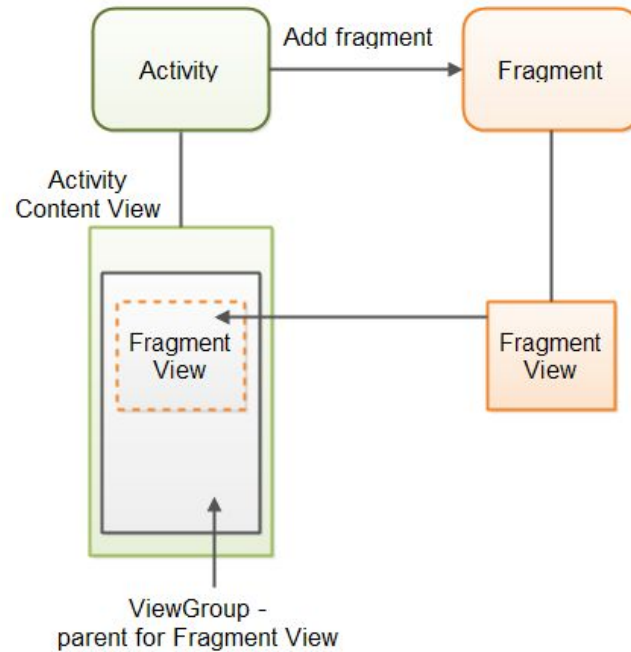
SharedPreferences

Android concepts



Activity != Fragment

Android concepts



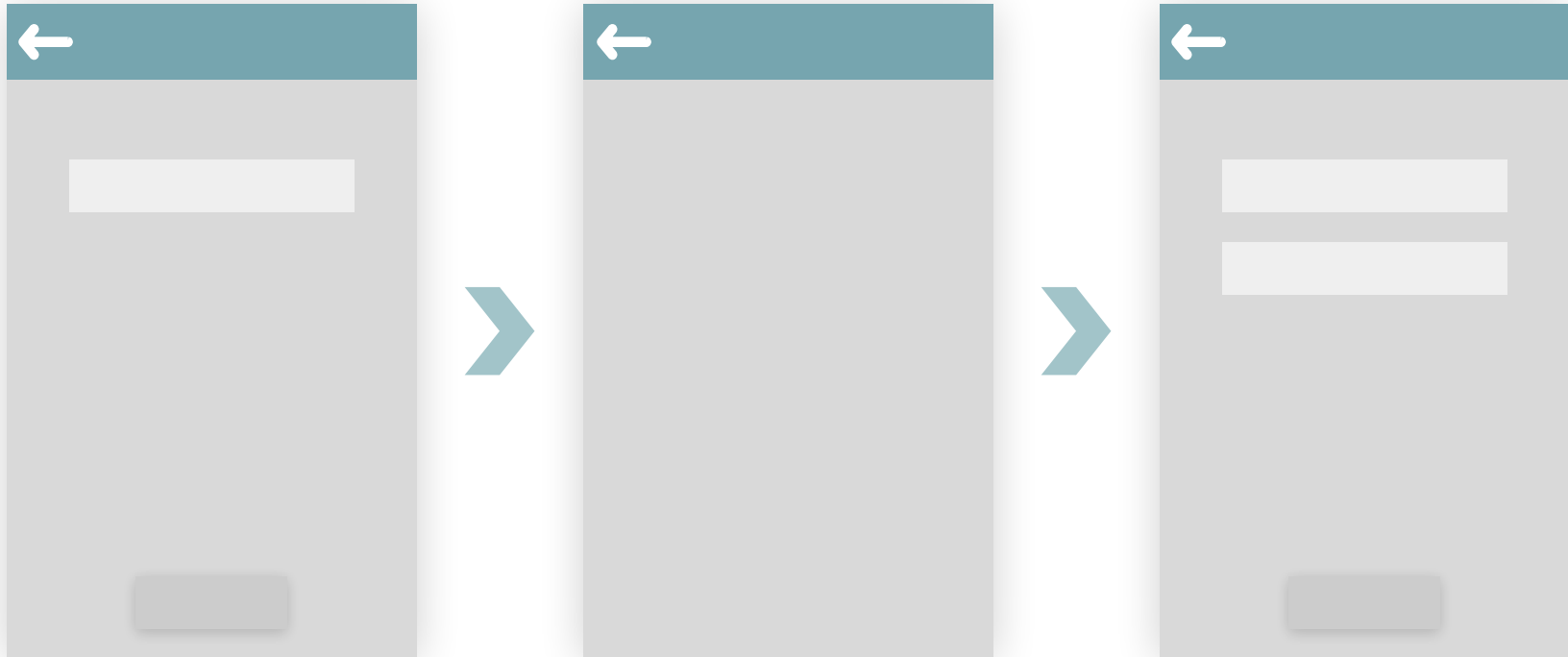
Simple Android App

Plain and simple



Simple Android App

Plain and simple





Demo

With more code than it should

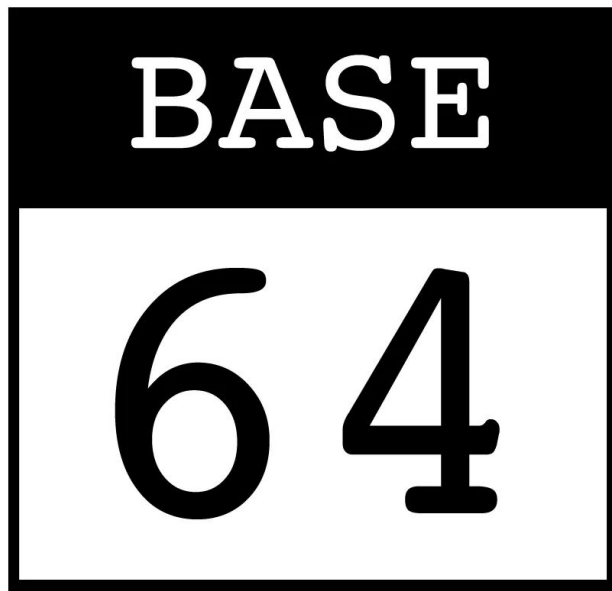


Small details

To consider

Base 64

Android version



Base 64

Android version



Useful Links

Last but not least

<https://www.drupal.org/docs/8/core/modules/rest>

<https://www.drupal.org/project/restui>

<https://belitsoft.com/apps-development-services/responsive-website-vs-mobile-app>

<https://github.com/yongt9412/Drupidroid>



I would like to thank to
MD Systems for all their support.



Thank you

Q&A