Apps with love

Bachelor Project

Presentation J – Introduction, Situation, Goals & Method

1. October 2019

Alain Stulz / 2019

Company Introduction

Full Service Digital Agency



Company Introduction

Founded: **2010**

Offices: Bern & Basel

Employees: 35

Nearshore & Freelance: **50+**

App Store Uploads: 200+

Where We Began

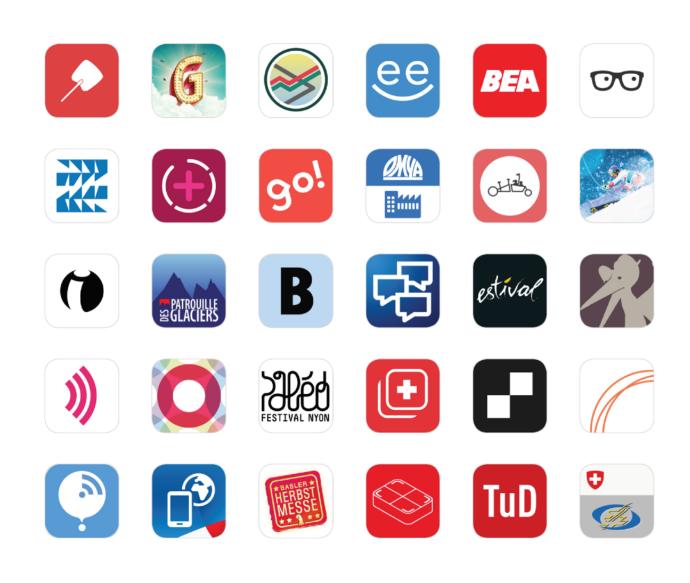
"Festival Buddy"





How To Create Many Apps Efficiently?

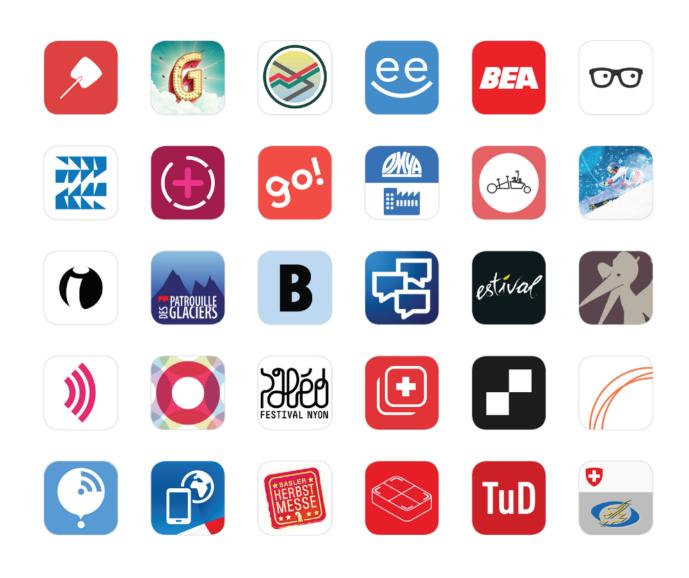
Reuse Code



How To Create Many Apps Efficiently?

Reuse Code

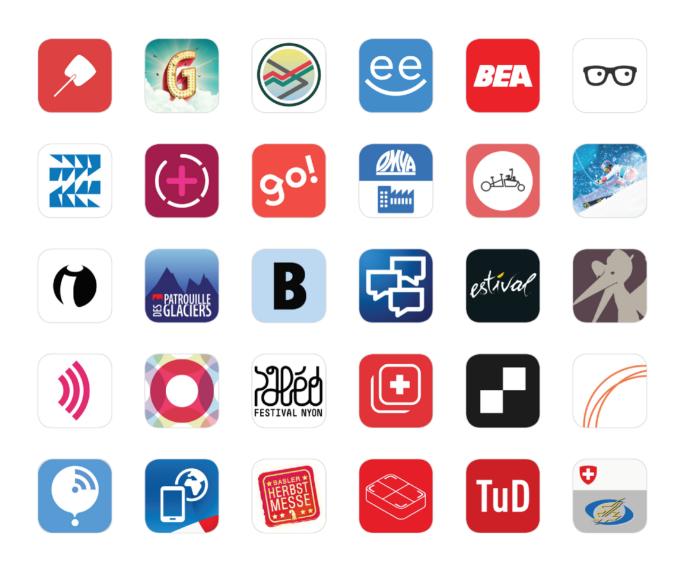
• Copy & Paste



How To Create Many Apps Efficiently?

Reuse Code

- Copy & Paste
- Custom Framework



More Features!

POIs

Geofencing

Analytics

Video Gallery

Push

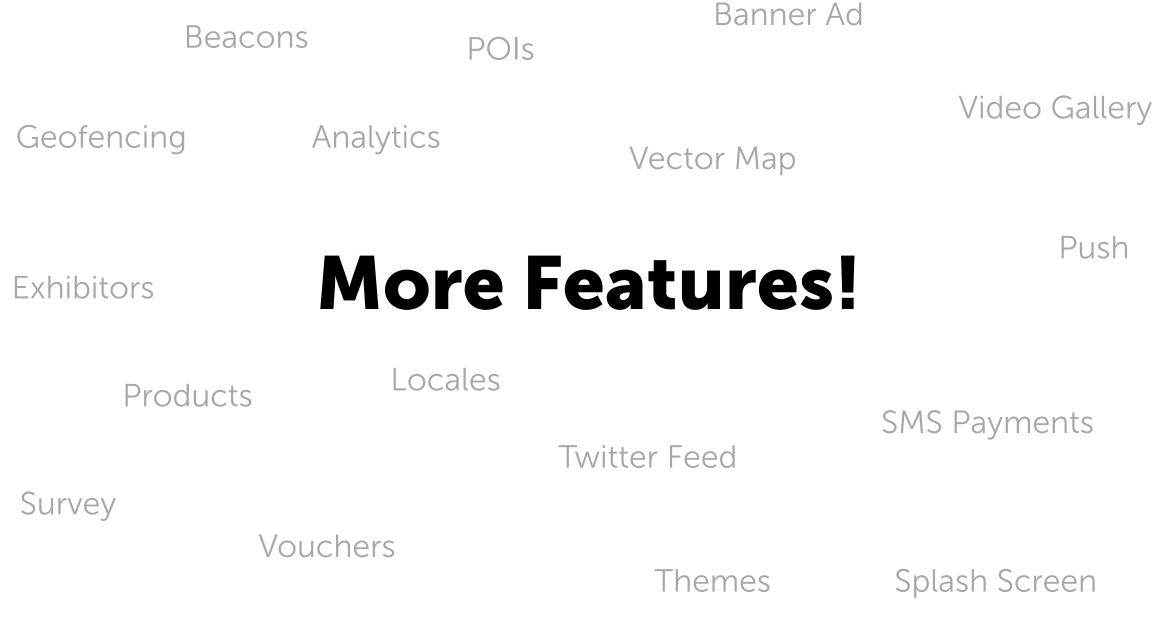
More Features!

Locales

Twitter Feed

Survey

Splash Screen



No Time Left!

More Features + No Time Left

Technical Debt

Technical Debt

Who Needs **Unit Tests,** Anyway?

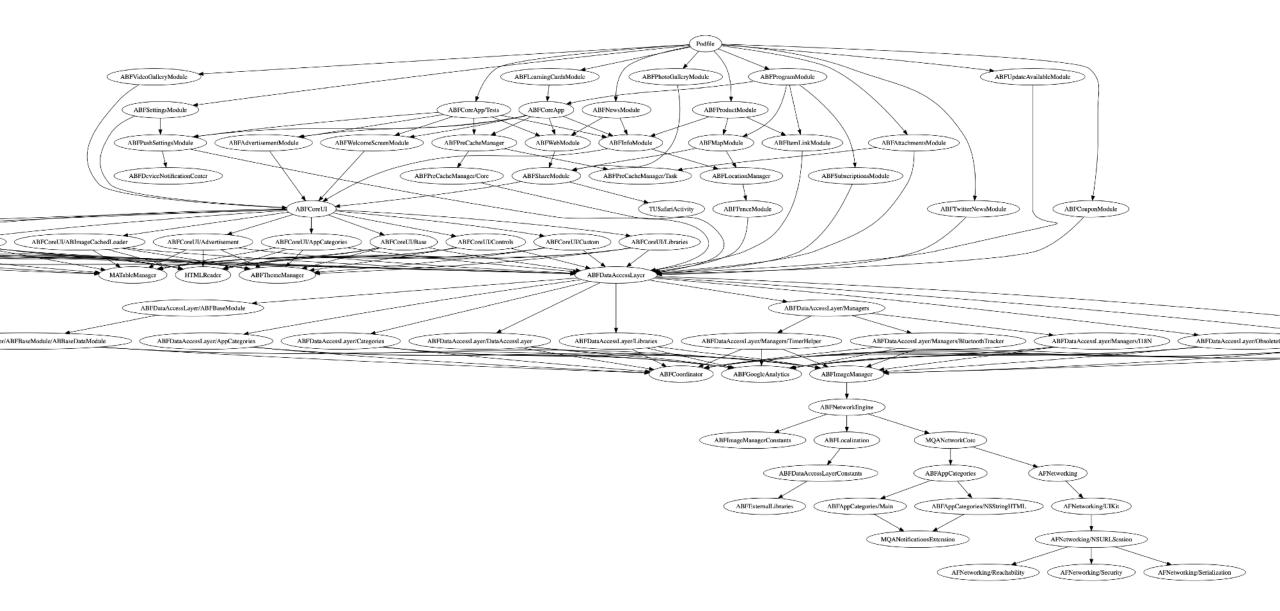
Name	Coverage ~
AFNetworking.framework	1.6%
ABFCoreApp.framework	0.5%
ABFCoreUI.framework	0.5%
ABFDataAccessLayer.framework	0.2%
ABFInfoModule.framework	0.0%
ABFPhotoGalleryModule.framework	0.0%
ABFProgramModule.bundle	0.0%
HTMLReader.framework	0.0%
🕨 🚔 MATableManager.framework	0.0%
ABFDataAccessLayer.bundle	0.0%
ABFLocalization.framework	0.0%
ABFAdvertisementModule.framework	0.0%
ABFNewsModule.framework	0.0%
ABFVideoGalleryModule.bundle	0.0%
ABFCouponModule.framework	0.0%
ABFMapModule.framework	0.0%
ABFAttachmentsModule.bundle	0.0%
ABFProductModule.bundle	0.0%
ABFTwitterNewsModule.framework	0.0%
ABFVideoGalleryModule.framework	0.0%
ABECoordinator framoundu	0.00/

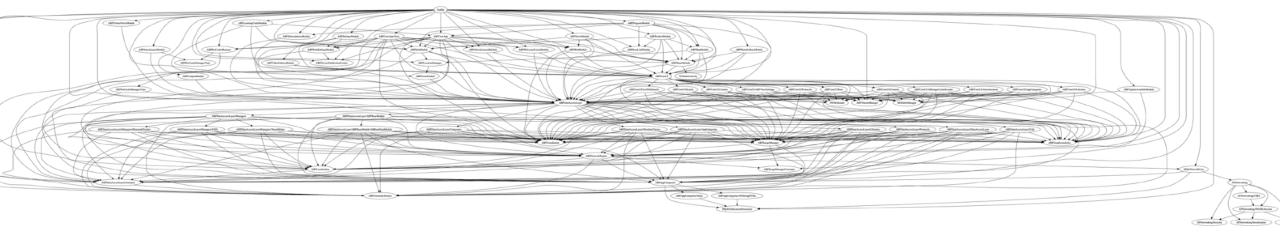
Guessing Game: What does Util do?

```
ABFDataAccessLayer > Utils > Util.h > No Selection
盟
      11
   1
   2 // Util.h
   3 // OvoApp
   4 //
   5 // Created by Olivier Oswald on 08.11.10.
   6 // Copyright 2010 Apps with love. All rights reserved.
   7 //
   8
     #import <Foundation/Foundation.h>
   9
      #import <MessageUI/MFMailComposeViewController.h>
  10
  11
     @interface Util : NSObject
  12
  13
```

🔡 < 🔰 Pods 🔪 Development Pods 👌 Marca AccessLayer 🔪 Utils 👌 🖥 Util.h 👌 No Selection

```
1 //
2 // Util.h
3 // OvoApp
4 //
5 // Created by Olivier Oswald on 08.11.10.
6 // Copyright 2010 Apps with love. All rights reserved.
7 //
8
9 #import <Foundation/Foundation.h>
10 #import <MessageUI/MFMailComposeViewController.h>
11
12 @interface Util : NSObject
13
14 + (NSString*)trimString:(NSString*)string;
15
16 + (NSDate*)dateWithDay:(NSInteger)day withMonth:(NSInteger)month withYear:(NSInteger)year;
17 + (NSDate*)dateWithDay:(NSInteger)day withMonth:(NSInteger)month withYear:(NSInteger)year
                 withHour:(NSInteger)hour withMinute:(NSInteger)minute withSecond:(NSInteger)seconds;
18
19
20 + (NSString *)abfMessageForError:(NSError *)error;
21 + (void)abfShowAlertForError:(NSError *)error;
22 + (void)alertWithTitle:(NSString*)title withText:(NSString*)text;
23 + (void)errorAlertWithText:(NSString*)text;
24 + (void)unexpectedErrorAlert;
25
26 + (bool)isValidEMailAddress:(NSString*)email;
27 + (void)sendEmailMessageTo:(NSArray *)recipients subject:(NSString *)subject text:(NSString*)text image:(UIImage *)image
       mailComposeDelegate:(id<MFMailComposeViewControllerDelegate>)mailComposeDelegate;
28 + (NSString *)stripHTML:(NSString *)html;
29 + (NSString *)localizeHTML:(NSString *)html;
30
31 + (BOOL)date:(NSDate*)date isBetweenDate:(NSDate*)beginDate andDate:(NSDate*)endDate;
32
33
34 #pragma mark --- 2014
35
36 + (NSString *)stringWithDate:(NSDate *)date dateFormat:(NSString *)dateFormat;
37
38 + (NSString *)createTextFromDate:(NSDate *)date;
39
40 + (NSString *)convertNumberOfLikesToText:(NSInteger)numberOfLikes;
41 @end
42
```

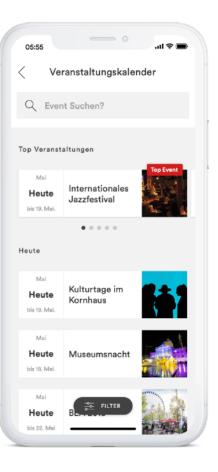




Where We Are Today

Bern Welcome







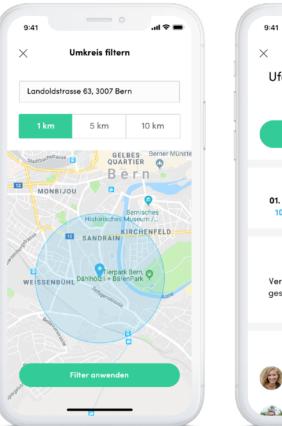
Patrouille des Glaciers

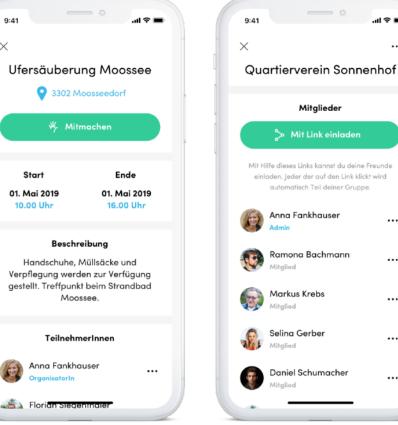






Five up





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Where We Want To Go

Goals

- Improve code quality
- Make (changing) code safer
- Increase developer efficiency

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- Improve code quality
- Make (changing) code safer
- Increase developer efficiency

Tools

- Metrics
- Automated Tests
- Documentation

How We Want To Do It

- 1. Preparation
- 2. Execution
- 3. Conclusion

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- 2. Execution
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- Analysis
 - Overview of state and usage
- Scope
 - Identify core features
- Metrics
 - Define and capture quality

- 1. Preparation
- 2. Execution
- 3. Conclusion

Setup

- Fork, prepare systems
- Prioritization
 - Set a strategy
- Development
 - Select, refactor, cover, repeat

- 1. Preparation
- 2. Execution
- 3. Conclusion

- Results
 - Revisit metrics and goals
- Documentation
 - Document and reflect
- Future
 - Workflows, roadmap

Summary

Problem

Technical Debt, hard to make changes

Solution

Improve existing code base through refactoring

Goal

Easier to work on code and make further improvements

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