Firebase

Crash reporting & Remote config

Who Am I

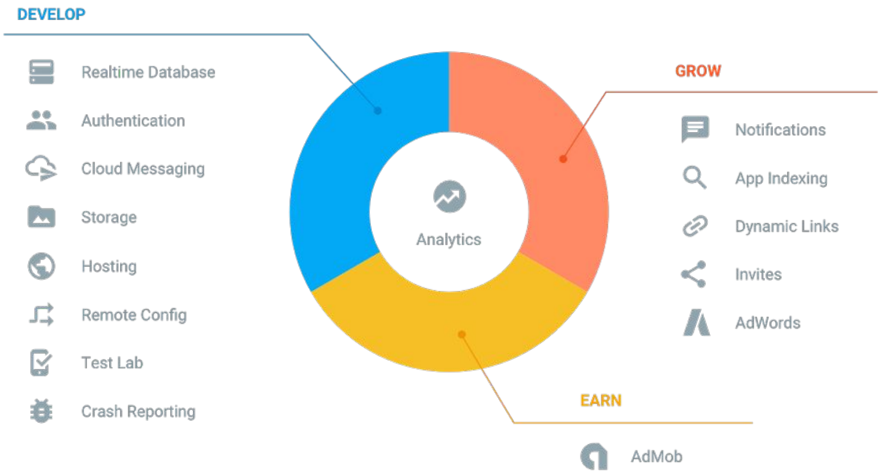
- Android Developer
- Work @Karify
- Technical part of bettyskitchen.nl

karify®
connecting care

Firebase

Platform as a service for unified app development.

Lots of different services



Crash reporting

- Crashlytics by Fabric/Twitter
- HockeyApp by Microsoft
- New Relic MOBILE by New Relic ofcourse
- Flurry Crash Analytics by Yahoo ← are the still alive?

Crash reporting

Easy to set up only 6 steps

1. Create Firebase project
2. Enable crash reporting service
3. Download and add google-services.json to your app module
4. Add classpath 'com.google.gms:google-services:3.0.0' to your root build.gradle
5. Add compile 'com.google.firebase:firebase-crash:9.0.2' to your dependencies
6. Apply plugin: 'com.google.gms.google-services' in build.gradle

And your done.

Crash reporting

Console

```
FirebaseCrash.log("log message"); // no logcat output
FirebaseCrash.logcat(loglevel, “TAG”, “log message”) // logcat output
FirebaseCrash.report(exception); // log non fatal exceptions
```

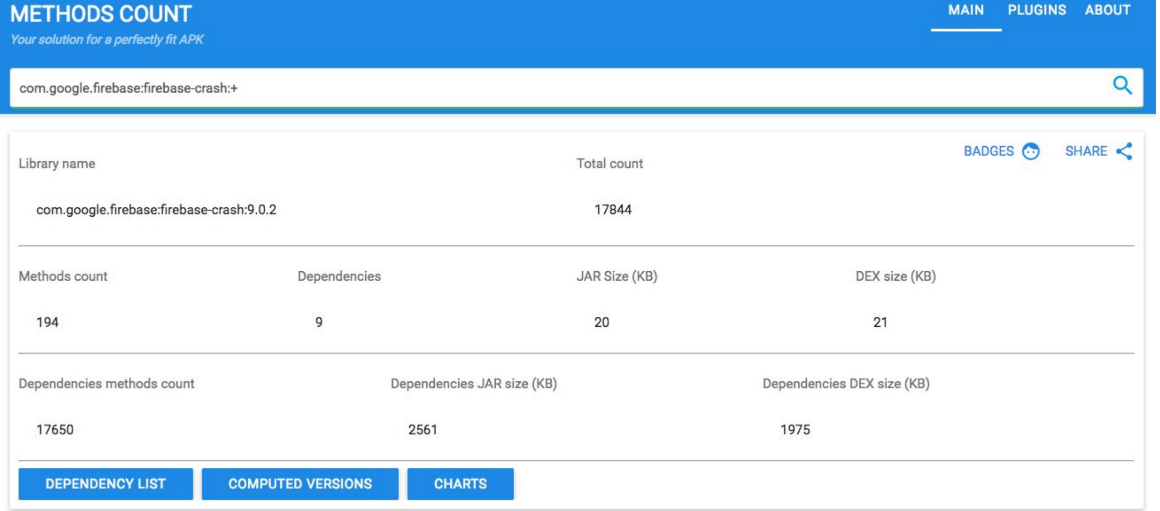
Crash reporting

Advantages

- Made by Google
- Integrate well with other firebase services.
- Easy to use.
- Clean and minimalistic UI

Disadvantages

- Manually upload mapping file
- Doesn’t work with multi process apps
- Not real-time
- Not able to mark crashes as resolved
- No integration with issue trackers.
- Not able to disable crash reporting



com.google.firebase:firebase-crash:+

Library name: com.google.firebase:firebase-crash:9.0.2

Total count: 17844

Methods count: 194

Dependencies: 9

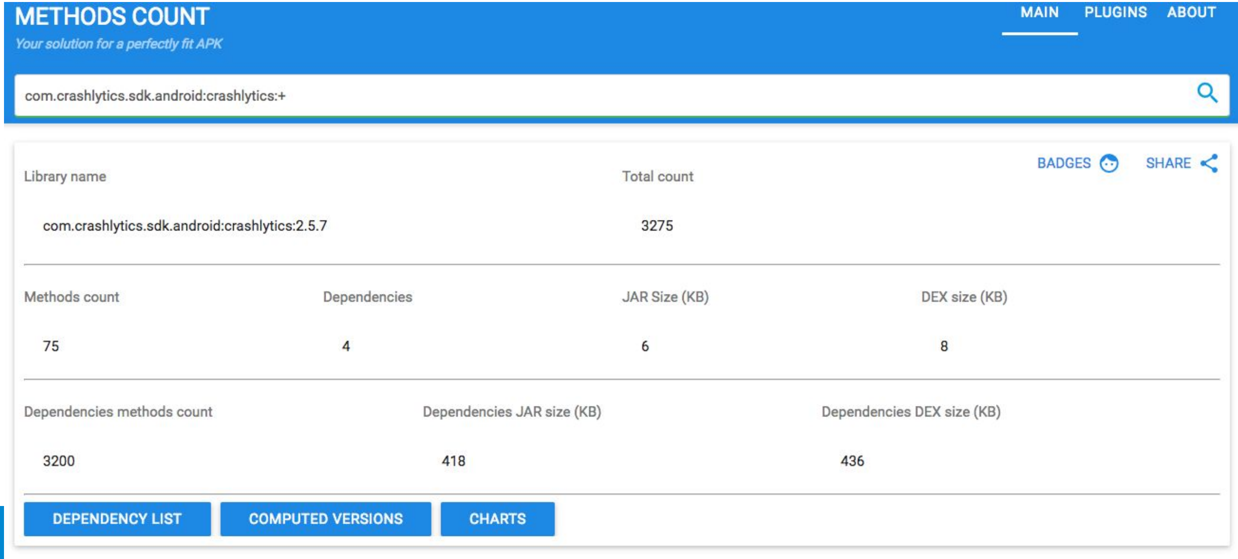
JAR Size (KB): 20

DEX size (KB): 21

Dependencies methods count: 17650

Dependencies JAR size (KB): 2561

Dependencies DEX size (KB): 1975



com.crashlytics.sdk.android:crashlytics:+

Library name: com.crashlytics.sdk.android:crashlytics:2.5.7

Total count: 3275

Methods count: 75

Dependencies: 4

JAR Size (KB): 6

DEX size (KB): 8

Dependencies methods count: 3200

Dependencies JAR size (KB): 418

Dependencies DEX size (KB): 436

Remote config

Change the behavior and appearance of your app without publishing an app update.

Remote config

Easy to set up only 6 steps

1. Create Firebase project
2. Enable remote config service
3. Download and add google-services.json to your app module
4. Add classpath 'com.google.gms:google-services:3.0.0' to your root build.gradle
5. Add compile 'com.google.firebase:firebase-config:9.0.2' to your dependencies
6. Apply plugin: 'com.google.gms.google-services' in build.gradle

And your done. Now we have start writing code

Remote config

```
if (!FirebaseApp.getApps(this).isEmpty()) {
    firebaseRemoteConfig = FirebaseRemoteConfig.getInstance();
    FirebaseRemoteConfigSettings configSettings = new FirebaseRemoteConfigSettings.Builder()
            .setDeveloperModeEnabled(BuildConfig.DEBUG)
            .build();
    firebaseRemoteConfig.setConfigSettings(configSettings);
    firebaseRemoteConfig.setDefaults(R.xml.remote_config_defaults);
}
```

Remote config

Remote_config_defaults.xml

```
<defaultsMap>
  <entry>
    <key>default_text</key>
    <value>default sample text</value>
  </entry>
  <entry>
    <key>default_boolean</key>
    <value>false</value>
  </entry>
</defaultsMap>
```

Remote Config

```
firebaseRemoteConfig.getString(key)
firebaseRemoteConfig.getBoolean(key)
firebaseRemoteConfig.getLong(key)
firebaseRemoteConfig.getDouble(key)
firebaseRemoteConfig.getByteArray(key)
```

Remote config

```
firebaseRemoteConfig.fetch(REMOTE_CONFIG_CACHE_EXPIRATION).addOnCompleteListener(new
OnCompleteListener<Void>() {
   @Override
   public void onComplete(@NonNull Task<Void> task) {
       if (task.isSuccessful()) {
           firebaseRemoteConfig.activateFetched();
       } else {
              FirebaseCrash.logcat(Log.INFO, "TAG?", errorMsg);
       }
       // Do stuff here
   }
});
```

Remote config

Console

Remote config

Missing features:

- Generate xml from firebase console

Questions????

- Sample App XtendedXtended
- crash reporting docs
- remote config docs
- Medium: Firebase Crash Reporting VS Crashlytics