



Tracking Bugs in Android Applications

When an Android application crashes, the user is generally shown a pop-up that asks to send a crash report to the app developers. However, nobody ever clicks on report because nobody has time. They all just want the pop-up to go away and go back to whatever they were doing.

This is a problem because developers need to know how their app performs on all different devices. To fix that, a group of Swiss developers created a software bundle called ACRA which is able to send instantaneous crash reports that take place in the background, without bothering or prompting the user. Developers who wish to use ACRA only need to install a backend web application that listens for and later stores the incoming crash logs.

This system works well, but there are no smart open source analysis tools. So far, most tools simply drop the stack traces into a database and offer only a few filter criteria like date, application version or device. There is currently no tool that looks into the content of these error messages and therefore allows for contextual grouping of the different errors.

The goal of this thesis is to create a user friendly web application backend that collects Android stack traces and is able to find and group bugs across different application versions and device models.



Interested? Please contact us for more details!

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