



# Aptoide 2017 Summer Internship

Weekly report 6: Aug 14 - Aug 18

**Project:** Translations on demand

**Intern:** Válter Santos

**Coordinator:** Ana Lara Simões

**Co-Coordinator:** Diogo Loureiro

## Completed tasks:

- Implemented the XMLBlock solution which uses reflection and modifies the binary xml files at runtime. In terms of performance, this takes nearly the same time as the default application, so it's a very good solution. (when reading the strings from memory).

- Added loading strings from the database to memory. While this isn't complete, the strings are read from the database. When the transfer is complete, the strings start being read from memory. There's an odd bug with this as when the strings are downloaded, the app doesn't display them until restarted. I implemented this today (Friday) but I already had this kind of issue before in a previous solution so I should be able to find the fix quickly.

Overall, the project is nearly complete. My suggestion would be to hide the initial download screen behind the wizard fragment so there's no initial delay for the user when starting the app for the first time.

There's a small nuance with strings that are in styles (two strings), which I believe the only way to translate them is to modify manually the buttons inside the Java code. As this is a minimal case, it was agreed that those two strings translations (connect to facebook and connect to google) would be inside the APK.

There's also a bug that has reappeared for the second time which causes the strings html styles (bold, underscore, italic) not to appear with said html styles, although this is probably due to how I'm inserting them inside the binary xml in runtime. Should also be a quick fix.

When I'm sure the project is complete, I'll proceed to investigate Proguard in order to reduce APK size.

Next week:

- Fix download and transfer DB to Memory bug;
- Fix HTML bug;
- Hide first download behind wizard?
- Investigate ProGuard.