



# Aptoide 2017 Summer Internship

Weekly report 4: Jun 31 - Aug 04

**Project:** Translations on demand

**Intern:** Válter Santos

**Coordinator:** Ana Lara Simões

**Co-Coordinator:** Diogo Loureiro

## Completed tasks:

- Downloaded translations to a file and made the app successfully display the correct strings (parsed the file to a SparseArray on startup, then accessed said SparseArray to obtain the string). This always took around 300-400 ms on a normal xml. Although this parsing time can be reduced, it will always take time.
- Instead of using a file, now it's using the implemented database. This way the file isn't parsed on startup, changing added startup time from 300 to nearly 0, as when the translations are downloaded, they're automatically inserted in the database. Next week I'll benchmark the creation time for each view when accessing the database and when accessing the in-memory SparseArray to compare times.
- Added array translations;
- Fixed strings with HTML tags (used to show the tags themselves, now shows the correct form. Example: used to appear `<b> Example </b>`, now shows **Example**);
- Improved code structure;
- Added a loading screen when downloading.

Next week:

- Continue fixing special cases:
  - Connect to Facebook / Connect to Google buttons;
  - Preferences (under settings menu on the application);
  - There's an odd case where when accessing the account login, it's displayed correctly translated, however when attempting to buy an app, the same account login now shows some default strings instead of the translated ones;
- Try to implement a better way to translate menus (will attempt to create a custom menu which wraps a normal menu);
- Check if it's possible to add new translations in runtime.