



Aptoide 2017 Summer Internship

Weekly report 2: Jun 17 - Jun 21

Project: Translations on demand

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Completed tasks:

- Completed research about whether it's possible to change the text of a TextView when it's being created (it's not).

- Initial presentation

- Working prototype (without fragments) :

The main activity overrides the method getResources, which returns a custom resources object.

When this method is called, the custom resources constructor checks if the user's language translation file (strings-xx.xml, where xx is the language) exists. If it doesn't, then it downloads from a site (hardcoded link) and obtains the file.

Using android's XmlPullParser, it parses each string and gets two values, the string name and the string value.

Using the string name, a method (getIdentifier) is called to obtain the corresponding ID and then it saves on a SparseArray the ID and string value on the custom resources object.

After a view is created, its text is set using view.setText(getString(R.id.<*string id*>)). This calls the custom resources which overrides the getString method and checks whether the SparseArray has the Id. If it does, then it returns the corresponding value, otherwise it calls the super method and returns the default value.

Note: If the user's translation does not exist, then the sparseArray will be empty and every getString will return the default value.

Next week:

- Add a fragment to the working prototype;
- Start working on aptoide's codebase based on prototype;
- Possibly work on ProGuard.