GIRAF

sw605f15, Aalborg University

23. Juni 2015

Contents

1. GIRAF
   - GIRAF Overview
2. Product Owner
   - User stories
   - Backlog
3. Google Play and Analytics
   - Google Play
   - Google Analytics
   - Renaming
4. Build Structure
   - Dependencies
   - Solution
   - Change
5. StandAlone
   - Package solution
6. Conclusion
   - Conclusion
7. Recommendation and reflexion
   - Recommendation and reflexion

GIRAF Project

Multiproject

Goals for the semester

- *A product that actually works and can be used* - 10/02-15
- To build upon existing features
- Quality over quantity

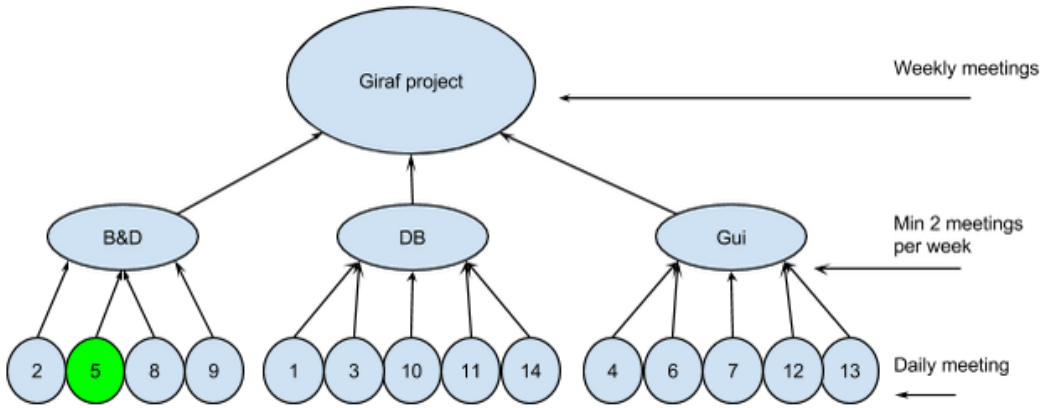
Roles and responsibility

- Redmine Wiki, Forum, general
- Server
- Webadmin
- Graphics
- Customer Relations
- Git
- Issue Tracker
- Android Guru
- code style
- Jenkins
- Scrum Process
- **Google Play**
- **Google Analytics**
- **Product Owners**

Project Struture

Scrum of Scrums

- 1 Scrum Lord
- 3 Subprojects
- 15 groups
- 52 students



Redmine

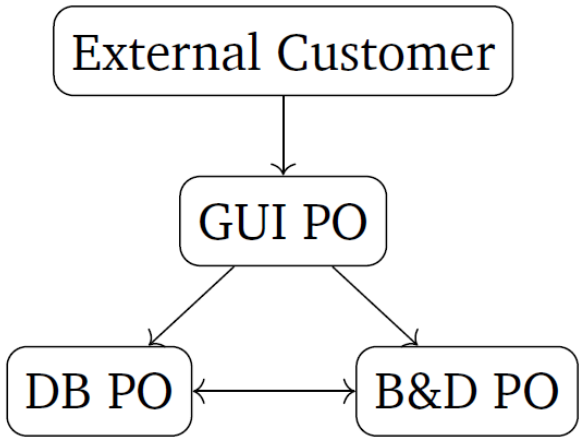
Tasks

Filters
Status open
Add filter
Options
Apply Clear Save

#	Tracker	Status	Priority	Subject	Assignee	Estimated time
2022	Developer Story	New	Normal	Translation of strings	sw607f15	
2021	Developer Story	New	Normal	Test the Piktotegner app	sw607f15	
2020	User story	New	Normal	Implement help button	sw607f15	
2019	Developer Story	New	Normal	Ensure that Piktocreator app doesn't use any GComponenets	sw607f15	
2018	User story	New	High	Print a pictogram in Pictocreator app	sw607f15	
2017	Developer Story	New	High	Save pictograms in Pictocreator	sw607f15	
2016	User story	New	High	Eraser tool in Pictocreator	sw607f15	
2015	Task	New	Normal	DB-lib test correctness	sw601f15	
2008	User story	In Progress	Normal	Progressbars (loading indicator)	sw604f15	
2003	User story	In Progress	Normal	As a GUI developer i would like to be able to get information of the status when doing larger queries, so that it can be used to notify a user of the app.	sw601f15	
2002	User story	New	Normal	Track progress in the schedule.	sw612f15	
2000	Developer Story	New	Normal	Adapt Piktotegner app to new GirafComponents	sw607f15	
1999	User story	New	Normal	Pictogram text in the Piktotegner app	sw607f15	

Responsibilities

- User stories
  - Product Backlog
  - Release Backlog
- Sprint Planning
- Sprint End
- Communicate with other PO-groups



User stories

- User/Dev Story **(Priority (1-5)) [GroupNumber]**
  - Description of the user story
    - Additional Info

Structural Changes

- Ensure App Name consistency **(1) [5]**
  - As a developer I would like all the references to an app and library to use the same name so that it is easier to follow and understand which apps are referenced when reading a name. All names on git, jenkins, and google play should be consistent.
    - Rename git and artifactory
- Make PictoSearch a Library **(2) [5]**
  - As a customer I would like PictoSearch to be a Library so that i don't have to download it separately from other apps.
- Replace Redmine with another tool **(4) [-]**
  - As a developer I would want to use another tool instead of Redmine so that i could get a more reliable organization tool.
    - The handling of user stories is clumsy in function and not in use by a majority of users. Migration to a better platform may lead to more usage among the project groups on their own accord.

Backlog

Product Backlog

Build Release

These user stories should be related to the build release of GIRAF.

78. **Make a package for download on Google Play**
    As a customer I would like to have a package available on Google Play that would allow me to download just one thing that would install all needed parts for the Giraf-project, so I do not have to download them all individually.

Release Backlog

33. **Ensure App Name Consistency**
    As a developer I would like all the references to an app and library to use the same name so that it is easier to follow and understand which apps are referenced when reading a name. All names on git, jenkins, and google play should be consistent.
34. **Make Pictosearch a Library**
    As a customer I would like PictoSearch to be a Library so that i don't have to download it separately from other apps.

Google Play

Releasing the apps

1st and 2nd sprint

- Manual releases
- Was troublesome

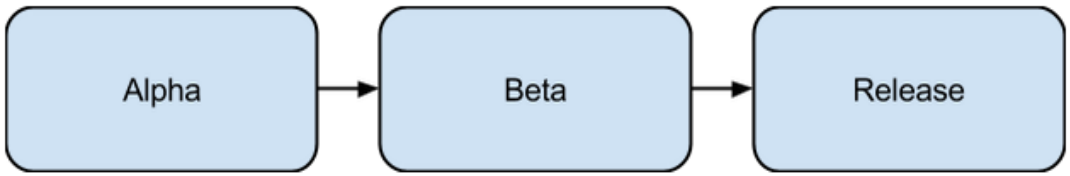
3rd and 4th sprint

- Automated upload
- Versions always tested

Release versions

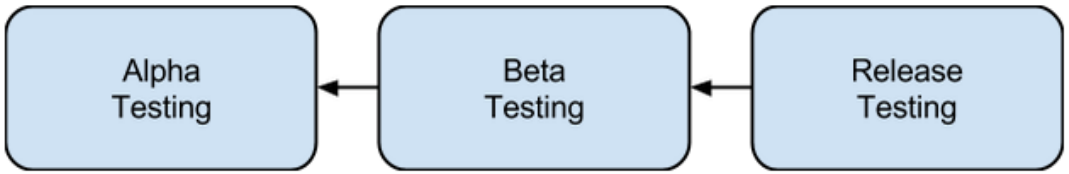
Versions on Google Play

- Access to versions



Testing access

Who have access to what



Google Analytics

Google Analytics

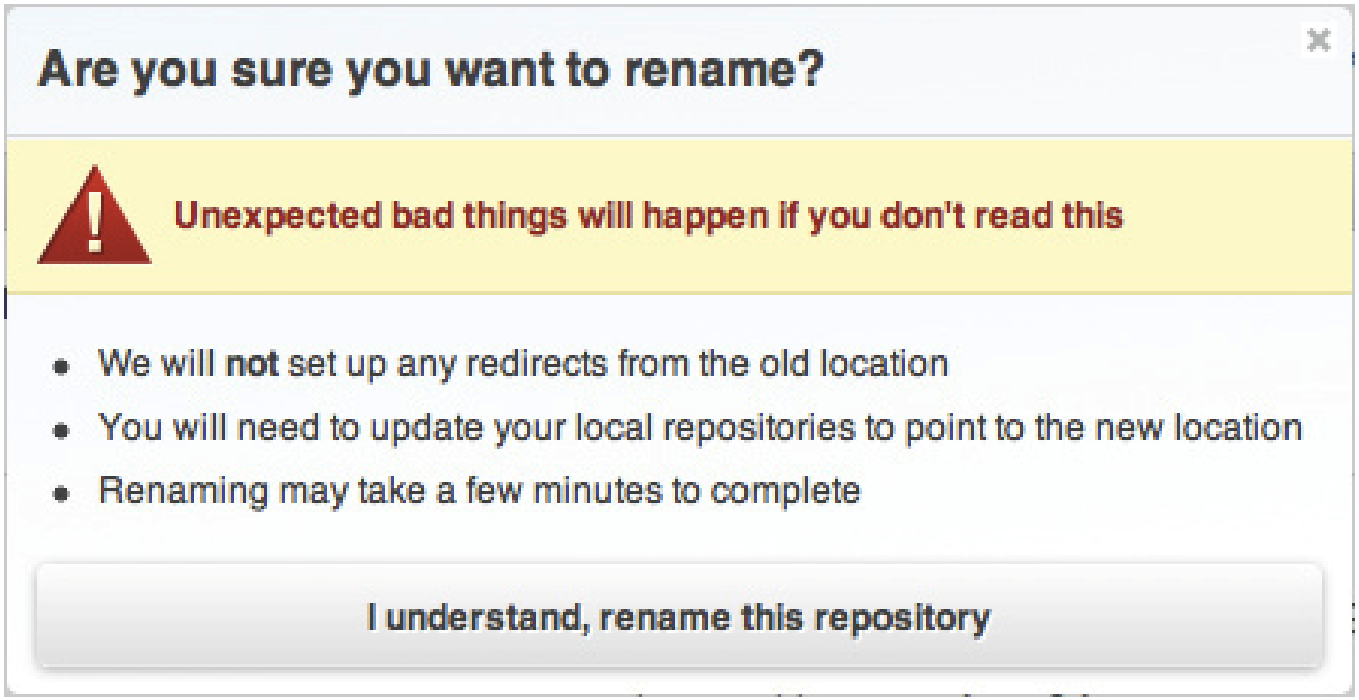
What it does

- Crash reports
- Statistics

How we used it

- Transitioned away from it
- Jenkins helped

Renaming of Package-names



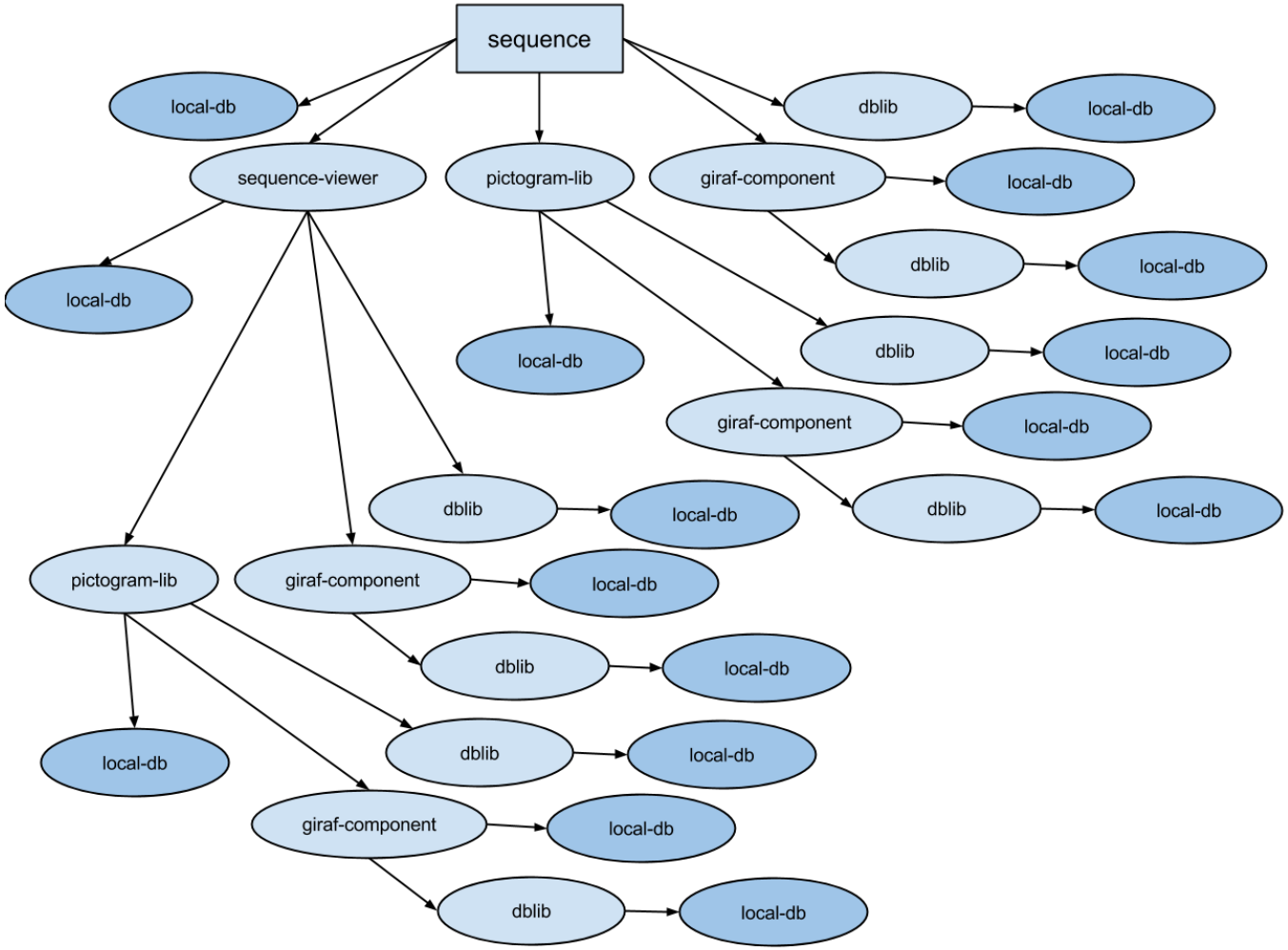
Renaming process

Old app package-names	New app package-names
launcher	launcher
train	categorygame
pictoadmin	categorymanager
tortoise	lifestory
oasis	administration
parrot	pictoreader
pictosearch	pictosearch
pictocreator	pictocreator
zebra	sequence
cars	voicegame
wombat	timer
schedulestarter	ugeplan

Dependencies

As a developer I would like to know which apps and libraries that are dependent on each other, so that I know which libraries to include in my app when coding.

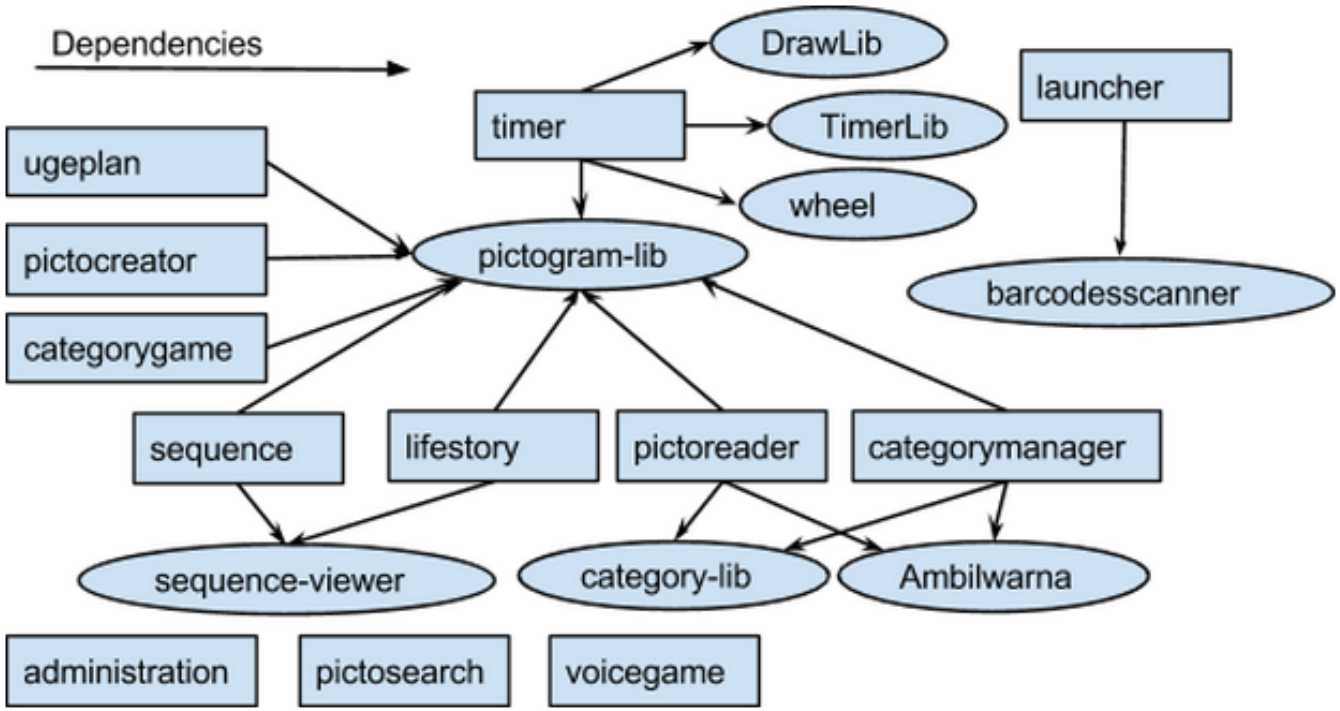
Recursion


sequence
local-db
dblib
local-db
sequence-viewer
pictogram-lib
giraf-component
local-db
dblib
local-db
local-db
local-db
dblib
local-db
giraf-component
local-db
dblib
local-db
dblib
local-db
pictogram-lib
giraf-component
local-db
dblib
local-db
local-db
dblib
local-db
giraf-component
local-db
dblib
local-db

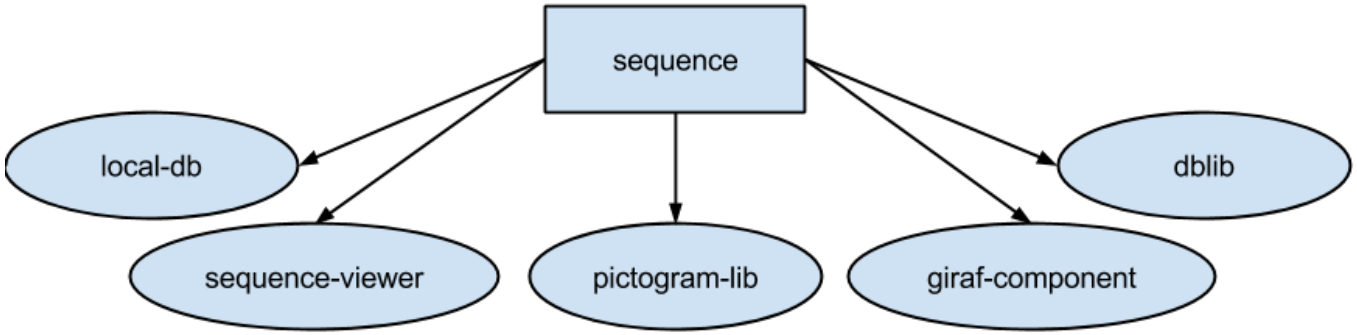
Metadata

- Recursively
- Manuel Copy paste
- Library (.jar)

Squenceviewer & Pictosearch



Libraries


sequence
local-db
dblib
sequence-viewer
pictogram-lib
giraf-component

Version control

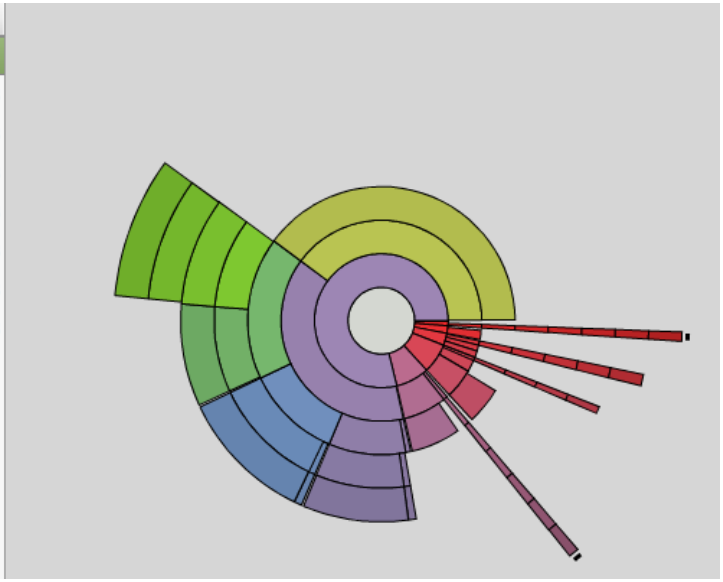
compileproject(′: *local* − *db*′)
compile(*group* :′ *dk*.*aau*.*cs*.*giraf*′, *name* :′ *localDb*′, *version* :′ 5.1.4′, *ext* :′ *aar*′)

Remove App dependencies

- Make Apps into libraries
- Standalone

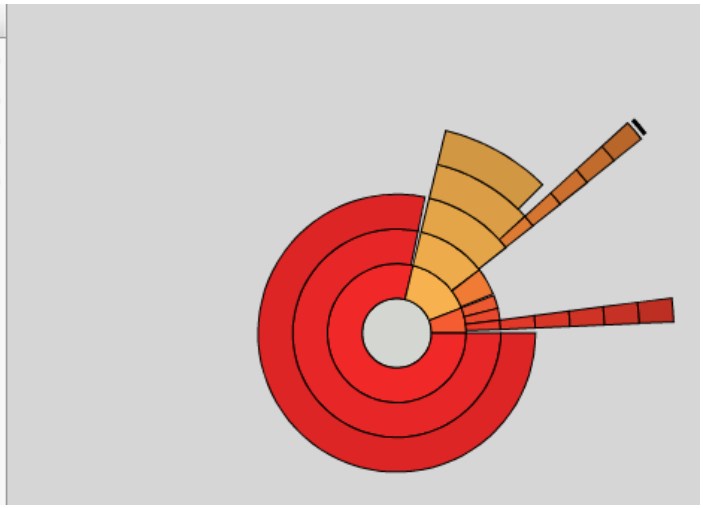
Old buildstructure

Folder	Contents	Size
launcher	1472 items	51.2 MB
metadata	43 items	176.1 kB
OasisLib	146 items	774.1 kB
local-db	80 items	1.1 MB
barcodescanner	199 items	1.8 MB
launcher-app	204 items	3.8 MB
GIRAF_Components	471 items	5.0 MB
.git	319 items	38.5 MB



New buildstructure

Folder	Contents	Size	Usage
launcher	483 items	25.3 MB	100.0 %
.git	39 items	19.3 MB	78.8 %
launcher-app	234 items	4.1 MB	15.3 %
barcodescanner	199 items	1.8 MB	5.8 %

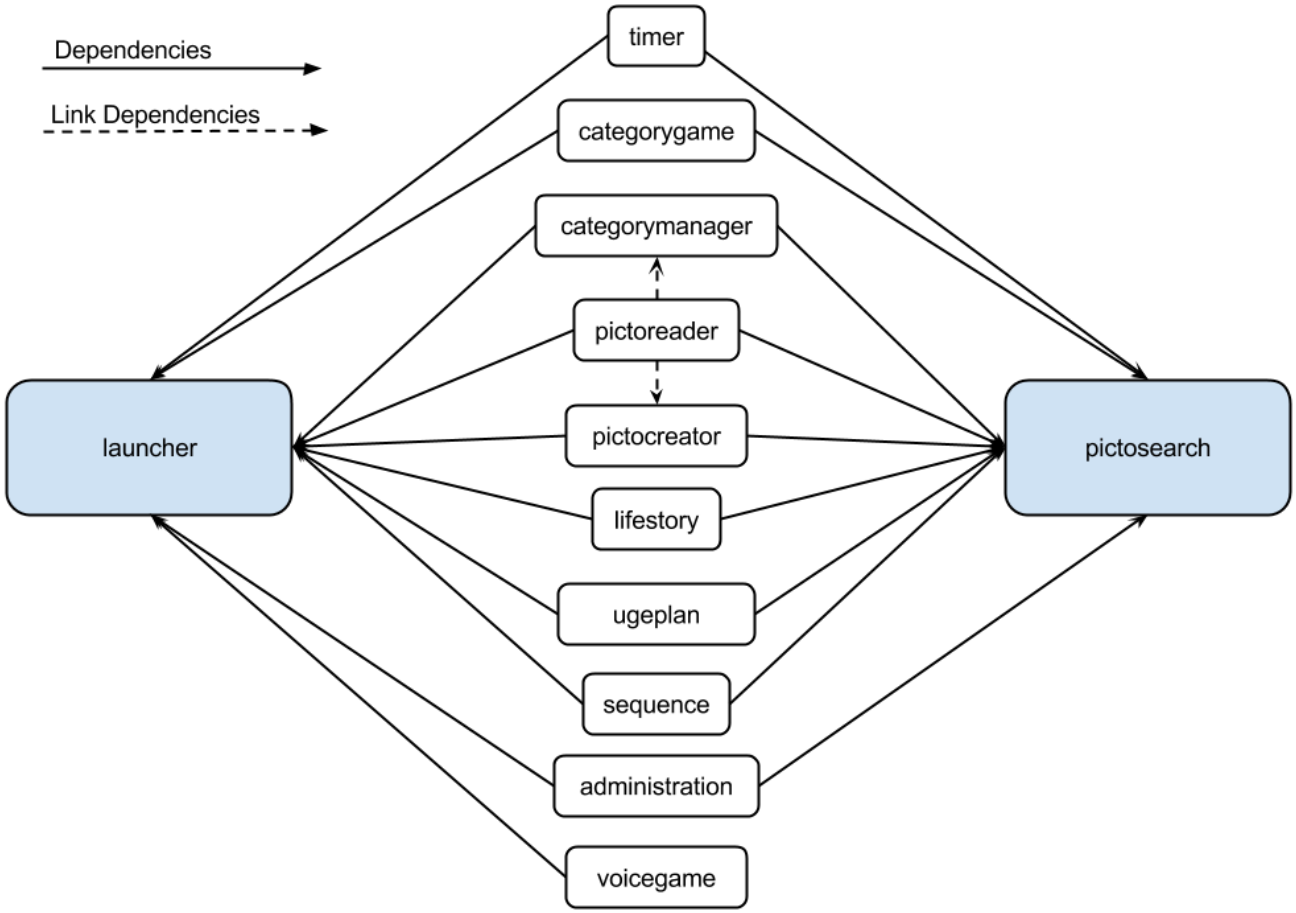


stats

- Size went from 51.2 MB to 25.3 MB
- Contents went from 1472 items to 483 items
- Buildtime went from $\tilde{3}0$ min to $\tilde{1}0$ min.

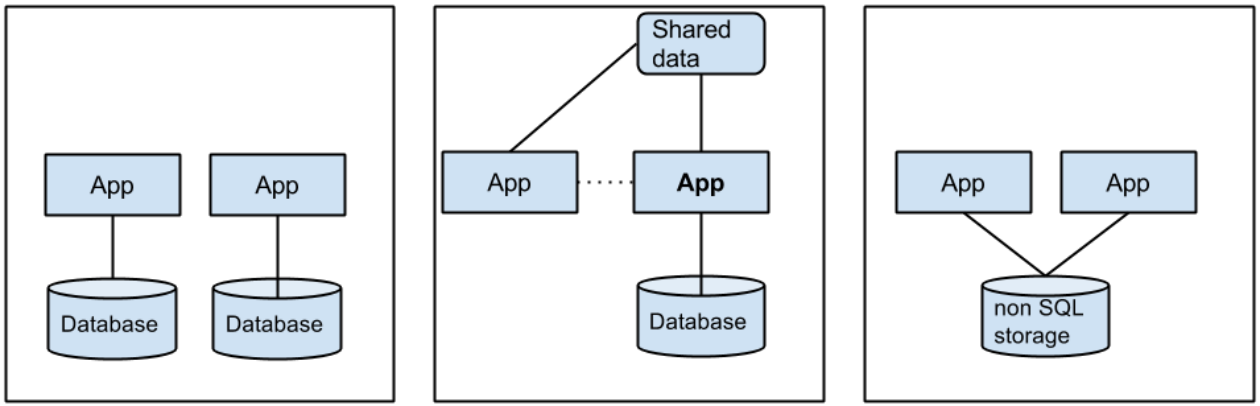
Note: more functions in the new.

Motivation



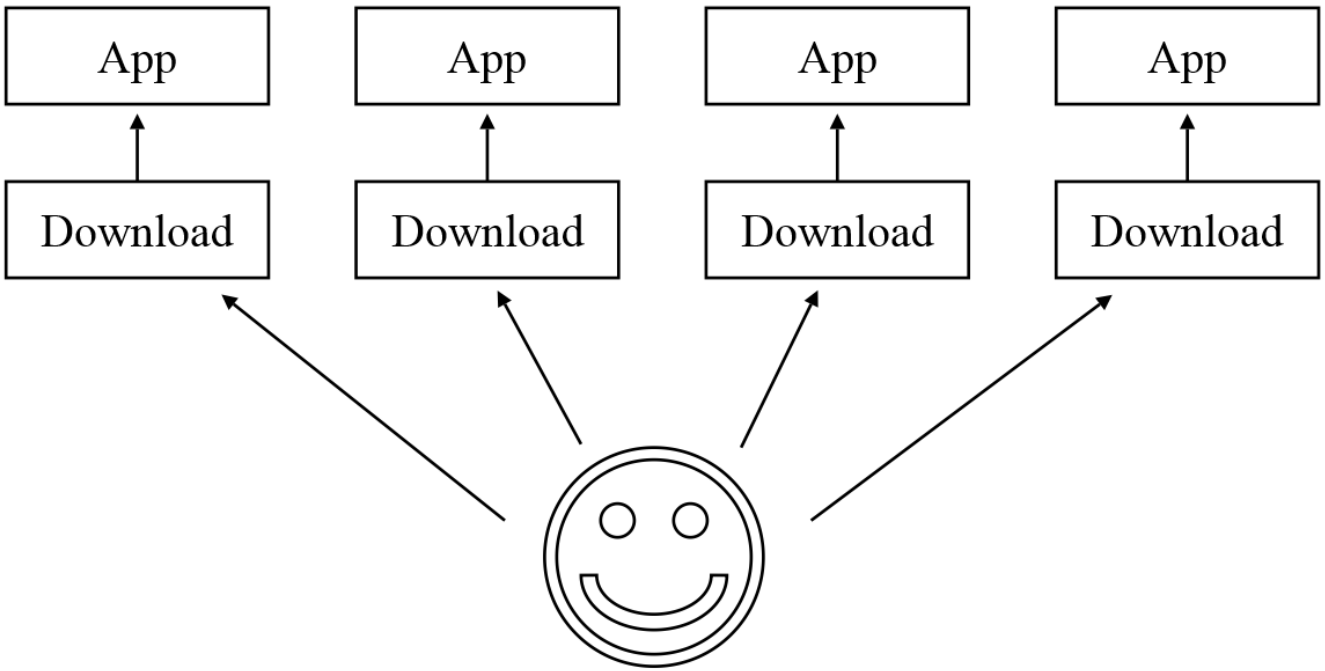
Core standalone App vs. Core standalone Library

Solution Ideers

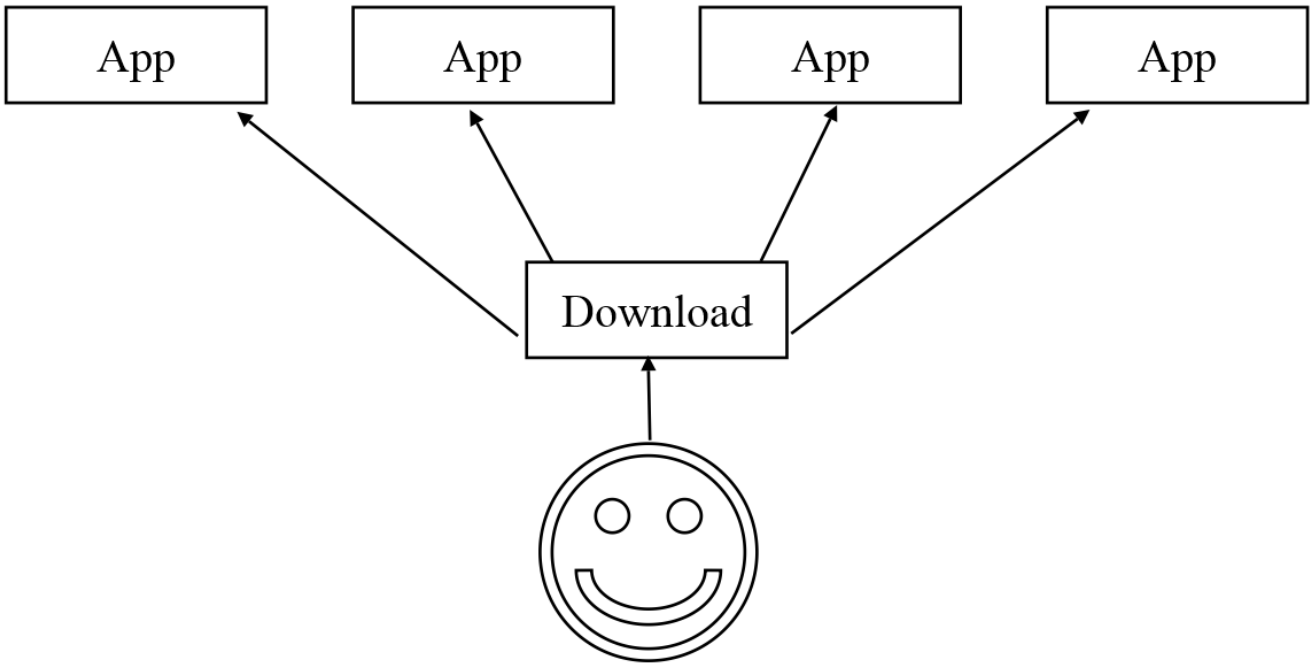


Package solution

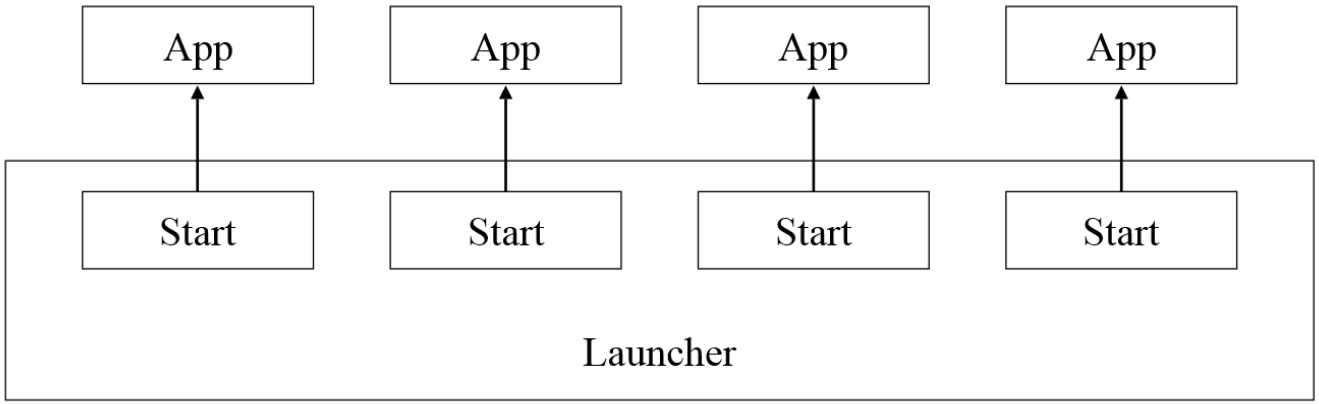
Download one place



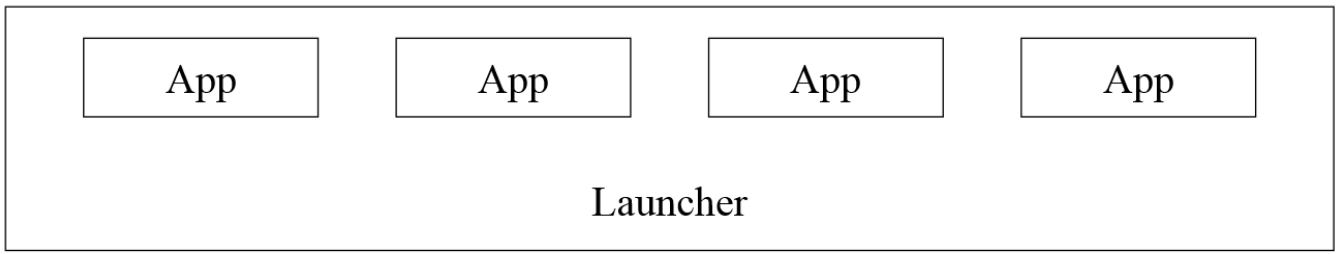
Download one place



Make one app

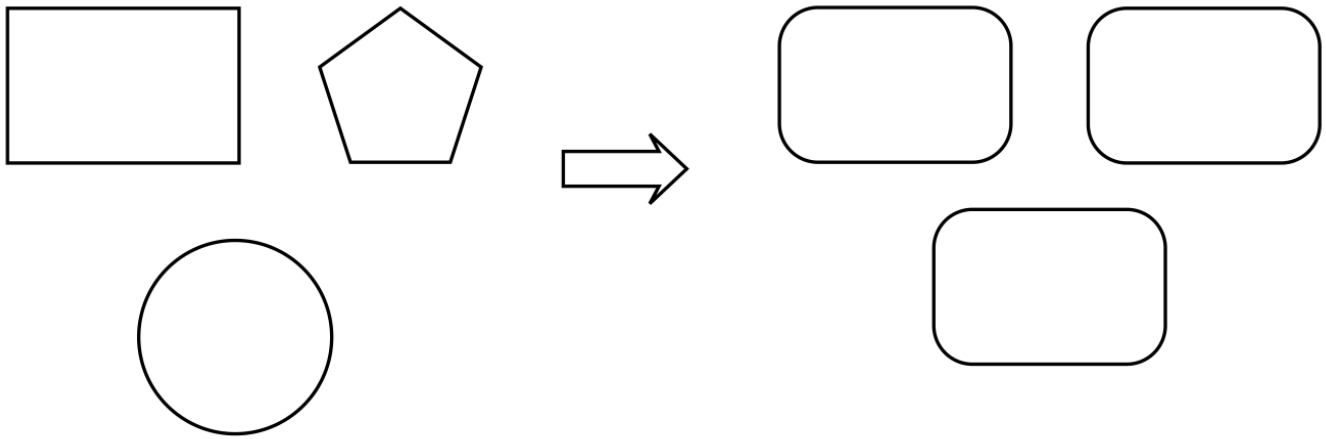


Make one app



Conclusion

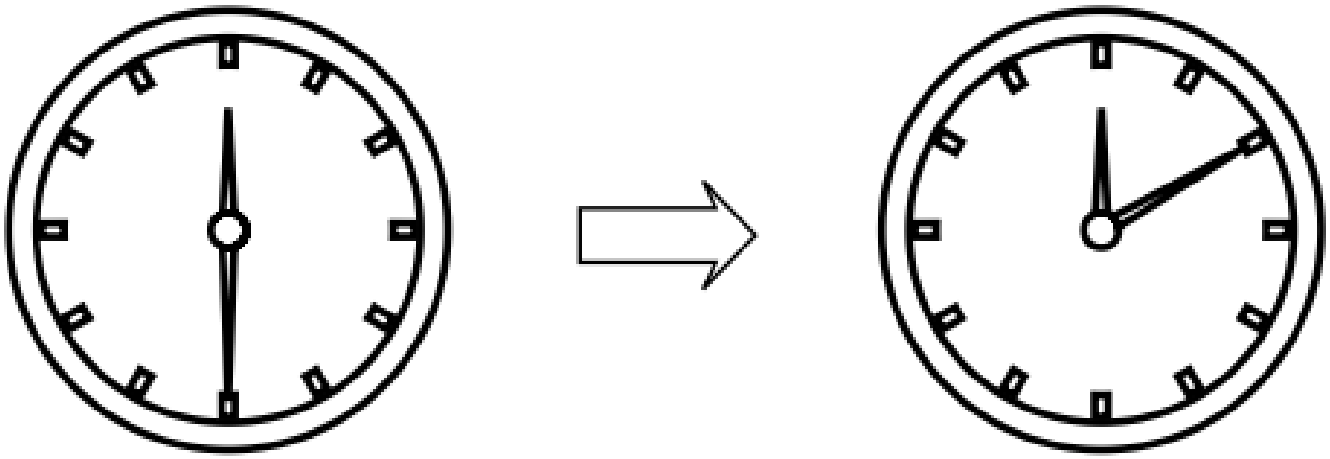
The overall project



Google play and analytics

- Maintained
- Version control
- Name change

Build structure



Product owner

- Improved work flow for B&D
- Shared user stories
- Combined backlog

Recommendation and reflexion

Product owner

- Important role
- One per subproject

User stories

- Standardization is good
- Improve the existing

Redmine

- Good for wiki pages
- Not good for user stories
- A new tool for user stories should be found

Rename

- Rename needed for "Ugeplan"
- A lot of work
- Only rename if absolutely necessary
- Renaming effect a lot of groups

Package

- If Google make package solutions
  - Make a package for all the apps
- Else
  - Combine all the apps in the launcher
  - Do it as early as possible

Backup

- Server has backup
- Saves backup internally
- Backup should be saved externally

Leadership

- A good leader is important
- Improve the work flow
- Improve collaboration in the project

Subprojects

- Good to use
- Usefull for dividing responsibilities
- More focus on GUI

Work time and place

- Worked at the university
- Better contact with other groups
- Better work flow