

Track Forever

Future-proofing issue trackers

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Motivation

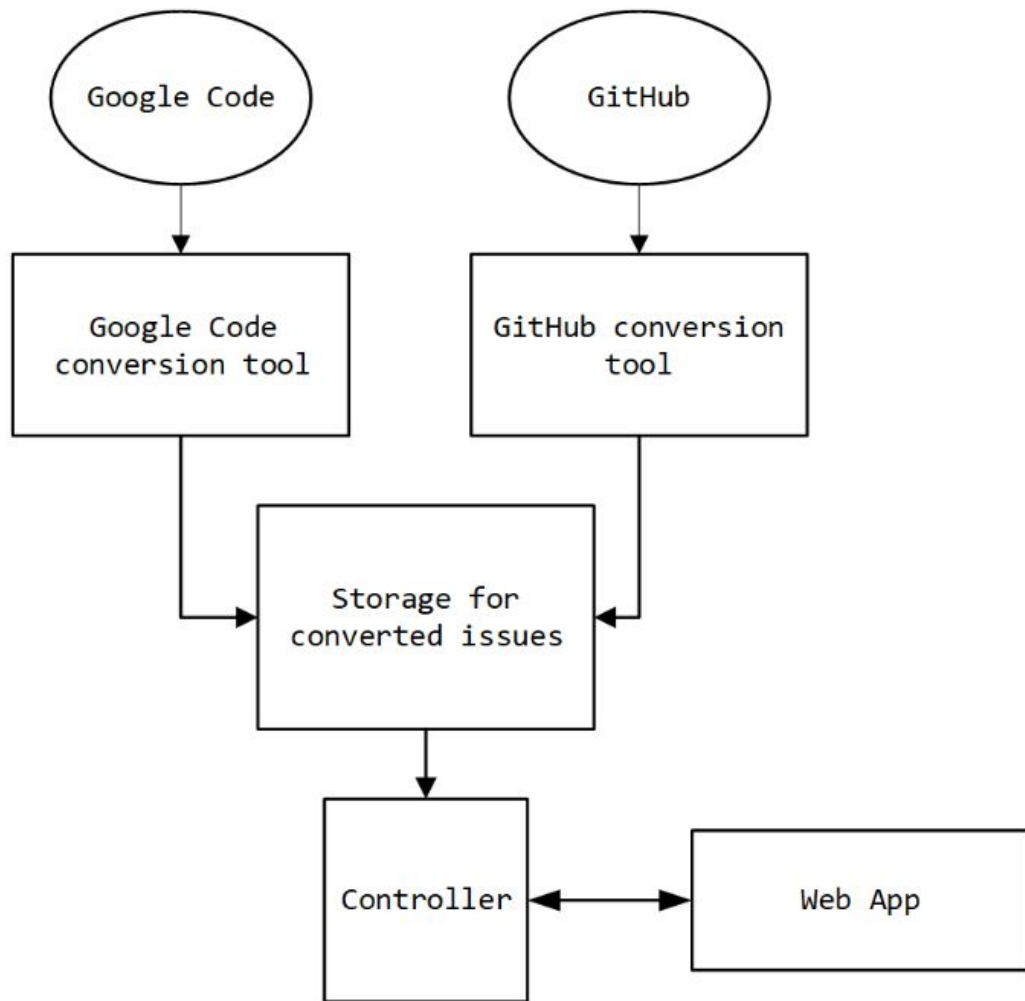
- Issue tracking essential to productivity of team
- Problem when issue tracker discontinued
 - Need to access issues
 - Need to migrate to a new issue tracker
- How common is this?
 - Google Code discontinued January 25, 2016
 - Microsoft Codeplex discontinued December 15, 2017
- Extraction tools for these issue trackers are already deprecated or non-functional

Related Work

- Offline support is an afterthought for most issue trackers
- TaskWarrior can import from 15 issue trackers and works offline
 - Lacks support for teams
 - Awkward user interface
- Jira can import from > 10 issue trackers and works offline
 - Proprietary → not future-proof
 - Not free
 - Exported issues are not designed to be universal

Approach

- Convert issue trackers into a unified format
- Prioritize extensibility to convert from more issue trackers
- Support offline from the start
- Be open to usage from other clients



Metrics

- Primary metrics: Number of issue trackers compatible with our tracker
 - Quality of the conversion
- Real world
 - Create “dummy” project on popular issue trackers that utilizes multiple features and has a minimum number of issues
 - Export to our issue tracker to show real world usage

Difficulties and Challenges

- No issue tracker is the same
 - Different types of files exported by issue trackers
 - Field conflicts in the files exported by issue trackers
 - Missing fields
 - Fields with the same functionality but different names
- A conversion tool for each issue tracker is necessary

Difficulties and Challenges

- How to import fields into our issue tracker
- Difficulty working with proprietary issue trackers like Jira
- Dealing with custom fields