Configuration and Caching

This is a page that contains the resources for GeoDashboard Refactoring.

Config file for Parser

This is evaluated in terms of python

Possible config file formats

https://martin-thoma.com/configuration-files-in-python/

- Python Configuration File (.py)
    - python library: no need, just import
    - problem; it's not genetic format; and easy for others to add actual python code in the config file
- JSON
    - python library: built-in json
    - problem: no comment preservation, the order of keys can be changed (if you rewrite it)
- YAML
    - http://stackoverflow.com/questions/3444436/configobj-configparser-vs-using-yaml-for-python-settings-file
    - python library:
        - pyYAML : no comments preservation, the order of keys can be changed (if you rewrite it)
        - ruamel.yaml: overcome the problems of pyYAML
- INI
    - python library: built-in ConfigParser, ConfigObj
    - problem:
        - no complex structures with lists of unnamed elements containing mappings/dictionaries
        - no comment preservation, the order of keys can be changed (if you rewrite it)
- XML
    - python library: many python xml library
    - problem:
        - cumbersome to edit the file itself.

Possible choice: YAML

- python Library: ruamel.yaml
    - https://pypi.python.org/pypi/ruamel.yaml
    - https://bitbucket.org/ruamel/yaml

Caching API

Testing and looking in to caching technology for RESTful API

Useful articles

- Varnish vs Squid: https://www.quora.com/What-is-the-fundamental-difference-between-varnish-and-squid-caching-architectures

Varnish

- Main site: https://www.varnish-cache.org/
- Monitoring (web UI) the varnish: http://munin-monitoring.org/ with Varnish plugin (https://github.com/munin-monitoring/contrib/tree/master/plugins/varnish4)

Memcached

- Main site: http://memcached.org/

Redis

- Main site: http://redis.io/