Siemens / Logilab TDD

Experiences from Plugfest 2021-09

https://github.com/w3c/wot-testing/issues/168
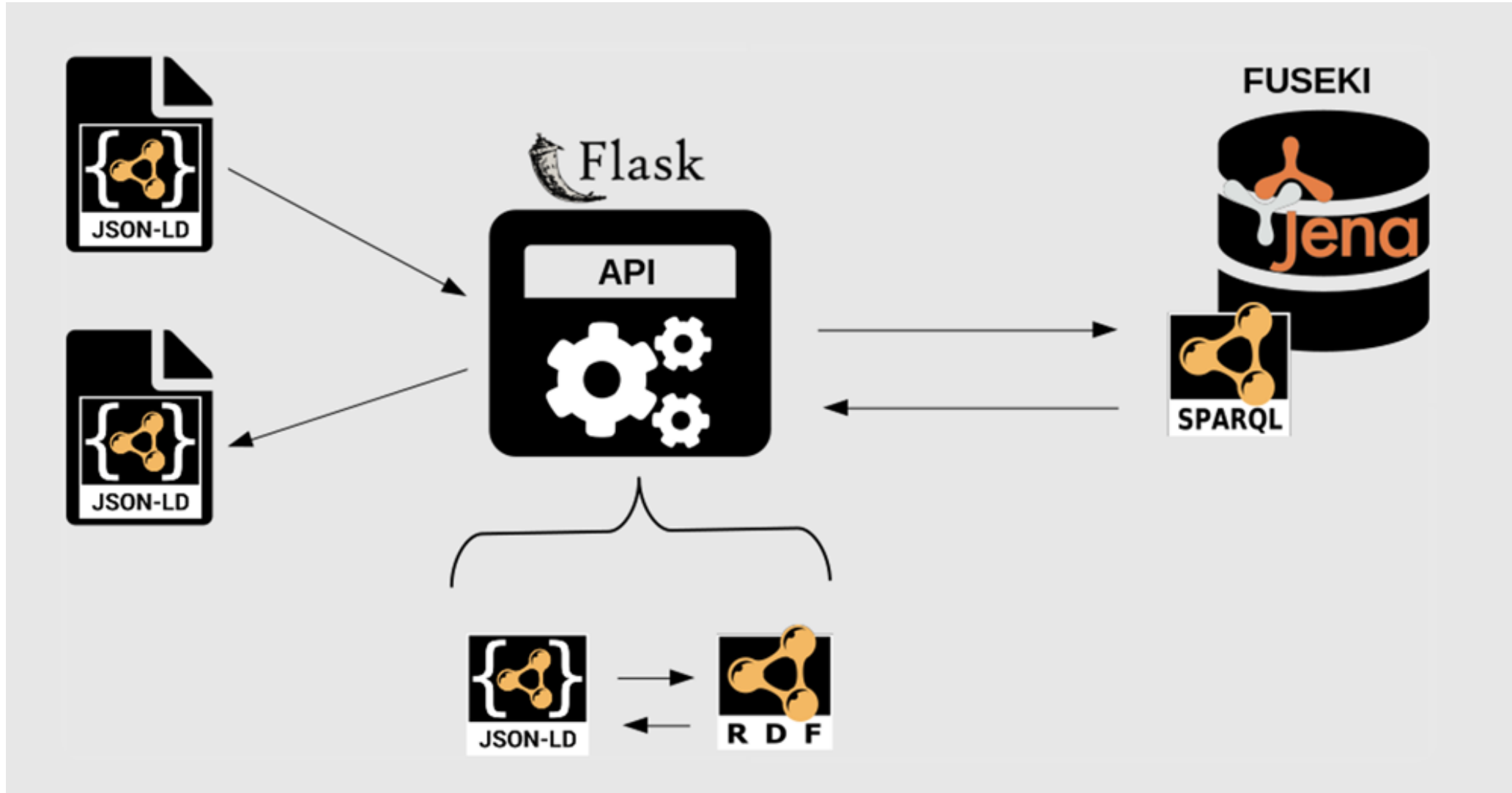
General

- Implementation covering
  - Exploration phase (not introduction)
  - Lacking mandatory /search/jsonpath
- TDD was successfully tested with TDs from Plugfest 2021-06
- Testing with 2021-09 TDs showed some new as well as known issues
- Has anyone included our TDD in her/his setup?

TDD Architecture

Issues wrt. TD

- Values sometimes not present in TD since they are optional
  - "@type": "Thing" (needed for framing)
  - "id" (needed to avoid duplicates; TTL as workaround)
- Special characters, e.g. "unit" having *%* character
  - Better be RFC 3986 compliant?
- "@context": "https://www.w3.org/2019/wot/td/v1"
  vs. "http://www.w3.org/ns/td"
  - Both used in TD specification documents
- "securityDefinitions" not restored correctly
  - We propose new TD term "securityDefinitionForSecurityConfiguration"

Issues wrt. our implementation

- /things
  - Ran into a timeout due to performance issues on Kubernetes cluster
  - Needed to introduce "chunked transfer encoding"
  - To be done: return as an array
- /things/{id}
  - GET (*retrieveThing*) without performance issues
  - PUT (*createThing*) and DELETE (*deleteThing*) working
  - *createAnonymousThing* not yet tested
  - *updateThing, partiallyUpdateThing* not implemented
- /search/sparql
  - POST running as expected
  - Modify / delete information via SPARQL not tested (might be a security issue)