Plans for the Web API

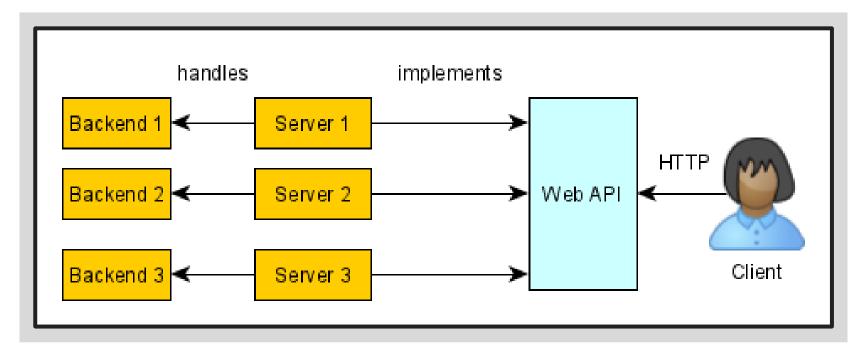
Konstantin Baierer OCR-D Phase 3 Kick-Off Workshop 2021-07-30

Rationale

- Our focus on consistent command line interfaces has proven successful but we need networking for scale and ease-of-use
- We will have multiple implementations scenarios that will provide HTTP interfaces to their backends in OCR-D phase 3
- Having a common Web API for these different implementation projects will improve interoperability and reduce redundancy

What we mean by "Web API"

("we" being the coordination project)



What we will provide

(based on community-wide discussion of course)

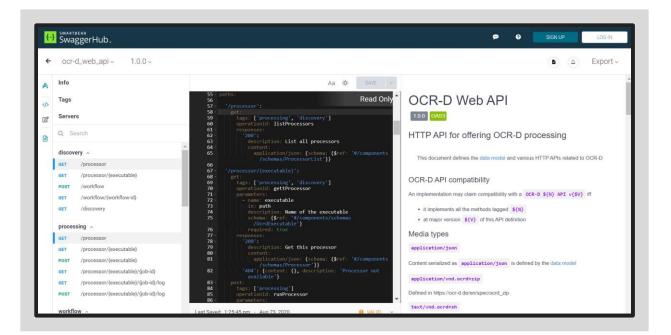
- OpenAPI definition of the HTTP interface
- Tooling for discovery, introspection, validation, etc.
- Possibly a reference implementation to make it easier to integrate a backend (think: core and spec)

What will the IP provide

- server that implements the Web API
- scenario-specific backend
- potentially additional endpoints for scenariospecific extensions (e.g. authentication, rationing, prioritizing...)

Overview of the draft API

• NOTE: This is a draft and still subject to change



Grouping functionality

- discovery: what processors are available, which parts of the API is implemented, what predefined workflows are available, terms of use, ...
- workspace: upload/register/list/retrieve workspaces

Grouping functionality (cnt'd)

- processor: list/call processors, list/manage processor jobs
- workflow: list/call workflows, list/manage workflow jobs
- training: training OCR engines, still unspecified
- acl: authentication, still unspecified

Web API and workflow/processing server

• a possible backend for a reference implementation

Web API and Processor CLI

• The processor group of endpoints should support most/all features of the processor CLI

Web API and workflow format

• The workflow group of endpoints should accept/send workflows in this format

