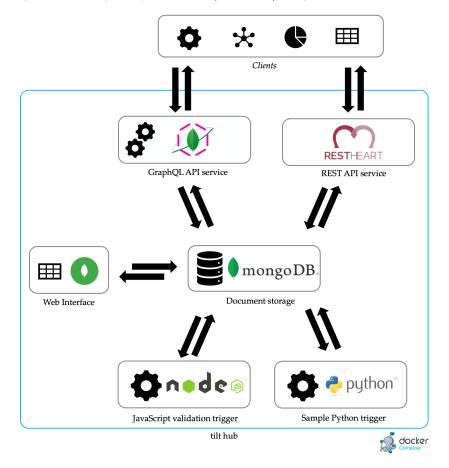
tilt-hub: Transparency Information Language Document Hub

 ${f tilt-hub}$ is a document storage for transparency information specified in the $Transparency\ Information\ Language\ and\ is\ part\ of\ the\ Transparency\ Information\ Language\ and\ Toolkit.$

This document storage comprises five services in order to perform CRUD operations on transparency information documents and serves for clients, that either only want plain information about GDPR compliance of a data controller or carry out arbitrary complex research/statistics/analysis tasks.



Usage

Simply run

docker-compose up [-d]

After some startup time, there will be the following five containers:

docker-compose ps State Name Command ___ 0.0.0.0:27017->27017/tcp, 0.0.0.0: docker-entrypoint.sh --con ... Uр mongo tini -- /docker-entrypoint ... mongo-express Uр 0.0.0.0:8081->8081/tcp dumb-init -- /entrypoint.s ... Uр 0.0.0.0:8082 -> 80/tcpmongoke java -Dfile.encoding=UTF-8 ... 4443/tcp, 8009/tcp, 0.0.0.0:8080->8 restheart Uр docker-entrypoint.sh node ... triggers Uр

Mongo DB

The mongo database is available via mongodb://root:SuperSecret@mongo. A client application written in Python could look like:

```
from pymongo import MongoClient
from pprint import pprint
```

client = MongoClient('mongodb://root:SuperSecret@mongo:27017/?authSource=admin&readPreference

```
filter={
    'controller.name': 'Green Company'
}

result = client['tilt']['tilt'].find(
    filter=filter
)

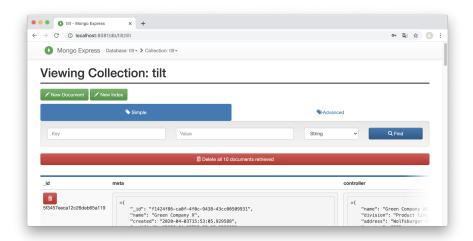
for document in result:
    pprint(document)
```

Mongo Express

A graphical interface to the database can be reached under http://localhost:8081/.

Username: admin

Password: SuperSecret



REST API

In order to retrieve all documents from the database tilt and collection tilt.

http GET "localhost:8080/tilt/tilt" -a admin:secret

GraphQL API

Use the *GraphiQL* interface running at http://localhost:8082 to perform GraphQL operations. To return the meta.name field of all documents run:

Triggers

In this basic scenario there will be a JavaScript trigger microservice which validates all documents on every change that occurs using the tilt-schema.

The output of the validation can be obtained directly from the logs:

docker-compose logs -f triggers

```
triggers | Downloaded schema from https://raw.githubusercontent.com/Transparency-Intriggers | Trigger on tilt collection initialized successfully!
triggers | Document changes detected!
triggers | tilt schema validation successful!
```

Similarly, there could by a Python based trigger which is located here. In order to use it, configure the docker-compose.yml accordingly.

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