# Hackathon DTS API

## Hack DTS 2 CSV

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Github :
https://github.com/AudricWannaz/DTS2CSV/tree/main/dts2csv

Deployed :

https://share.streamlit.io/audricwannaz/dts2csv/main/dts2csv/streamlitdts2csv.py

# Structure

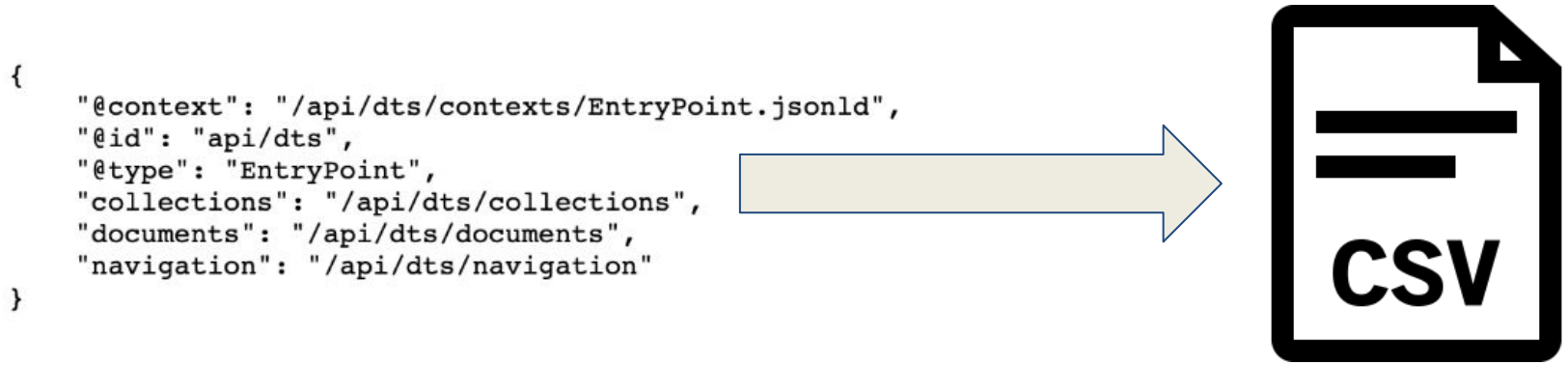
1. Objectives
2. Architecture
3. Frontend GUI
4. Backend Processor
5. Examples

DTS2CSV

# 1. Objectives

Make processing of DTS contents
by third-party application easier

**Solution** : download contents as CSV



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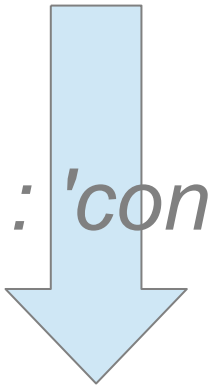
# 2. Architecture

**Frontend GUI** python




**Backend Processor** python

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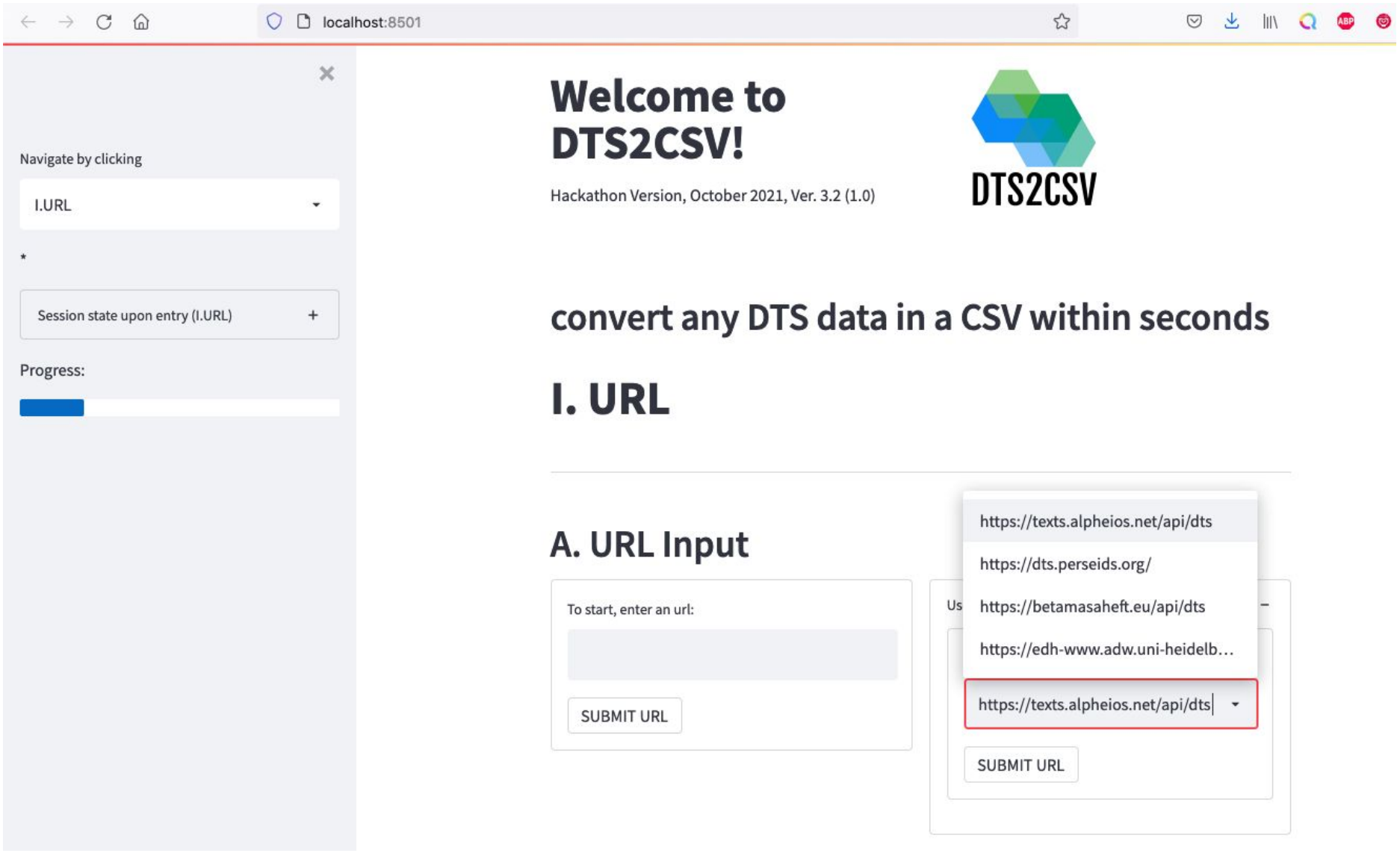
# 3. Frontend GUI

- Powered by Streamlit (https://streamlit.io/)
- Allows fast-easy basic config
- Step-by-step panels
- Both for novice and advanced users
  (highly customizable)
- Can be used locally or deployed on web server

# 3. Frontend GUI



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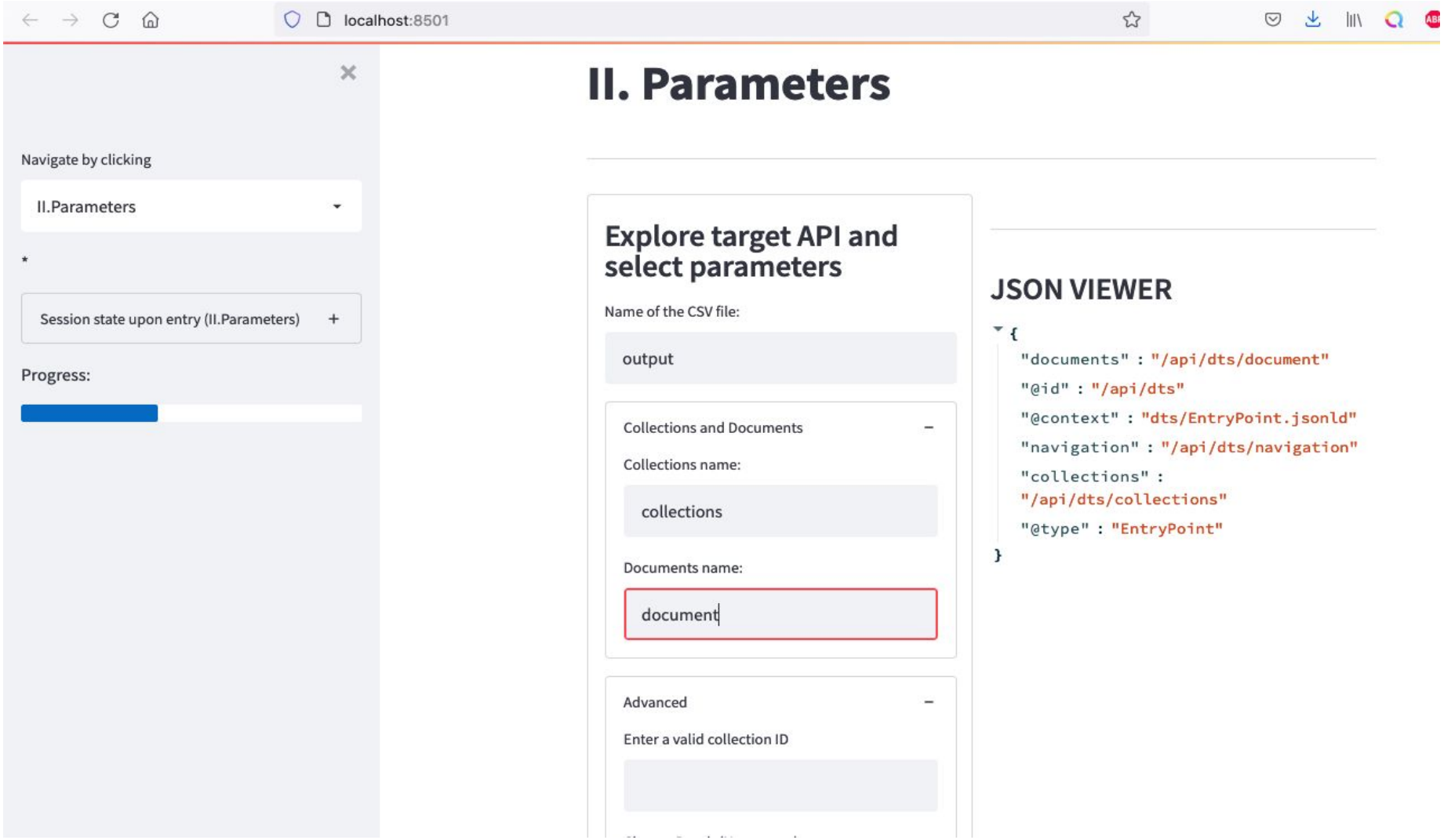
# 3. Frontend GUI



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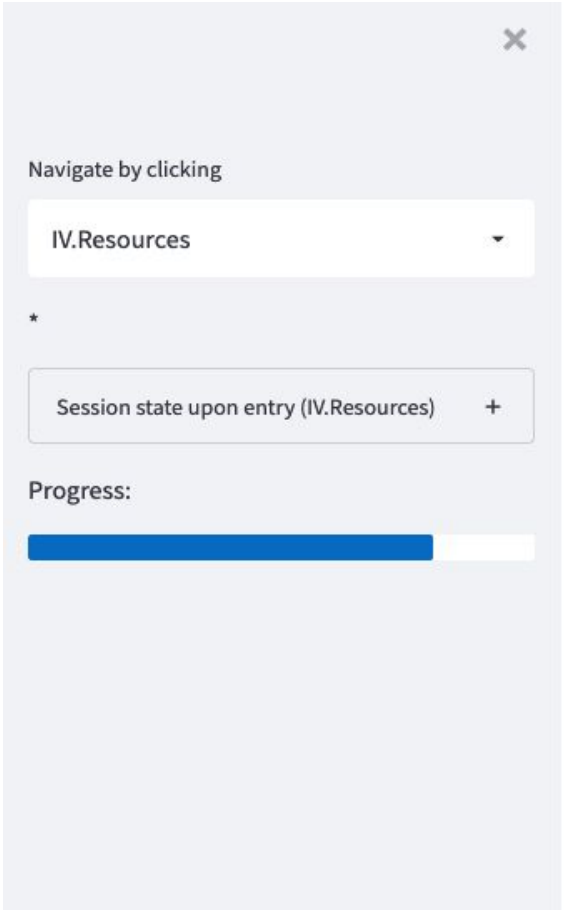
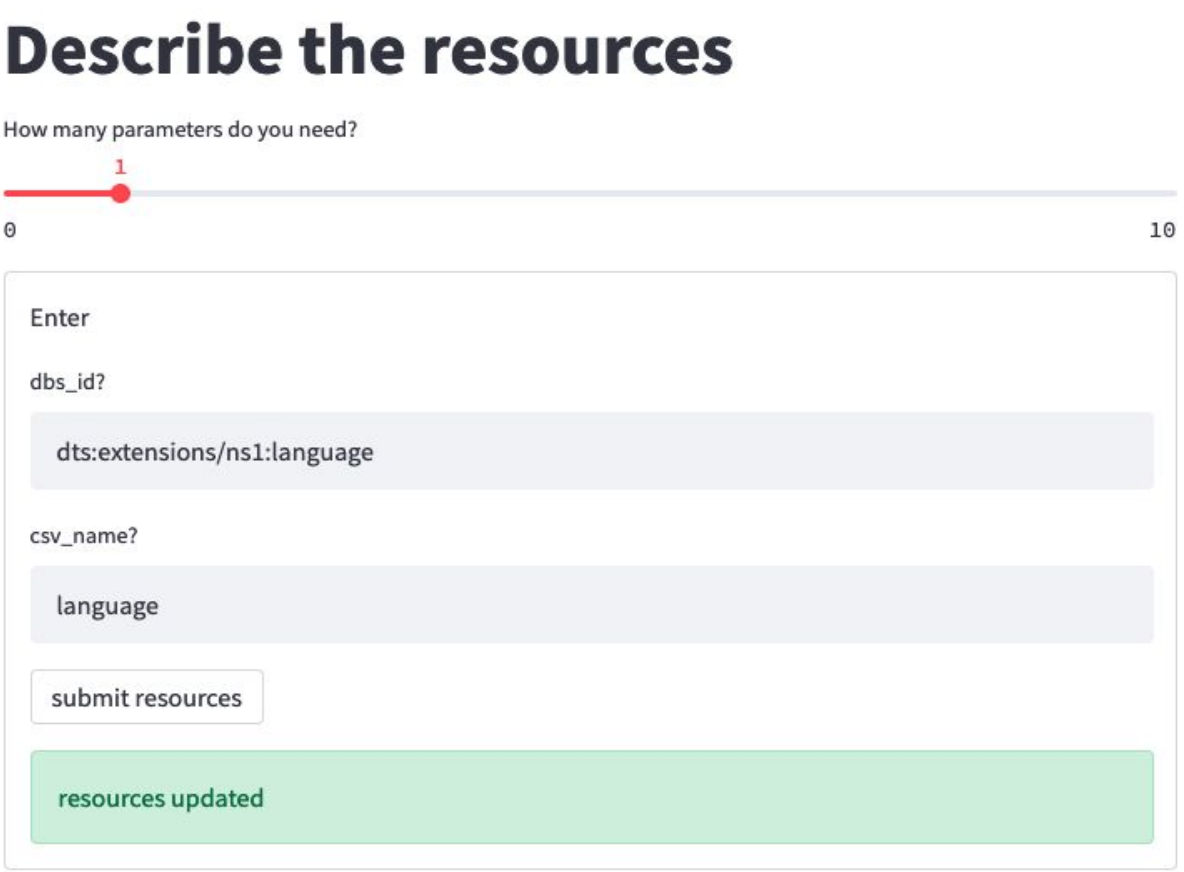
# 3. Frontend GUI



# 4. Backend Processor

- Automatic walk through collections and resources
- Can start from a given collection and stop at a given depth
- Extract basic info + custom params
  - `ex : 'dts:extensions/ns1:language' => 'language'`
- Can dowload TEI and convert to Txt/Html
- ! needs Saxon/Tei-XSL available on host
- Compute statistical infodata
- NbWords, nbLines, nb Total Resources

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# 4. Backend Processor

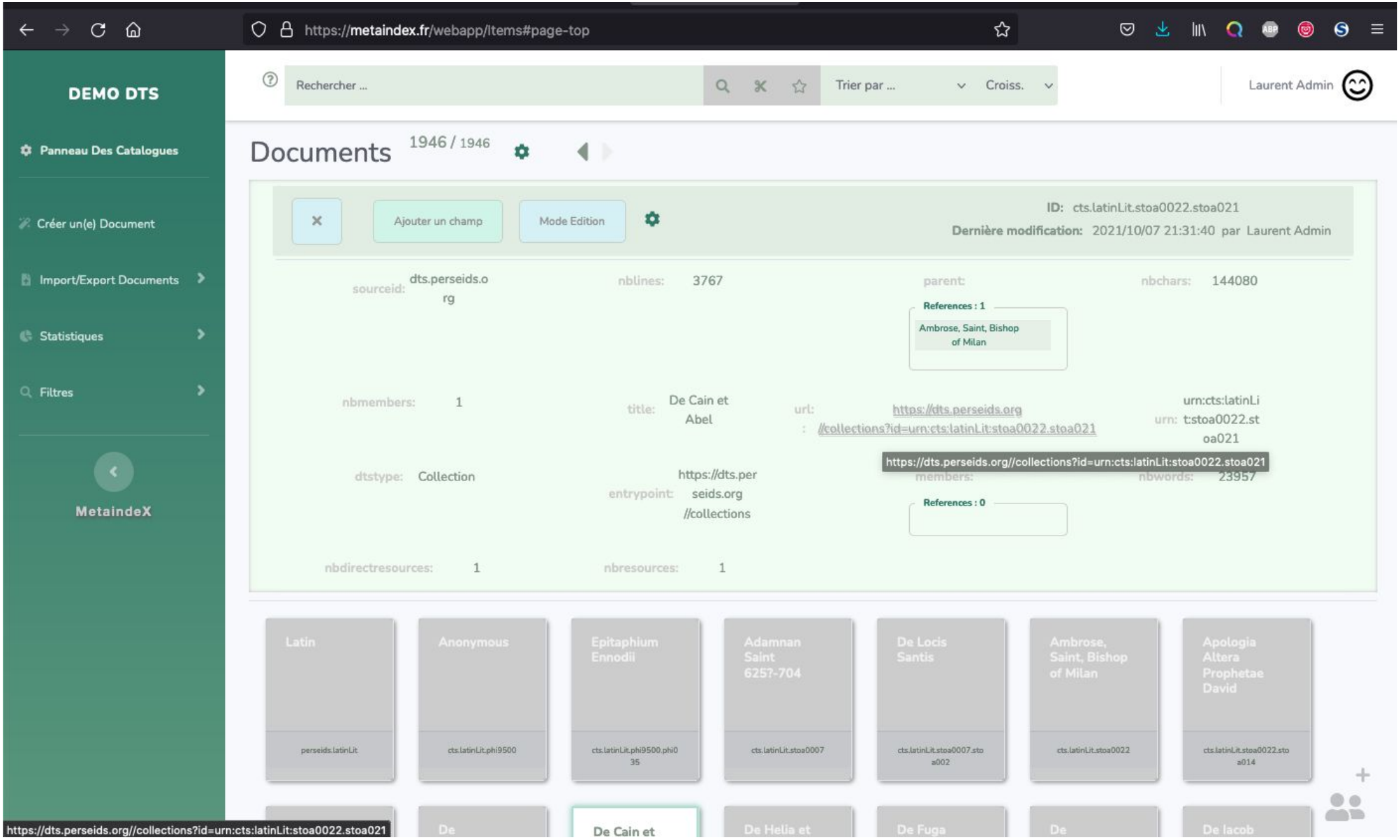
```
"SAXON_JAR_PATH":"HOME/dev/tei/install/SaxonHE10-5J/saxon-he-10.5.jar",
"TEI_XSL_STYLESHEETS_PATH":"HOME/dev/tei/install/tei-xsl",
"DTS_URL":"https://dev.chartes.psl.eu/api/nautilus/dts/",
"DTS_COLLECTIONS_ENTRYPOINT":"collections",
"DTS_DOCUMENTS_ENTRYPOINT":"document",
"START_COLLECTION_ID":"default",
"MAX_DEPTH":"None",
"RETRIEVE_FILES":"True",
"TRANSFORM_TEI_TO_TXT":"True",
"TRANSFORM_TEI_TO_HTML":"False",
"INLINE_TXT_IN_CSV":"True",
"COLLECTIONS": [
    {"dts_id":"title"},
    {"dts_id":"dts:extensions/ns1:creator[0]/@value", "csv_name":"author"},
    {"dts_id":"dts:extensions/ns1:date", "csv_name":"year"},
    {"dts_id":"dts:extensions/ns1:language", "csv_name":"language"}
],
"RESOURCES": [
    {"dts_id":"dts:extensions/ns1:language", "csv_name":"language"},
    {"dts_id":"title","mandatory":"True"},
    {"dts_id":"dts:extensions/cts:description[0]/value", "csv_name":"description"}
]
```

# 4. Backend Processor

```
(base) macbook-pro-de-admin-1:perseids laurentml$ python ../../dts2csv/dts2csv.py ../../dts2csv/sample_configs/dts2csv-config-
dts2csv-config-alpheios.json   dts2csv-config-perseids.json   dts2csv-config-these_enc.json
(base) macbook-pro-de-admin-1:perseids laurentml$ python ../../dts2csv/dts2csv.py ../../dts2csv/sample_configs/dts2csv-config-perseids.json
[C] urn:perseids:latinLit
  [C] urn:cts:latinLit:phi9500
    [C] urn:cts:latinLit:phi9500.phi035
      [R] urn:cts:latinLit:phi9500.phi035.opp-lat1
downloading ./dts2csv_extract/files/cts.latinLit.phi9500.phi035.opp-lat1.xml
generating  ./dts2csv_extract/files/cts.latinLit.phi9500.phi035.opp-lat1.txt with XSL /Users/laurentml/dev/tei/install/tei-xsl/txt/tei-to-text.xsl
  [C] urn:cts:latinLit:stoa0007
    [C] urn:cts:latinLit:stoa0007.stoa002
      [R] urn:cts:latinLit:stoa0007.stoa002.opp-lat1
downloading ./dts2csv_extract/files/cts.latinLit.stoa0007.stoa002.opp-lat1.xml
generating  ./dts2csv_extract/files/cts.latinLit.stoa0007.stoa002.opp-lat1.txt with XSL /Users/laurentml/dev/tei/install/tei-xsl/txt/tei-to-text.xsl
  [C] urn:cts:latinLit:stoa0022
    [C] urn:cts:latinLit:stoa0022.stoa014
      [R] urn:cts:latinLit:stoa0022.stoa014.opp-lat1
downloading ./dts2csv_extract/files/cts.latinLit.stoa0022.stoa014.opp-lat1.xml
generating  ./dts2csv_extract/files/cts.latinLit.stoa0022.stoa014.opp-lat1.txt with XSL /Users/laurentml/dev/tei/install/tei-xsl/txt/tei-to-text.xsl
    [C] urn:cts:latinLit:stoa0022.stoa015
      [R] urn:cts:latinLit:stoa0022.stoa015.opp-lat1
downloading ./dts2csv_extract/files/cts.latinLit.stoa0022.stoa015.opp-lat1.xml
generating  ./dts2csv_extract/files/cts.latinLit.stoa0022.stoa015.opp-lat1.txt with XSL /Users/laurentml/dev/tei/install/tei-xsl/txt/tei-to-text.xsl
    [C] urn:cts:latinLit:stoa0022.stoa019
      [R] urn:cts:latinLit:stoa0022.stoa019.opp-lat1
downloading ./dts2csv_extract/files/cts.latinLit.stoa0022.stoa019.opp-lat1.xml
generating  ./dts2csv_extract/files/cts.latinLit.stoa0022.stoa019.opp-lat1.txt with XSL /Users/laurentml/dev/tei/install/tei-xsl/txt/tei-to-text.xsl
    [C] urn:cts:latinLit:stoa0022.stoa021
      [R] urn:cts:latinLit:stoa0022.stoa021.opp-lat1
downloading ./dts2csv_extract/files/cts.latinLit.stoa0022.stoa021.opp-lat1.xml
generating  ./dts2csv_extract/files/cts.latinLit.stoa0022.stoa021.opp-lat1.txt with XSL /Users/laurentml/dev/tei/install/tei-xsl/txt/tei-to-text.xsl
    [C] urn:cts:latinLit:stoa0022.stoa025
      [R] urn:cts:latinLit:stoa0022.stoa025.opp-lat1
downloading ./dts2csv_extract/files/cts.latinLit.stoa0022.stoa025.opp-lat1.xml
generating  ./dts2csv_extract/files/cts.latinLit.stoa0022.stoa025.opp-lat1.txt with XSL /Users/laurentml/dev/tei/install/tei-xsl/txt/tei-to-text.xsl
    [C] urn:cts:latinLit:stoa0022.stoa029
```

DTS2CSV

# 5. Examples – MetaindeX GUI



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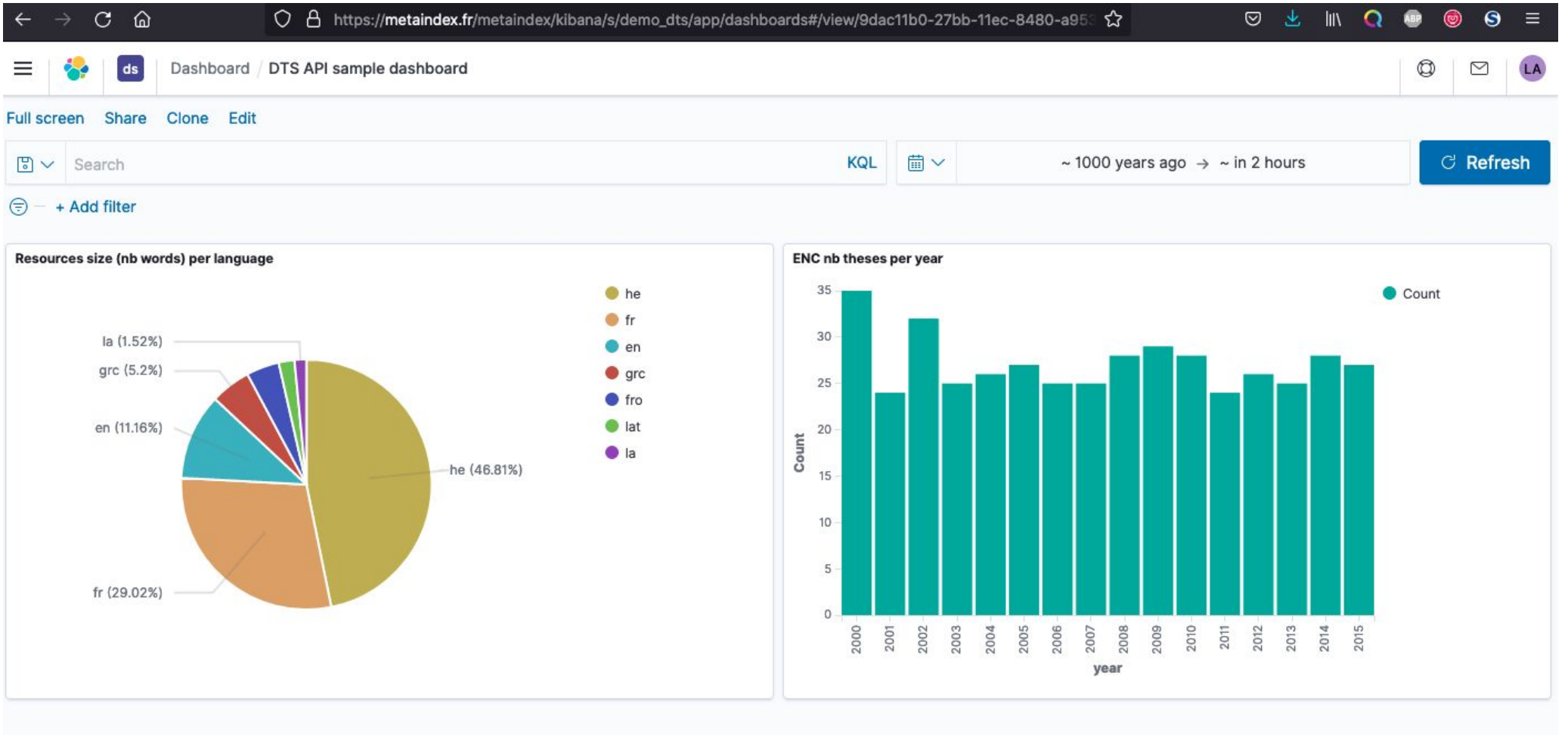
# 5. Examples – MetaindeX - Kibana



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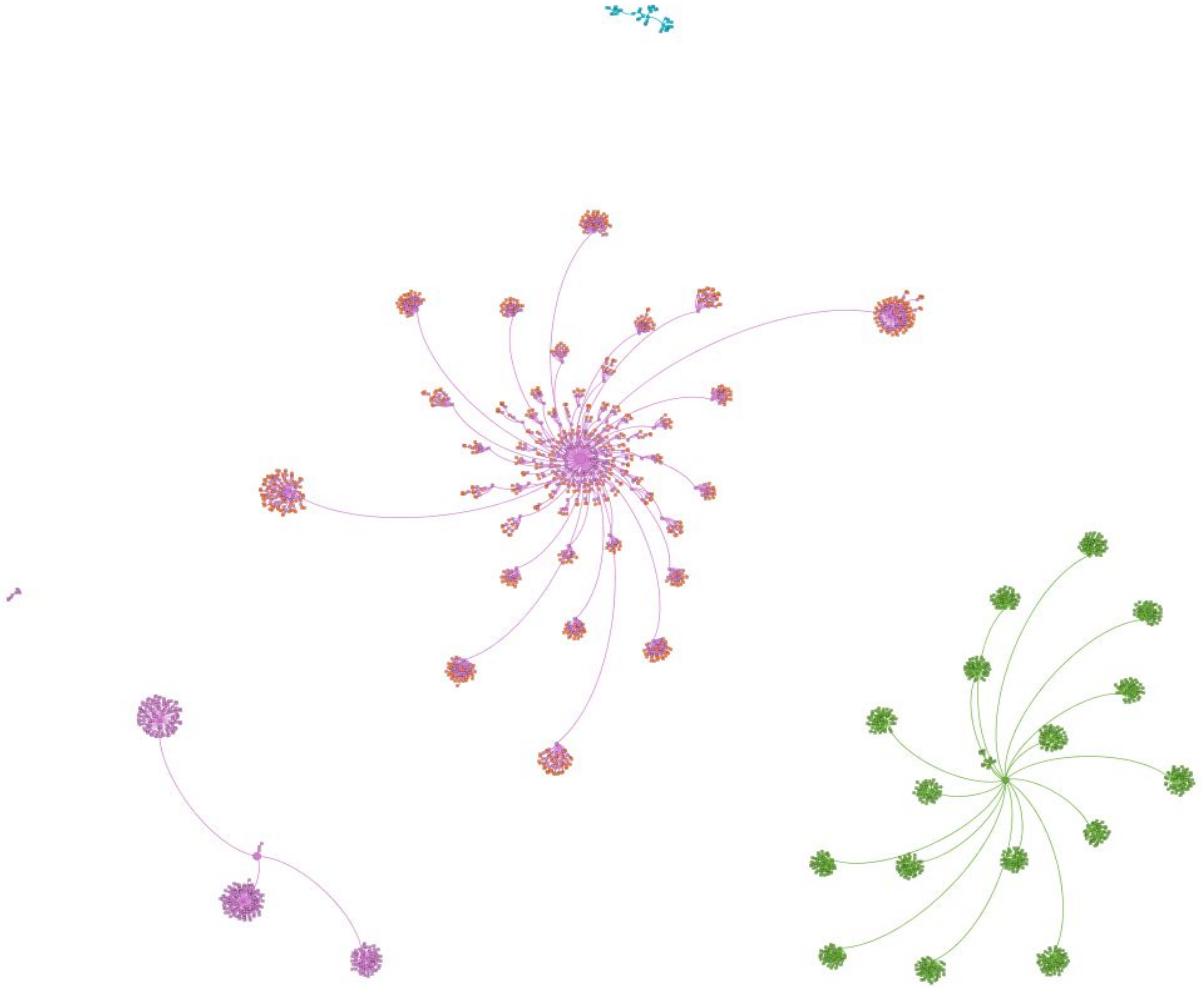
# 5. Examples – MetaindeX - Gephi



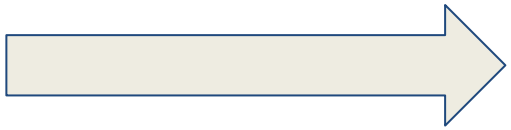
**Collections**

- Alpheios
- Perseids
- Thèses ENC

DTS2CSV

# THANKS FOR YOUR ATTENTION!

```
{
    "@context": "/api/dts/contexts/EntryPoint.jsonld",
    "@id": "api/dts",
    "@type": "EntryPoint",
    "collections": "/api/dts/collections",
    "documents": "/api/dts/documents",
    "navigation": "/api/dts/navigation"
}
```



Streamlit

MetaindeX

Share, explore, analyze, understand your data with an open-source software