Information Retrieval

Exercise – Winter term 2025/2026

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Agenda

1. Retrieval & Pooling
2. Relevance Annotations
3. Assignment
4. Access to Doccano
5. Next Steps

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Pooling

Exercise

Given the following three rankings:

System	Document at rank									
	1	2	3	4	5	6	7	8	9	10
A	d_1	d_2	d_3	d_4	d_5	d_6	d_7	d_8	d_9	d_{10}
B	d_{12}	d_4	d_6	d_8	d_{10}	d_{11}	d_3	d_5	d_7	d_9
C	d_{10}	d_8	d_9	d_{17}	d_{16}	d_{14}	d_{15}	d_{13}	d_{12}	d_{11}

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Which documents will end up in a top-5 pooling?

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Which documents will end up in a top-5 pooling?

Which documents will end up in a top-7 pooling?

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Retrieval & Pooling

- 10 retrieval systems will be used to retrieve documents for judgments
  - Different retrieval paradigms:
    lexical retrieval (i.e., based on tokens & frequencies),
    neural retrieval (i.e., based on semantics), query expansion, etc.
  - Systems are executed via the TIRA platform
  - The 10 systems will later be the baselines on the leaderboard

- Top-10 documents from each system will be “pooled”
  i.e., the top-10 from each system is assessed
  - Pooled documents are deduplicated across systems [lecture 2024: Pooling]
  - We expect around 100–150 documents per topic
  - Corresponds to roughly 2–3 hours of annotation work

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Relevance Assessments

- We judge only binary relevance:
  judging a document as non-relevant (0) or relevant (1)
- Relevance depends on:
  - The topic's description and narrative.
- Relevance does **not** dependent on:
  - Credibility, i.e., non-credible documents can still be found relevant
  - Correctness, i.e., judge as if you did not know the correct answer
  - Why? Credibility and correctness can easily be misjudged
- Exception: Documents are automatically **not relevant** if they ...
  - ... are not written in English language
  - ... contain adult material or spam
  - ... are unreadable or broken

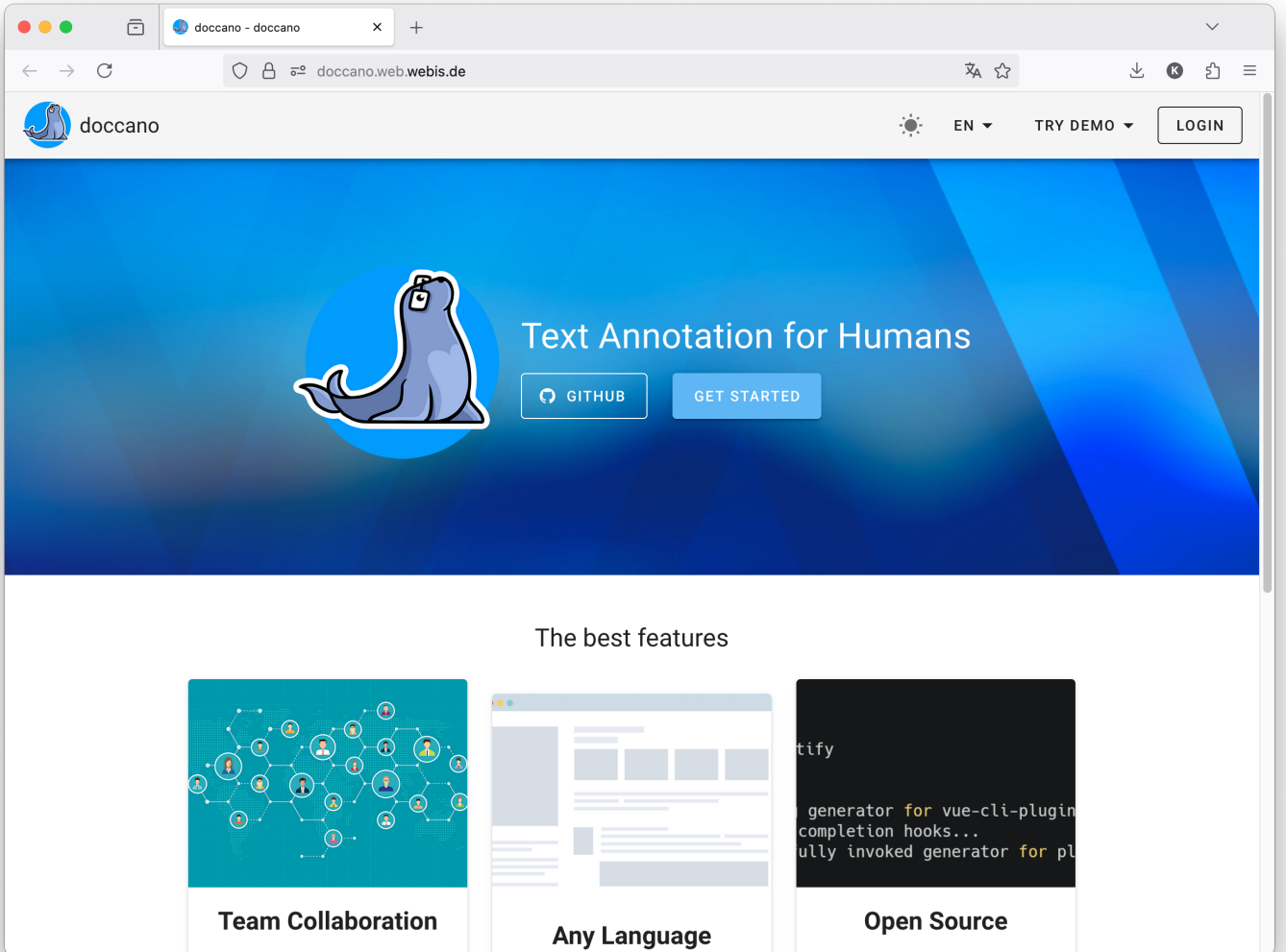
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Assignment

- Relevance assessments will be handled through Doccano
- Each group will receive on Discord:
  - a Doccano account (linked with each topic's Doccano project)
- Documents to judge available: TBA
- Due Date: Friday, 11.12.2026, 23:59
- Deliverable: Annotations finished on Doccano

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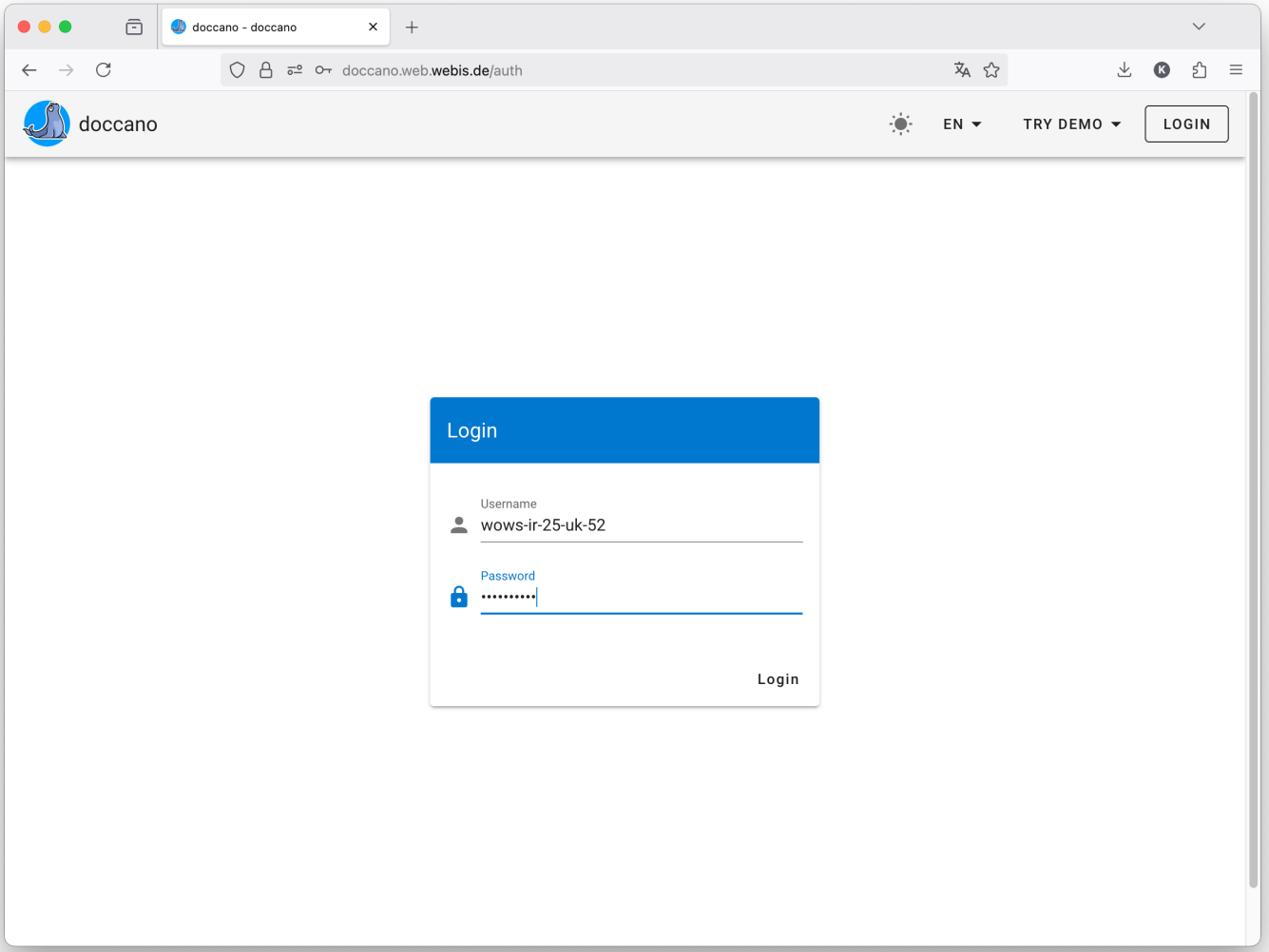
Doccano



[Doccano website]

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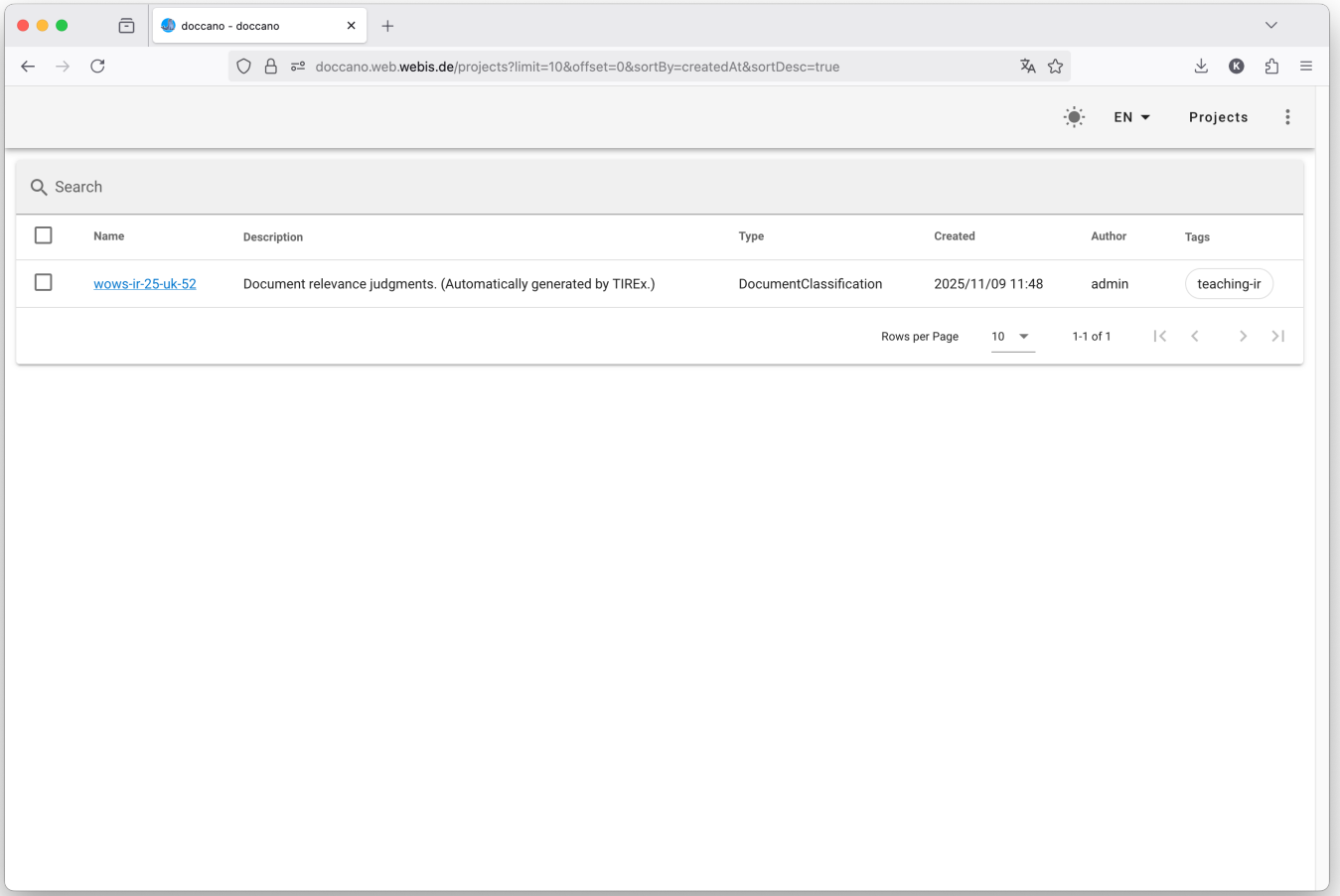
Doccano



[Doccano Login]

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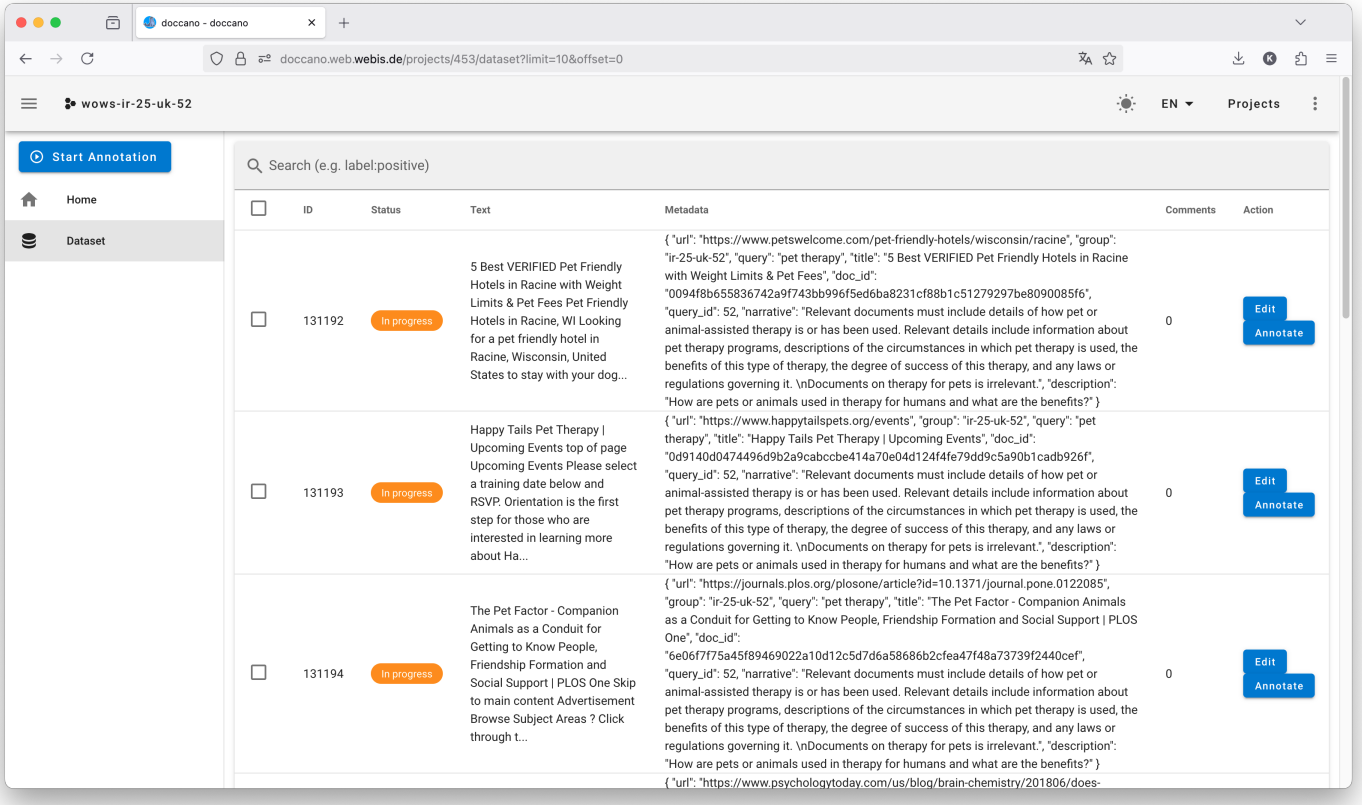
Doccano



Example of the topic(s) view in Doccano.

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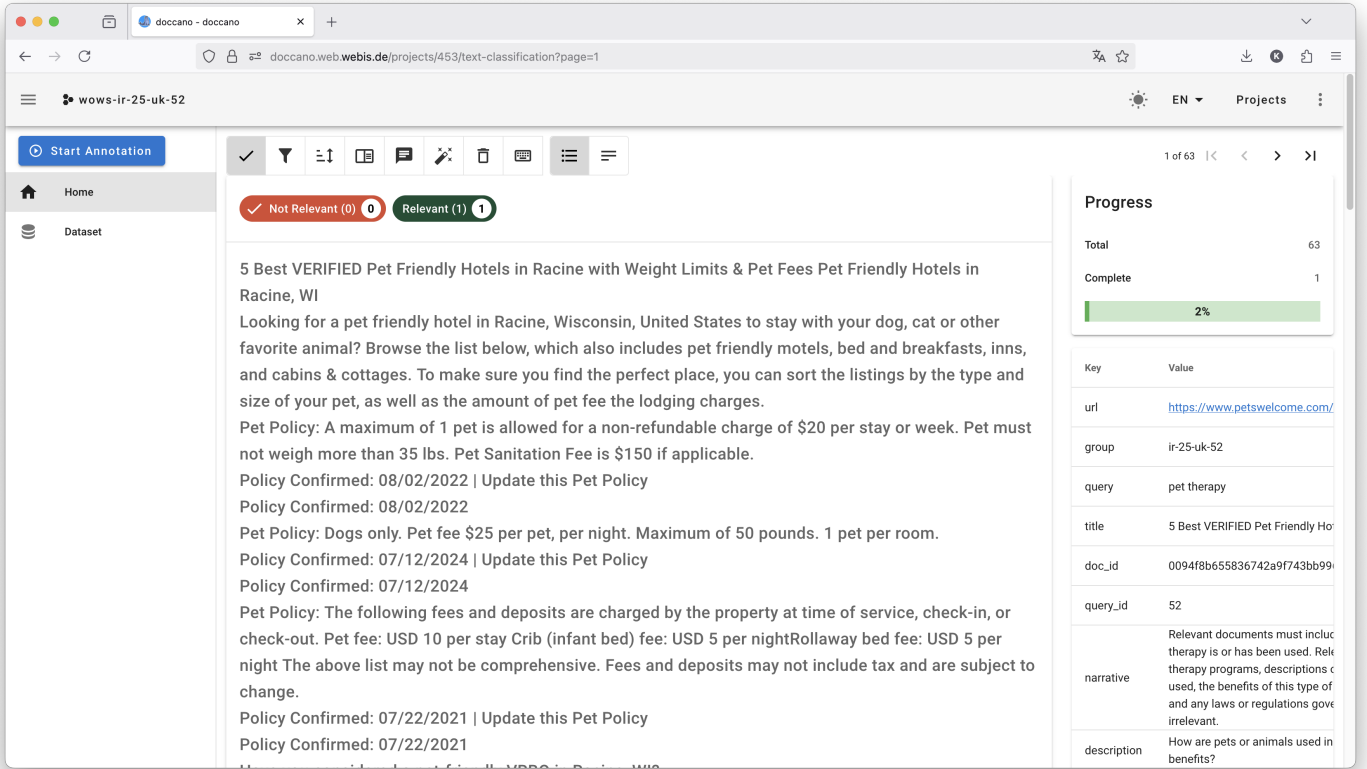
Doccano



Example of the retrieved documents view in Doccano.

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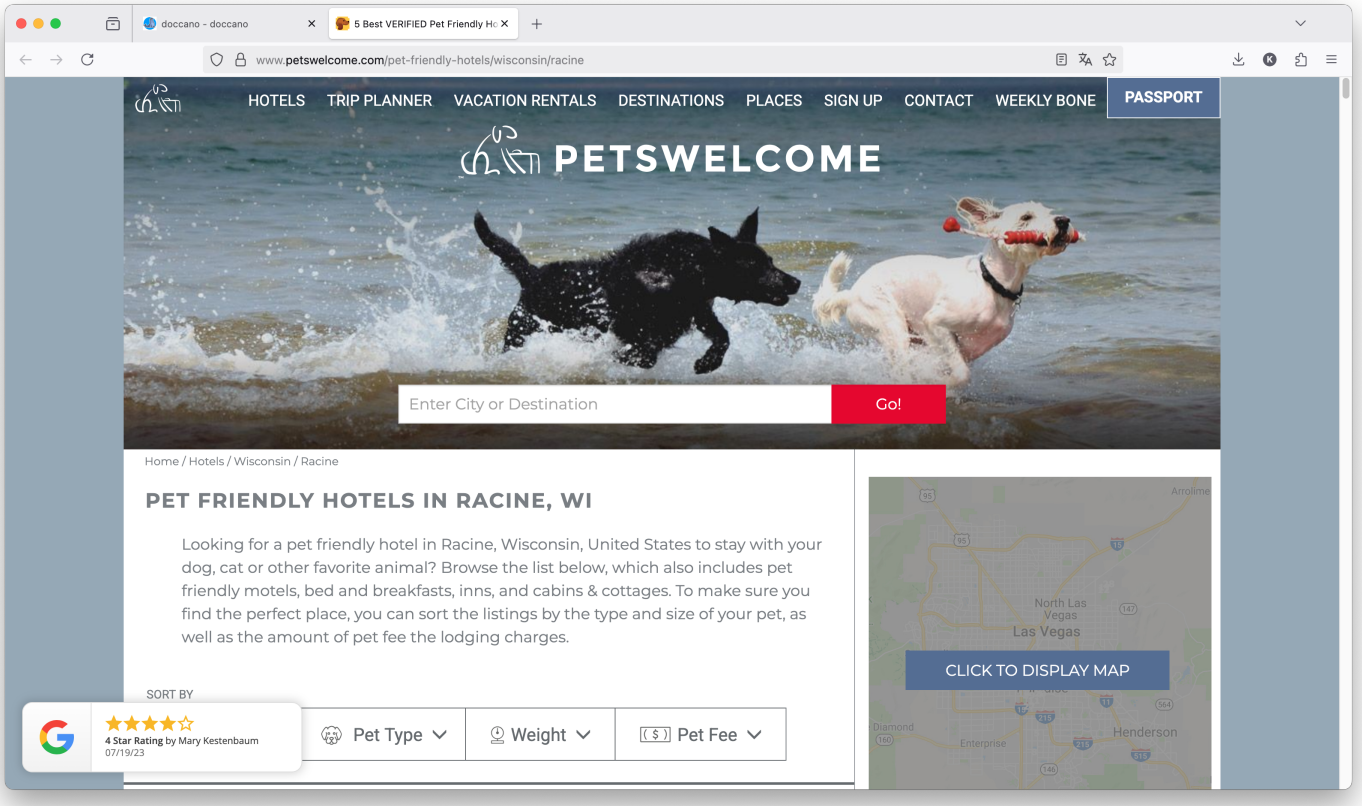
Doccano



Doccano annotation view: Example of a non-relevant website that was retrieved. To use the green progress bar, make sure the button above `Not Relevant (0)` is selected (i.e., ✗ → ✓).

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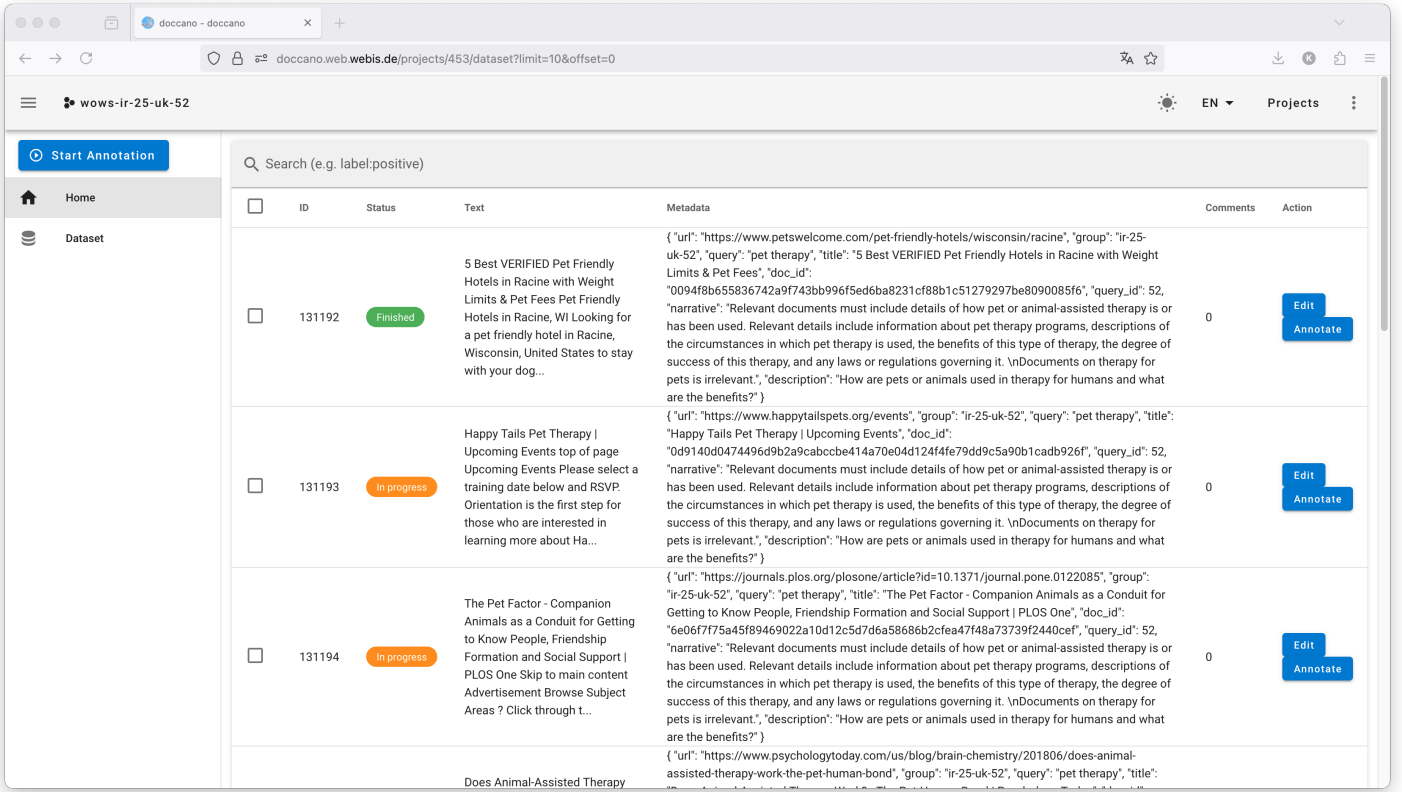
Doccano



Example of a non-relevant website retrieved.

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Doccano



If you select the button above `Not Relevant(0)` after assessing a retrieved document, the document will appear as `Finished` in the document overview.

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Q&A

Any questions?

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Next Steps

Assignment

- Exercise sheet on temir.org

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