Paper Hunter
Software composition seminar project A2019

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A web plugin for paper collection
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Problem

- Researchers starting a new project
- Systematic literature review
  - aims to provide a complete, exhaustive summary of current literature relevant to a research question
- This procedure is exhausting
Goal

- Create web extension to facilitate this process
- Collection of state-of-the-art
  (searching for published papers)
- Snowballing
  (checking references and/or citations)
Method

- collect paper information from Google Scholar
- basic idea:
  - manually add relevant papers
  - scrape the web for required information
    i.e. mine references/citations of seed of papers
  - collect and store information
Current state

1. select paper
2. fetch website of the paper
3. extract DOI
4. fetch bibtex
5. show gathered information in side panel
Challenges

- finding the right tools
  - e.g. fetch() vs XMLHttpRequest
- making them work
  - e.g. background vs content script
Further steps

- create database to store papers (and relations)
- fetch HTML page(s) of "Cited by" papers
- store those papers (with their relations) in database
- automate process
- download database to local file
- (extend functionalities: multiple collections simultaneously, better UI, collect more data)