1. Data Acquisition - Web Crawler/Scraper

Task

- Select a web source of your own choice for the non-trivial web crawling task.
 - The resource should contain hundreds/thousands of unique pages to crawl.
 - Each page should contain at least:
 - Title e.g. an article title, a product title, ...
 - Main content/text a main text of the article, a description of the product, ...
 - Additional features describing the page information about author, date of publishing, product item parameters, ...
- Identify possible issues with crawling:
 - Explore the robot exclusion protocol, availability of the sitemaps description, ...
 - Identify issues with extraction of relevant information
 - Extraction using machine readable annotations, own set of rules/selectors, automatic detection of the content, ...
- Properly design and implement the extraction task
 - Inputs and outputs of the task
 - Dealing with policies
 - Selection of the language/tools
- Configure the crawler
 - focus on crawling of just one single host (domain)
 - set the crawl interval! Otherwise you can be banned!
 - set the crawl depth
 - user-agent string
 - seed URLs
 - and other settings you consider important.

Instructions for submitting

In your private namespace on EDUX provide the following information:

- Describe the web resource
 - e.g. main URL, extracted information
- Describe possible issues with crawling
 - e.g. policies, ...
- Describe the design of the extraction task
 - Inputs and outputs of the task
- Implement the crawler/scraper
 - You can use any language recommended is the scrapy in Python
- Store data in a structured format
 - e.g. simple JSON format
 - optional: Store data to a database of your choice e.g. mongo, solr, ...

- Provide the link to your implementation
 - You can use: https://gitlab.fit.cvut.cz [https://gitlab.fit.cvut.cz] or https://github.com/ [https://github.com/]
- Provide the link to extracted data
- Comment on
 - issues during the design/extraction
 - ideas for extensions/improvements/future work

Ideas/Motivating Examples

- Crawling articles from specific domain
 - e.g. news articles
- Crawling blog posts
- Crawling tweets
- Crawling e-shop articles
- Crawling discussion/comments
- Extraction of data from social networks
- ...

/mnt/www/courses/MI-DDW.16/data/pages/hw/01/start.txt \cdot Poslední úprava: 2017/02/19 18:08 autor: kuchajar