

Podstawy Inżynierii Wiedzy

Informatyka Stosowana

Wydział Elektrotechniki, Automatyki,
Informatyki i Elektroniki



AGH

Semantic Web

Sprawozdanie 6- 06.06.2012

Marek Walczyk
Monika Krupnik

Grupa: Środa 8:00

2) Semantic MediaWiki – Categories

Student - Paste the wiki page source (markup) in the report.

<http://loki.ia.agh.edu.pl/smw/index.php/Piw2012/group0800/mwalczyk>

[[Category:Student]]

Nazywam się Marek Walczyk, mam 24 lata.

Studiuję Nowoczesną Grafikę Komputerową na AGH.

Jestem w grupie o godzinie 08:00.

University Subject - Paste the wiki page source (markup) in the report.

<http://loki.ia.agh.edu.pl/smw/index.php/AGH-UST/Subjects/Podstawy-In%C5%BCynierii-Wiedzy>

[[category:University subject]]

3) Semantic MediaWiki – Properties

Student - Include the updated wikipage source code (markup) in the report.

<http://loki.ia.agh.edu.pl/smw/index.php/Piw2012/group0800/mwalczyk>

[[Category:Student]]

Nazywam się [[name::Marek Walczyk]], mam [[age:: 24]] lata.

Studiuję Nowoczesną Grafikę Komputerową na AGH.

Jestem w grupie o godzinie [[group::0800]].

University Subject - Include the updated wikipage source code (markup) in the report.

<http://loki.ia.agh.edu.pl/smw/index.php/AGH-UST/Subjects/Podstawy-In%C5%BCynierii-Wiedzy>

[[category:University subject]]

lead by: [[lead by::prof. Antoni Ligęza]]

room: [[room::B1 121]]

duration: [[duration::90]] min

4) Semantic MediaWiki - Inline queries

2) Put the query in the report.

```
{{#ask:[[Category:Student]] [[group::0800]]
|?name
|?age
|?group
|format=ul
}}
```

3) Put the query in the report.

```
{{#ask:[[Category:Student]] [[group::0800]]
|?name
|?age
|sort=name,age
|order=asc,asc
|format=table
|default=0
}}
```

6) Loki - Use Cases

6.2 - Geographic Wiki

Copy the wiki pages sources and paste them into the report.

<http://loki.ia.agh.edu.pl/smw/index.php/Phoenix>

Phoenix is the capital [[category:city|city]] city of [[capital of::states:Arizona | state Arizona]] in USA inhabited by [[inhabited by:=population:=1 825 017]] people.

It's 6th largest city of [[located in::countries:USA | country USA]].

City was [[established in:=year:=1890 | was established in year 1890]].

<http://loki.ia.agh.edu.pl/smw/index.php/USA>

United States of America is a [[category::country]] located in

[[placed_in::continents:North_America | North America continent]]. It's total area is

[[area:=9,826,675 km^2 | 9,826,675 km^2]].

It's inhabited [[inhabited by:=population:=313,704,000 | by 313,704,000 people]]. There is no official language on federal level but their national language [[language::languages:English | is English]].

7) Loki - Semantic Web Standards

Put the query into the report.

Miasta z populacją większą niż 1000000:

```
<pl format="sparql">
PREFIX wiki: <>
SELECT ?city ?population
WHERE {
?city a "city";
wiki:population ?population;

FILTER (?population >= "1000000")
}
ORDER BY DESC(?population)
LIMIT 5
</pl>
```

8) Loki – Reasoning

Put the goal in the report.

Miasta w stanie Arizona:

```
~~NOCACHE~~
<pl goal="wiki_category(X,'city'),wiki_relation(X,'located in','states:Arizona'),write(X),nl,fail"
scope="city">
</pl>
```