

Podstawy Inżynierii Wiedzy

Sprawozdanie 6

Grupa: wtorek 16:00
Bartłomiej Hyży
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Semantic Web Applications: Semantic Wikis

2 Semantic MediaWiki - Categories

2.4. Paste the wiki page source (markup) in the report.

```
[[Category:Student]]  
My name is Bartek Hyży. I am 18 years old. Currently I study applied computer science  
at AGH UST. I belong to group 16:00. The other members of my group are:
```

2.6. Paste the wiki page source (markup) in the report.

```
[[Category:University subject]]
```

3 Semantic MediaWiki - Properties

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

```
[[Category:Student]]  
My name is [[name::Bartek Hyży]]. I am [[age::18|18 years old]]. Currently I study  
applied computer science at AGH UST. I belong to [[group::group1600|group 16:00]]. The  
other members of my group are:
```

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

```
[[Category:University subject]]  
* Lead by: [[lead by::mgr Bobek]]  
* Room: [[room::C3 201]]  
* Duration: [[duration::90]] min  
* Workstations available: [[workstations::20]] units
```

4 Semantic MediaWiki - Inline queries

4.1. Using the inline queries add to your page the list of the students that are members of your group. Put the query in the report.

```
{{#ask: [[Category:Student]] [[group::group1600]]  
| ?name  
| format=ul  
}}
```

4.2. Build another query listing the students from your group. Put the query in the report.

```
{{#ask: [[Category:Student]] [[group::group1600]]
| ?name
| ?age
| sort=age,name
| format=table
| default=brak
}}
```

6 Loki - Use Cases

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

http://loki.ia.agh.edu.pl/lokidev/movies:12_angry_man

~~NOCACHE~~

```
[[category:movie| ]]
```

==== 12 Angry Man ====

```
{{ :movies:12_angry_man.jpg|}}
```

****Title****: [[title:=12 Angry Man]]

****Genre****: [[genre::genres:drama]]

****Production Year****: [[production_year:=1957]]

****Production country****: [[produced_in_country::countries:USA]]

****Screenplay****: [[screenplay::persons:Reginald Rose]]

****Directed by****: [[directed_by::persons:Sidney Lumet]]

****Cast****:

[[main_role::persons:henry_fonda|Henry Fonda]] -

[[main_character::characters:jury_member|Przysięgły 1]]

[[supporting_role::persons:martin_balsam|Martin Balsam]] -

[[main_character::characters:jury_member|Przysięgły 2]]

[[supporting_role::persons:john_fielder|John Fiedler]] -

[[main_character::characters:jury_member|Przysięgły 3]]

****Action time****: [[action_time:=1957]]

****Action place****: [[action_place:=USA]]

****Language****: [[language:=english]]

http://loki.ia.agh.edu.pl/lokidev/persons:henry_fonda

```
[[category:actor| ]]
```

```
{{ :persons:henry_fonda.jpg|}}
```

Name: [[name:=Henry Fonda]]

Full Name: [[full_name:=Henry Fonda]]

Gender: [[gender:=M]]

Birth date: [[birth_date:=1905-05-16]]

Death date: [[death_date:=1982-08-12]]

From: [[is_from::countries:USA]]

****Played main role in ****:

```
{{#ask: [[category:movie]] [[main_role::persons:henry_fonda]] |
```

```
?title |
?production_year |
sort=production_year |
}}
```

7 Loki - Semantic Web Standards

Zapytanie zwracające informacje o wszystkich filmach, w których główną rolę gra Henry Fonda lub aktor spoza Stanów Zjednoczonych Ameryki Północnej.

```
<pl format="sparql">
PREFIX wiki : <>
SELECT ?movie ?title ?production_year ?genre ?director ?screenplay
WHERE {
?movie a "movie".
?movie wiki:title ?title.
?movie wiki:production_year ?production_year.
?movie wiki:genre ?genre.
?movie wiki:directed_by ?director.
?movie wiki:screenplay ?screenplay.
?movie wiki:main_role ?main_role.
?main_role a "actor".
?main_role wiki:is_from ?from.
FILTER( ?main_role = persons:henry_fonda || ?from != countries:USA )
}
</pl>
```

8 Loki - Reasoning

Zapytanie zwracające fajne filmy, tzn. takie, w których akcja ma miejsce poza USA i zostały nakręcone przed rokiem 1980.

```
<pl goal="cool_movie(Movie, Year,
Country),write(Movie),write(' '),write(Year),write(' '),write(Country),nl,fail."
scope="*">

cool_movie(Movie, Year, Country) :-
    wiki_category(Movie, 'movie'),
    wiki_attribute(Movie, 'production_year', Year),
    atom_number(Year, YearInt),
    wiki_attribute(Movie, 'action_place', Country),
    Country \= 'USA',
    YearInt < 1980.
</pl>
```