**Ex. 1:**

Animal ZOO Web site, we want to represent animal species and conrete animals within the ZOO.

Opening hours, animals shows. Representation of animal behaviors, food, body parts ?

He will be a majof tic male

“The breeding bull Tipito, who arrived from Berlin, is going to replace the older male from Amsterdam. The aim is to rejuvenate the herd and its breeding lines which is necessary for the closed groups of animals in captivity,” Miroslav Bobek, the Zoo director, explained. The transport went well; although only a year-and-a-half of age, the bull was calm. “In the following days we will introduce him to our females. Due to his youth he is still rather small, however, his constitution suggests that he will grow to be a majestic bull when full grown,” Barbora Crkvová, a curator of ungulates in the Prague Zoo, added.

**Ex. 2:**

## **Ontology requirement specification**

**Purpose:**

Application ontology for web site of ZOO.

**Scope:**

Talk about species of animals as well as concrete animals, which granularity (not describing internal functioning of animals). Animal are from ZOO.

**Implementation Language:**

OWL2

**Intended end-users:**

- (layman) ZOO visiters

- online ZOO visiters

- ZOO maintenance staff

**Intended uses :**- making labels for animal cages (naming animals, history, species informations)

- navigation within web page

**Ontology requirements:**

 **- functional requirements (grouped CQs, contextual statements, reasoning requirements) :**

 **Indirect statement :**

 What did some person state about the animal ?

 **Location :**

 How was transport of the animal realized within the time and place ?

 From what place was concrete animal transported ?

 Where is the animal located within ZOO ?

 **Meta-properties about animals :**

 To what species does the animal belong ?

 What is the place of origin of some animal ?

 **Properties about animals :**

 What is the age of some animal ?

 What is the name of some animal ?

 What gener has concrete animal ?

 Does the animal have any children ?

 **Contextual Statement (constrants) :**

 Animal cannot belong to multiples species.

 **Reasoning requirement :**

 We want for any 2 animals to get most specific “class” to which they belong.

 **- non-functional requirements :**

 - ontology will be updated by ZOO members

 - translations to Czech and English

**Extracted terms :**

Transporation, Situation, Animal, Place, Time, Statement, Location, Species, Children, Gender, Age, Name, ...