

Zoo animals' nutrition system

Functional requirements: monitor animals' nutrition data.

Non-functional requirements: show animal's current nutrition indicator through the console.

Title: zoo animals' nutrition system.

Actors: animals' feeder, vet.

Scenario: feeder track nutrition indicators on need, and if there is a low level nutrition indication take care of the animals feeding. Vet at times can look on animals' conditions and take useful information regarding their nutrition.

Classes: simulator, abstract animal, concrete species, abstract meal, concrete meal, meal factory, feeder.

CRC Cards:

Animal entity

Responsibilities	Collaborations
Absorb meal	Meal, feeder

Meal entity

Responsibilities	Collaborations
Raise animals' nutrition indicators	Animal, meal factory.

Meal factory

Responsibilities	Collaborations
Create meal of appropriate nutritional value	Feeder

Feeder entity

Responsibilities	Collaborations
Use meal factory corresponding to needed nutritional value	Animal, meal factory.

Class diagram:

