Cairo University Faculty of Computers and Artificial Intelligence Semantic web 2022/2023



University Ontology

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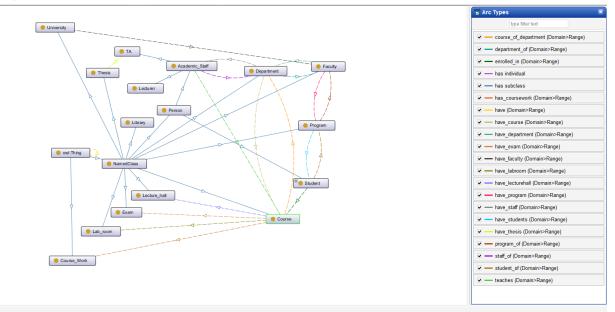
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Problem definition

We want to make an ontology that holds data of universities, this data consists of but not limited to universities, faculties, departments, education programs, courses, staff, students, TAs, lecturers, thesis, and exams.

We need our ontology to be able to answer questions such as who belongs to which department? Which courses do students study? Which courses do the university offer? What faculties are in a university?

Proposed solution



Slots

Name	Description	Domain	Range
address	University address	University	string
capacity	Capacity of a course	Course	Integer
id	ID of a person (Student or staff)	Person	String
Iname	Name of an object	NamedClass	string
salary	Salary of staff	Academic_Staff	integer
course_of_department	Which department the course belongs	Course	Department
	to		
department_of	Department of which faculty	Department	Faculty
enrolled_in	Student enrolled in which course	Student	Course
have	Have relationship between things	Thing	Thing
has_coursework	Course has coursework	Course	Course_Work
have_course	Department has Course	Department	Course
have_department	Faculty has Departments	Faculty	Department
have_exam	Course has Exam	Course	Exam
have_faculty	University has Faculties	University	Faculty
have_labroom	Course has assigned Lab room	Course	Lab_room

have_lecturehall	Course has Lecture halls	Course	Lecture_hall
have_program	Faculty have which programs	Faculty	Program
have_staff	Department have which staff	Department	Academic_Staff
have_students	Programs have which students	Program	Students
have_thesis	TA have which thesis	TA	Thesis
program_of	Program of which faculty	Program	Faculty
staff_of	Works with which department	Academic_Staff	Department
student_of	Student of which program	Student	Program
teaches	Teaches which course	Academic_Staff	Course

Graphical user interface

