## Assignment A4

Define "Glot" a domain-specific language (DSL) for specifying Web Applications (the one developed in HW2 and HW3) on the EMF platform by using one among the following tools/notations:

- EMF
- Emfatic
- OCLInEcore

## Task A4.1

Define a metamodel in Emfatic or EMF for describing your domain (as illustrated during the course) satisfying the following

- 9 metaclasses if the group is made of two candidates
- 12 metaclasses if the group is made of three candidates;

The metamodel must contain

- inheritance,
- relations, i.e., containment, non containment, opposite (optional),
- enumeration types,-attributes;

Each metaclass has at least one attribute or reference;

Singleton or isolated metaclasses are not allowed

For the evaluation, we will consider:

- Metamodel completeness and coverage
- Model consistency and homogeneity
- Coverage of technological assets (containment and bi-directional references, inheritance, enumeration types, custom data types, etc.);

## Task A4.2

Instantiate the metamodel by two concrete instances and make sure that each concept (represented as metaclasses) at the metamodel level can be instantiated in your models.

## Task A4.3

Define metamodel constraints (and "critiques" in the case of EVL), operation, and derived fields in OCL or EVL/EOL

- 3 constraints (critique and constraints) to validate models
- 2 operations
- 2 derived fields (only for OCL)