

SOEN6461: Design Project

Deliverables 3

Yann-Gaël Guéhéneuc

Opening date: 2020/04/06

Submission date: 2020/04/30

Analysis and Design

On the one hand, the PADL meta-model allows describing models of (object-oriented) programs. The POM extension to PADL allows computing metric values of various metrics on PADL models (and their constituents, mostly `padl.kernel.IFirstClassEntity`).

On the other hand, “PlantUML is a component that allows to quickly write : [...] class diagrams” (See <https://plantuml.com/>).

Analyze, design, and implement a Visitor that generates a textual description of any PADL model. The description should include `padl.kernel.IFirstClassEntity` (and possibly all `padl.kernel.IEntity`) as nodes. The arcs between nodes should describes the different relations between entities (see `padl.kernel.IRelationship` and its sub-interfaces). The description should conform to the syntax and semantics of <https://plantuml.com/class-diagram> so that PlantUML can be called on this description. Demonstrate your implementation by providing textual description of some PADL model as well as the corresponding PlantUML-generated class diagrams.

ANSWER HERE