



ROBOTICS – Python Development – Lab 7 - Homework

1. Consider the following attributes specification for the categories of robotic product lines, each robotic product category having the following attributes:

- `OBJECT_TYPE` - a constant string, common to all instances, with the value `"TYPE_CATEGORY"`;
- `id` - an integer id, strictly positive, unique per category;
- `name` - text, must not be empty, alphanumeric, up to 32 characters, unique per category, the name of the category;
- `description` - text, must not be empty, up to 256 characters, the description of the category.

A category may belong to a parent category and a category can be similar to other categories.

Please perform the following:

- Implement the class described by this specification;
- Implement the relations described by this specification;

2. Use managed attributes to implement class attributes data validity checks.