CERC persistence reference manual

Release 0.1.0.4

CERC Next-Generation Cities

Mar 25, 2024

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CERC PERSISTENCE' REFERENCE MANUAL

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1.3 About the PERSISTENCE

This document contains the essential documentation for the CERC PERSISTENCE, a set of classes, factories, and helpers that simplifies the research at urban scale in multiples domains; these components are designed around three central axes, **extensibility**, **code clarity** and **consistency** as we intend to allow domain experts to perform urban scale simulations with multiple programs and enrich the city from several data sources. PERSISTENCE is composed of four main components: **repositories** and **models**.

1.4 Folder structure

```
../cerc_persistence/cerc_persistence/
├── configuration.py
├── db_control.py
├── db_setup.py
├── __init__.py
├── models
│   ├── application.py
│   ├── city_object.py
│   ├── city.py
│   ├── __init__.py
│   ├── simulation_results.py
│   └── user.py
├── repositories
│   ├── application.py
│   ├── city_object.py
│   ├── city.py
│   ├── __init__.py
│   ├── simulation_results.py
│   └── user.py
├── repository.py
└── version.py

3 directories, 18 files
```

1.5 Model Classes

1.5.1 Application

1.5.2 City

1.5.3 CityObject

1.5.4 SimulationResults

1.5.5 User

1.5.6 UserRoles

1.6 Repository Classes

1.6.1 Application

1.6.2 City

1.6.3 CityObject

1.6.4 SimulationResults

1.6.5 User

1.7 Classes

1.7.1 Configuration

1.7.2 DB Control

1.7.3 DB Setup

1.7.4 Repository

CHAPTER

TWO

ADDITIONAL FILES

2.1 Readme

README.md

2.2 License

LICENSE.md

2.3 Code of conduct

CODE_OF_CONDUCT.md

2.4 How to contribute

CONTRIBUTING.md

2.5 Coding style

PYGUIDE.md