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# **CERC persistence reference manual**

*Release 1.0.0.0*

## **CERC Next-Generation Cities**

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## CERC PERSISTENCE' REFERENCE MANUAL

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### 1.2 Contributors

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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**

## 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