# Daro Generic Persistence v1.0 - Software Architecture

Dario A. Palminio

June 4, 2015

 ${\it Licence: Creative Commons by-sa 4.0 } \\ {\it https://creativecommons.org/licenses/by-sa/4.0/}$ 

### Documentation control

Date	Author	Version	Detail
05/05/2015	Dario Palminio	1.0	Creation
04/06/2015	Dario Palminio	1.0	Add info

# Contents

1	Intr	roduction	5	
	1.1	Purpose of the document	5	
	1.2	Audience	5	
<b>2</b>	Architecture			
	2.1	Scope and Context	7	
	2.2	High-level Architecture	7	

4 CONTENTS

## Chapter 1

### Introduction

Generic Persistence is un component (package) that implements CRUD (Create, read, update and delete) into DAO (Data Access Object) Generic Persistence in Java. This component uses Hibernate as an Object-Relational Mapping (ORM) framework, Hibernate is concerned with data persistence as it applies to relational databases (via JDBC). This component was designed to deliver a highly scalable architecture and reuse capability. This is configurable and extensible. This integrate hibernate with Spring application. With Hibernate framework, we provide all the database information using anotations and files. We can provide all the information (data source, JDBC connector and mapping) in an Application Context file (xml) from application that uses this library component.

The advantage of using this library component is the relatively simple and rigorous separation between two important parts of an application that can but should not know anything of each other, and which can be expected to evolve frequently and independently. This library component act as an intermediary between the application and the database persistence (CRUD generic on DAO).

### 1.1 Purpose of the document

The purpose of this document is to show the general architecture of a Java component called "Daro Generic Persistence".

#### 1.2 Audience

Because the document is public license (Creative Commons by-sa 4.0) it was written for anyone interested audience.

# Chapter 2

### Architecture

### 2.1 Scope and Context

The Generic Persistence component consists of a JAR package ("com.daro.persistence.generic") named "DaroGenericPersistence-<VERSION>.jar" that can be used from other applications ("Concrete Persistence Service" or application) by extending the core classes.

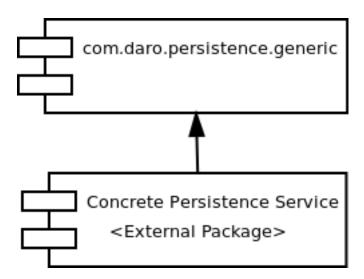


Figure 2.1: Context Diagram - Package Diagram

### 2.2 High-level Architecture

#### Class Diagram

The classes described below belong to the package named "com.daro.persistence.generic".

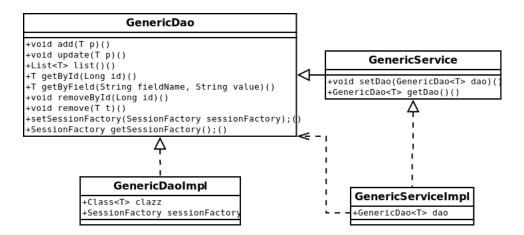


Figure 2.2: General class diagram - high level

9

#### **Example of Client**

Here's a way to use the component. This example corresponds to the component testing.

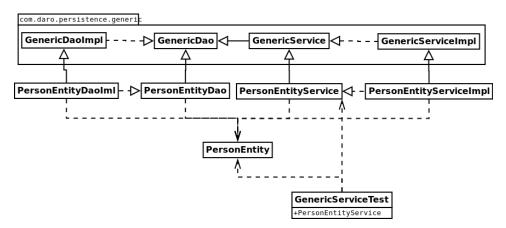


Figure 2.3: Example of how to use - diagram