Objects, Fields and Methods

OpenERP Objects

All the ERP's pieces of data are accessible through "objects". As an example, there is a res.partner object to access the data concerning the partners, an account.invoice object for the data concerning the invoices, etc...

Please note that there is an object for every type of resource, and not an object per resource. We have thus a res.partner object to manage all the partners and not a res.partner object per partner. If we talk in "object oriented" terms, we could also say that there is an object per level.

The direct consequence is that all the methods of objects have a common parameter: the "ids" parameter. This specifies on which resources (for example, on which partner) the method must be applied. Precisely, this parameter contains a list of resource ids on which the method must be applied.

For example, if we have two partners with the identifiers 1 and 5, and we want to call the res_partner method "send_email", we will write something like:

```
res_partner.send_email( ... , [1, 5], ... )
```

We will see the exact syntax of object method calls further in this document.

In the following section, we will see how to define a new object. Then, we will check out the different methods of doing this.

For developers:

- OpenERP "objects" are usually called classes in object oriented programming.
- A OpenERP "resource" is usually called an object in OO programming, instance of a class.

It's a bit confusing when you try to program inside OpenERP, because the language used is Python, and Python is a fully object oriented language, and has objects and instances ...

Luckily, an OpenERP "resource" can be converted magically into a nice Python object using the "browse" class method (OpenERP object method).

The ORM - Object-relational mapping - Models

The ORM, short for Object-Relational Mapping, is a central part of OpenERP.

In OpenERP, the data model is described and manipulated through Python classes and objects. It is the ORM job to bridge the gap — as transparently as possible for the developer — between Python and the underlying relational database (PostgreSQL), which will provide the persistence we need for our objects.

OpenERP Object Attributes

Objects Introduction

To define a new object, you must define a new Python class then instantiate it. This class must inherit from the osv class in the osv module.

Object definition

The first line of the object definition will always be of the form:

```
class name_of_the_object(osv.osv):
        _name = "name.of.the.object"
        _columns = { ... }

name_of_the_object()
```

An object is defined by declaring some fields with predefined names in the class. Two of them are required (_name and _columns), the rest are optional. The predefined fields are:

Predefined fields

_auto
: Determines whether a corresponding PostgreSQL table must be generated automatically from the object. Setting _auto to False can be useful in case of OpenERP objects generated from PostgreSQL views. See the "Reporting From PostgreSQL Views" section for more details.

_columns (required)
: The object fields. See the fields section for further details.

_constraints
: The constraints on the object. See the constraints section for details.

_sql_constraints
: The SQL Constraint on the object. See the SQL constraints section for further details.

_defaults
: The default values for some of the object's fields. See the default value section for details.

_inherit
: The name of the osv object which the current object inherits from. See the object inheritance section (first form) for further details.

_inherits
: The list of osv objects the object inherits from. This list must be given in a python dictionary of the form: {'name_of_the_parent_object': 'name_of_the_field', ...}. See the object inheritance section (second form) for further details. Default value: {}.

_log_access
: Determines whether or not the write access to the resource must be logged. If true, four fields will be created in the SQL table: create_uid, create_date, write_uid, write_date. Those fields represent respectively the id of the user who created the record, the creation date of record, the id of the user who last modified the record, and the date of that last modification. This data may be obtained by using the perm_read method.

_name (required)

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