Minipresentación Modelos en Odoo

Algunas capturas del libro recomendado



Clase Model

```
class Book(models.Model):
    _name = "library.book"
    _description = "Book"
    _order = "name, date_published desc"
```

Campos Modelo

```
class Book (models.Model):
    name = "library.book"
    description = "Book"
    # String fields:
    name = fields.Char("Title")
    isbn = fields.Char("ISBN")
    book type = fields.Selection(
        [("paper", "Paperback"),
         ("hard", "Hardcover"),
         ("electronic", "Electronic"),
         ("other", "Other")],
        "Type")
   notes = fields.Text("Internal Notes")
   descr = fields.Html("Description")
```

Campos Modelo

```
# Numeric fields:
copies = fields.Integer(default=1)
avg rating = fields.Float("Average Rating", (3, 2))
price = fields.Monetary("Price", "currency id")
# price helper
currency id = fields.Many2one("res.currency")
# Date and time fields:
date published = fields.Date()
last borrow date = fields.Datetime(
    "Last Borrowed On",
     default=lambda self: fields.Datetime.now())
```

Campos Modelo

```
# Other fields:
active = fields.Boolean("Active?")
image = fields.Binary("Cover")
# Relational Fields
publisher_id = fields.Many2one(
    "res.partner", string="Publisher")
author ids = fields.Many2many(
    "res.partner", string="Authors")
```

Argumentos

```
name = fields.Char(
    "Title",
    default=None,
    help="Book cover title.",
    readonly=False,
    required=True,
    index=True,
```

Valores defecto funciones

```
def _default_last_borrow_date(self):
    return fields.Datetime.now()

last_borrow_date = fields.Datetime(
    "Last Borrowed On",
    default=_default_last_borrow_date,
)
```

```
last_borrow_date = fields.Datetime(
    "Last Borrowed On",
    default="_default_last_borrow_date",
)

def _default_last_borrow_date(self):
    return fields.Datetime.now()
```

Campos reservados

name or x_name of the Char type: These are used by default as the display name
for the record. But a different field can be used for the display name by setting the
_rec_name model attribute. Non-character field types are also known to work for
this, and a number to text conversion will be forced for this.

Campos calculados

```
publisher country id = fields.Many2one(
    "res.country", string="Publisher Country",
    compute=" compute publisher country",
@api.depends("publisher id.country id")
def compute publisher country(self):
    for book in self:
        book.publisher country id =
          book.publisher id.country id
```

database by adding the store = True attribute. They will be recomputed when any of their dependencies change. Since the values are now stored, they can be searched just like regular fields, and a search function is not needed.

Campos related

Validación

from odoo.exceptions import ValidationError

Menús

Fichero "views.xml":

```
<odoo>
<data>
```

```
<!-- actions opening views on models -->
      <!-- Acciones al abrir las vistas en los modelos
      https://www.odoo.com/documentation/14.0/developer/reference/addons/actions.html
      -->
      <record model="ir.actions.act window" id="lista tareas.action window">
      <field name="name">Listado de tareas pendientes</field>
      <field name="res model">lista tareas.lista tareas</field>
      <field name="view mode">tree,form</field>
      </record>
      <!-- Top menu item -->
      <menuitem name="Listado de tareas" id="lista tareas.menu root"/>
      <!-- menu categories -->
      <menuitem name="Opciones Lista Tareas" id="lista tareas.menu 1"</pre>
parent="lista_tareas.menu_root"/>
      <!-- actions -->
      <menuitem name="Mostrar lista" id="lista tareas.menu 1 list"</pre>
parent="lista tareas.menu 1"
             action="lista_tareas.action_window"/>
```

Permisos



When no access rights are defined on a model, Odoo determines that no users can access the data. It is even notified in the log:

WARNING rd-demo odoo.modules.loading: The models ['estate.property'] have no access rules in module estate, consider adding some id,name,model_id:id,group_id:id,perm_read,perm_write,perm_create,perm_unlink

Access rights are defined as records of the model ir.model.access. Each access right is associated with a model, a group (or no group for global access) and a set of permissions: create, read, write and unlink[2]. Such access rights are usually defined in a CSV file named ir.model.access.csv.

Here is an example for our previous test model:

id, name, model_id/id, group_id/id, perm_read, perm_write, perm_create, perm_unlink
access_test_model, access_test_model, model_test_model, base.group_user, 1, 0, 0, 0

- id is an external identifier.
- name is the name of the ir.model.access.
- model_id/id refers to the model which the access right applies to. The standard way to refer to the model is model_<model_name> , where <model name> is the __name_ of the model with the __replaced by __. Seems cumbersome? Indeed it is...
- group id/id refers to the group which the access right applies to.
- perm read, perm write, perm create, perm unlink: read, write, create and unlink permissions