

OpenERP

How to develop business solutions with Python

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OSS4B

Tiny ERP 2003: Linux only, GUI only (GTK)



Open ERP 2008: Linux + Windows, GUI + Web, Version 5



Open ERP 2013: Linux + Windows + Mac, Web Only, Version 8a

Tiny ERP (2003)



Open ERP (2013)

Belgium

Belgium

India

California

Luxembourg

Hong Kong

+ Partners

ERP Today

Architecture

OpenERP Server

PostgreSQL

OpenERP Web

OpenERP Addons

Frontend (proxy vs wsgi)

How to customize

Anatomy of an addon

addons/

- |- myaddon/
 - |- data/ # demo data
 - |- i18n/ # .po files
 - |- reports/ # printouts
 - |- security/ # groups and permissions
 - |- static/ # openerp web files
 - |- tests/ # unittest2 and yaml tests
 - |- wizards/ # wizards definitions
 - |- workflow/ # workflow definitions
 - |- __init__.py # python pkg initialization
 - |- __openerp__.py # openerp addon attributes
 - |- myaddon.py # python classes

ORM Methods

1. create
2. write
3. unlink
4. browse
5. read
- ...
- n. mymethod

API (v7 / v8)

API v7 - models

```
from openerp import osv, fields
```

```
class my_model(osv.Model):
```

```
    _name = 'my.model'
```

```
    _description = 'My Model'
```

```
    _columns = {
```

```
        'name': fields.char('Name', size=32),
```

```
    }
```

API v8 - models

```
from openerp import scope
```

```
class my_model(Model):
```

```
    name = fields.char('Name', size=32)
```

***** *BACKWARD COMPATIBLE* *****

API v7 - ORM

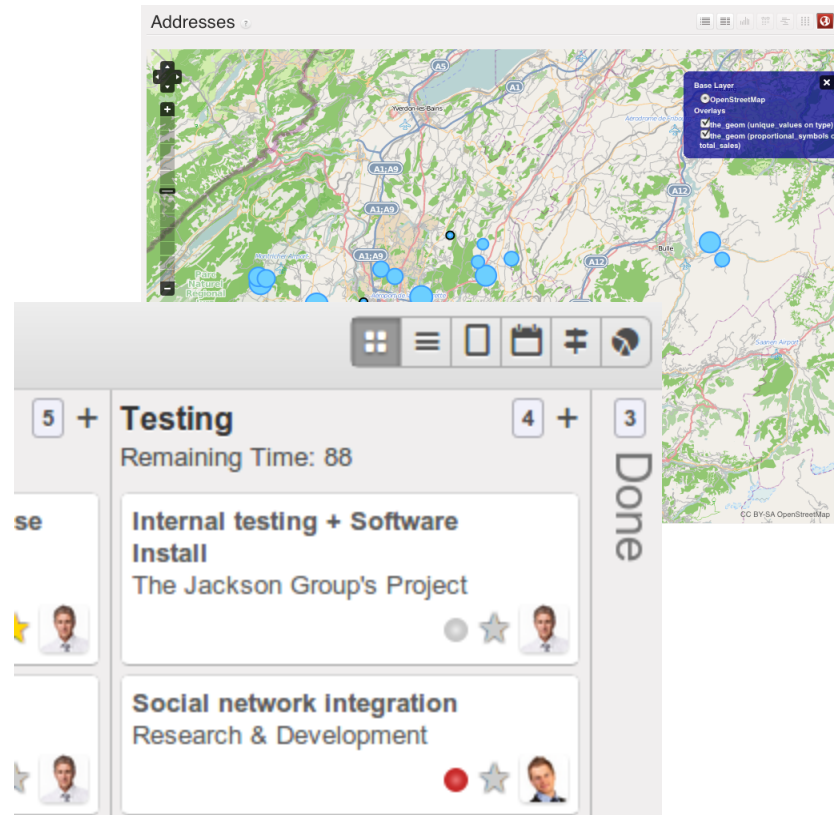
```
def write(self, cr, uid, ids, values, context=None):
    super(my_class, self).write(cr, uid, ids, values, context=context)
    for record in self.browse(cr, uid, ids, context=context)
        if record.increment:
            self.write(cr, uid, [record.id]), {
                'count': record.count + 1,
            }, context=context)
```

API v8 - ORM

```
@multi
def write(self, values):
    super(my_class, self).write(values)
    for record in self:
        if record.increment:
            record.count += 1
```

Views

1. Form
2. Tree
3. Calendar
4. Gantt
5. Graph
6. Kanban
7. Workflow
8. Maps
- ...
- n. Custom



Views

```
<record model="ir.ui.view" id="view_idea_category_form">
  <field name="name">idea.category.form</field>
  <field name="model">idea.category</field>
  <field name="arch" type="xml">
    <form string="Category of Ideas" version="7.0">
      <group>
        <field name="name"/>
      </group>
    </form>
  </field>
</record>
```

LIVE DEMO

RESOURCES

- openerp.com
- doc.openerp.com
- doc.openerp.com/memento
- help.openerp.com
- [#openobject](#) on Freenode
- slideshare.net/openobject
- runbot.openerp.com
- apps.openerp.com

SOURCES

- launchpad.net/openobject-server
- launchpad.net/openobject-addons
- launchpad.net/openerp-web

- launchpad.net/openobject

OPENERP COMMUNITY ASSOCIATION

<http://openerp-community-association.org>

- launchpad.net/ocb-server
- launchpad.net/ocb-addons
- launchpad.net/ocb-web

Q & A

THANKS