

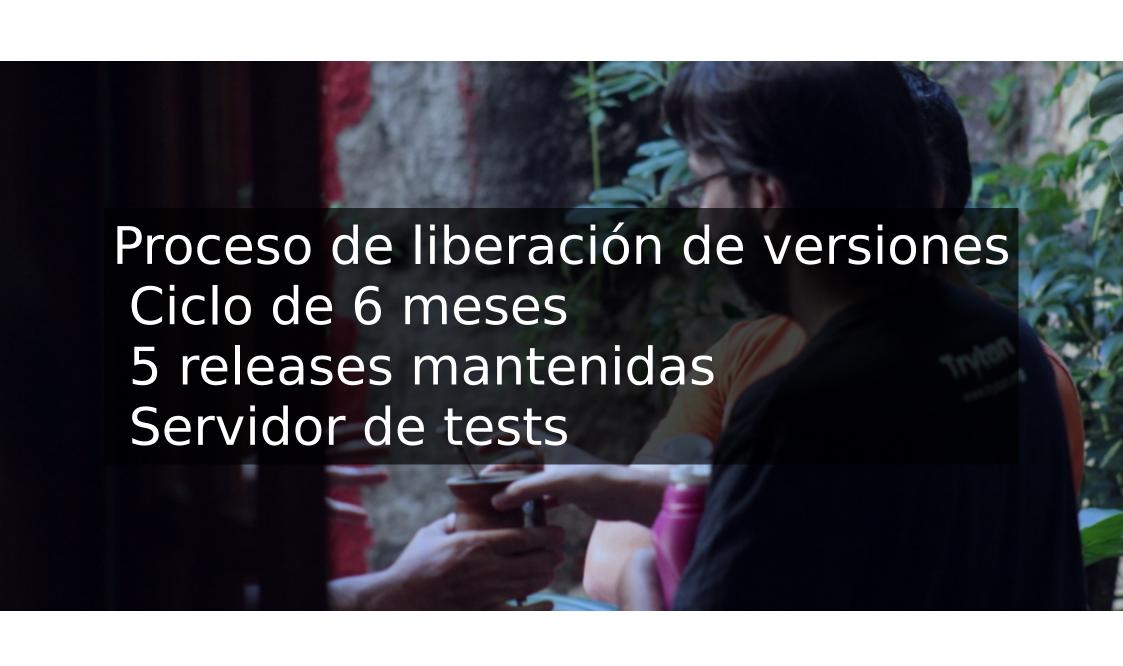




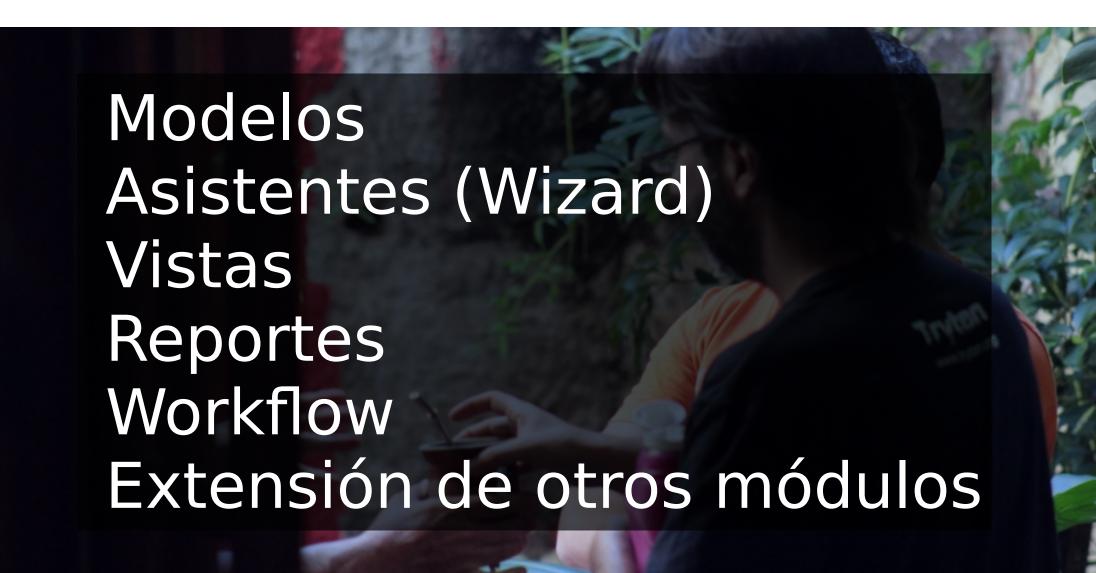
Plataforma de desarrollo de aplicaciones de alto nivel Arquitectura de 3 Capas.

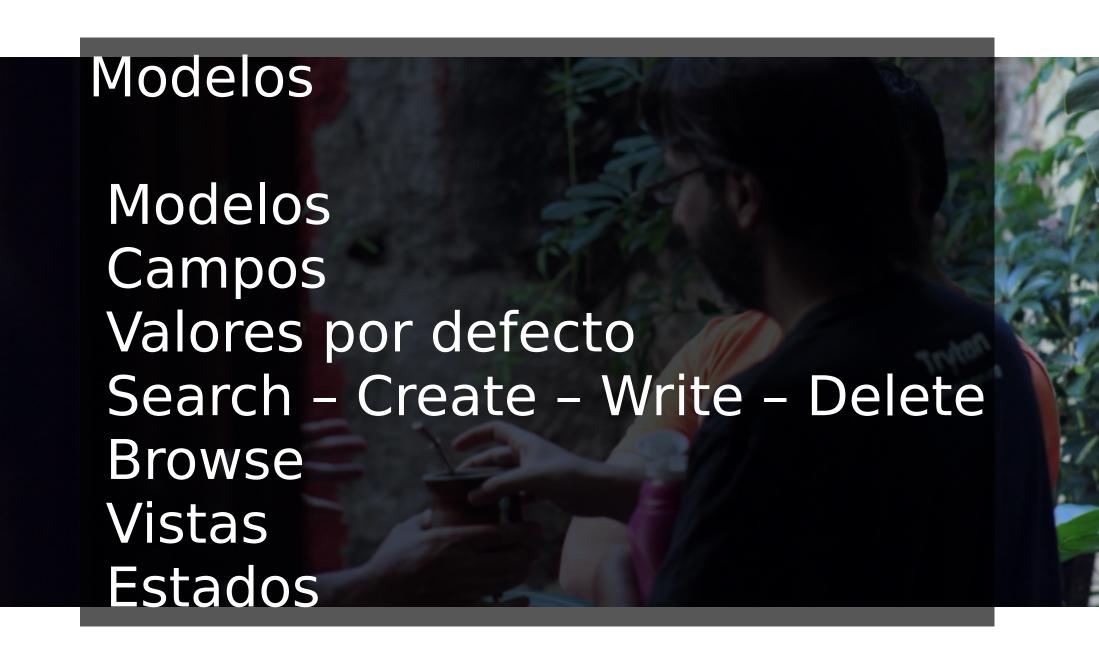
- \* GPLv3
- \* Cliente PyGtk / Cliente Web (sao) Ligero (No tiene logica de negocios)
- \* Servidor Python
- \* Postgresql / SQLite / MySQL





## Servidor Python ORM Creación de esquema Migración automática Workflows Reportes (relatorio) Multi-lenguajes





```
1 from trytond.model import ModelSQL
2
3 class Event(ModelSQL):
4   'Event'
5    name = 'calendar.event'
```

```
class Event(ModelSQL, ModelView):
        'Event'
 3
        name = 'calendar.event'
 4
 5
        calendar = fields.Many20ne('calendar.calendar', 'Calendar',
 6
                required=True)
        summary = fields.Char('Summary')
 8
        description = fields.Text('Description')
 9
        dtstart = fields.DateTime('Start Date', required=True)
10
        classification = fields.Selection([
            ('public', 'Public'),
11
12
            ('private', 'Private'),
13
            ], 'Classification', required=True)
```

```
class Event(ModelSQL, ModelView):
 3
        classification = fields.Selection([
 4
             ('public', 'Public'),
 5
            ('private', 'Private'),
 6
            ], 'Classification', required=True)
 7
 8
        @staticmethod
 9
        def default classification():
            return 'public'
10
```

```
calendar = Calendar.search([
        ('owner.email', '=', 'juan@mycompany.com'),
 3
        1)
 4
 5
    event = Event.create({
 6
        'summary': 'Reunion',
 7
        'calendar': calendar.id,
 8
        })
 9
10
    Event.write(event.id, {
11
        'description': 'Planificar charla PyConAr',
12
        })
13
    Event.delete(event.id)
14
```

```
>>> event = Event(event id)
3
   >>> print event.dtstart
4
   datetime.date(2012, 11, 7)
5
6
  >>> for attendee in event.attendees:
          print attendee.name
8 Han Solo
9 Luke Skywalker
```

```
<record model="ir.ui.view" id="event view tree">
                 <field name="model">calendar.event</field>
 3
                 <field name="type">tree</field>
 4
                 <field name="arch" type="xml">
 5
                     <! [CDATA [
 6
                     <tree string="Events">
 7
                         <field name="calendar"/>
 8
                         <field name="summary"/>
 9
                         <field name="dtstart"/>
10
                         <field name="dtend"/>
11
                     </tree>
12
                     11>
13
                 </field>
            </record>
14
```

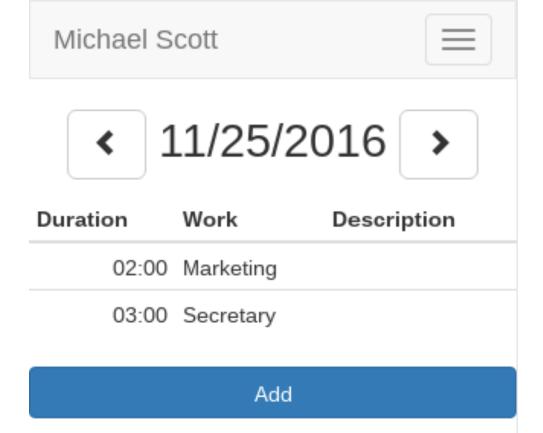
```
<record model="ir.ui.view" id="event view form">
                <field name="model">calendar.event</field>
 3
                <field name="type">form</field>
                <field name="arch" type="xml">
 4
 5
                     <! [CDATA [
 6
                     <form string="Event">
                         <label name="summary"/>
 8
                         <field name="summary"/>
                         <separator name="description" colspan="4"/>
10
                         <field name="description" colspan="4"/>
11
                    </form>
12
                    ]]>
                </field>
13
            </record>
14
```



```
Creando un Party
    3
 4
    Primero instanciamos un nuevo Party:
 5
 6
        >>> Party = Model.get('party.party')
 7
        >>> party = Party()
 8
        >>> party.id < 0
 9
        True
10
11
   Llenamos los campos:
12
13
        >>> party.name = 'ham'
14
15
    Grabamos la instancia en el servidor:
16
17
        >>> party.save()
18
        >>> party.name
19
       u'ham'
20
        >>> party.id > 0
21
        True
```



```
@app.route('/rest/v1/invoices/<record("account.invoice"):invoice>',
           methods=['POST'])
@auth.login_required
@tryton.transaction()
def invoice_reporte(invoice):
    "Crear Reporte"
    InvoiceReport = tryton.pool.get('account.invoice', type='report')
    try:
        type_, file_data, print_, name = InvoiceReport.execute([invoice.id], {})
    except:
        abort(404, u'Nonexistent invoice')
    file_data_encode = base64.b64encode(str(file_data))
    data = {
        'invoice_id': invoice.id,
        'state': invoice.state,
         report name': name,
         report data': file_data_encode,
         report type': mimetypes.types_map['.'+type_], # pasar el mimetype
         report_ext': type_,
    return jsonify({'data': data}), 200
```



Crear una aplicación agregando routes en tu módulo usando Werkzug. Un ejemplo que podemos encontrar: https://addons.mozilla.org/en-US/firefox/addon/tryton-chronos/





## **Tryton Argentina**

https://github.com/tryton-ar

account\_ar: Plan de cuentas de para empresas Argentinas.

account\_coop\_ar: Plan de cuentas para cooperativas de Trabajo.

party\_ar: Integracion del padron AFIP.

account invoice ar: Facturación integrada con ws de la AFIP.

account check ar: Manejo de cheques

account\_voucher\_ar: Comprobantes de pago.

account retencion ar: Retenciones

bank ar: Incorpora los datos de bancos de Argentina.

cooperative\_ar: Gestion de Cooperativa (Recibos, Vacaciones, Socios, etc)

subdiario: Reportes que generan el subdiario

citi\_afip: Informativo de Compras y Ventas

