odoo
PARTNERS

Chapter 15

Advanced views

IN Views modification

Field Attributes

- **Python Code**: Available to all views
- **XML View**: Only apply on specific view

```python
from odoo import fields, models

class TestModel(models.Model):
    _name = "test_model"
    _description = "Test Model"

    name = fields.Char(required=True, readonly=False)
```

Overriding

Field attributes defined in **XML** can **override** the **Python** Code

```xml
...
 <field name="name" readonly="1" />
...
```

Views before

You might see use of *"attrs"* and *"states"* *in some old views*

```
<field name="name" attrs="{'invisible': [('display_name', '=', False)], 'readonly': [('amount', '!=', 0)]}" />
```

```
<button name="action_payslip_cancel" string="Cancel" type="object" states="draft,done,verify" />
```

Views before

You might see use of *"attrs"* and *"states"* *in some old views*

```
<field name="name" attrs="{'invisible': [('display_name', '=', False)], 'readonly': [('amount', '!=', 0)]}" />
```

```
<button name="action_payslip_cancel" string="Cancel" type="object" states="draft,done,verify" />
```

→ not valid since Odoo 17

Fields attributes

3 Simple in view attributes

- **readonly**
- **invisible**
- **required**

Deal with Python booleans expressions

```
<field name="description" invisible="is_partner" readonly="1" required="state in ('draft', 'confirmed')"/>
```

*To work, fields defined in condition **must** also be present in the same view !*

Exercise

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Attributes

Use the `invisible` attribute in `estate.property`:

1) Add a **conditional display** for the header buttons (*'Sold'* and *'Cancel'*).

   Both buttons should disappear once the property is either sold or cancelled.

2) Make the **garden area** and orientation invisible when there is no garden.

NB: Do not use `states` or `attrs -> invisible,readonly,required !`

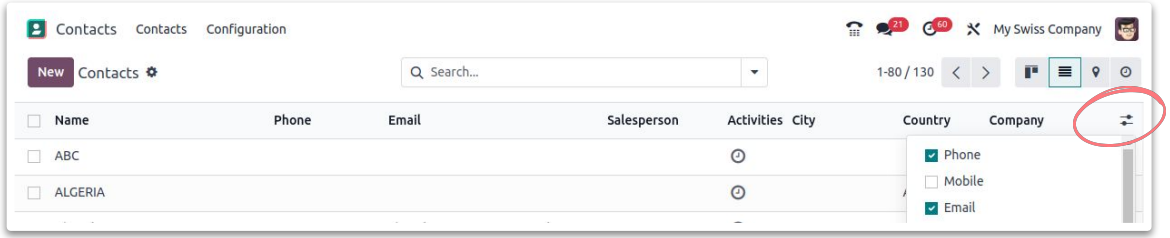
List view attributes

Same simple attributes

- Readonly
- Invisible
- Required

Specific attributes for list views

- ***optional***



- ***column_invisible*** (can use → *parent.xxxx*)

```
<field name="price_description" optional="True" column_invisible="parent.total_amount > 0"/>
```

Use of view attribute can be useful to **prevent** data entry errors, but have **no** level of **security**!

→ There is no server-side check done

Exercise

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Advanced attributes

Use the attributes in `estate.property.offer`:

1) Make the *'Accept'* and *'Refuse'* buttons `invisible` once the offer state is set.

2) Do not allow adding an offer when the property state is *'Offer Accepted'*, *'Sold'* or *'Canceled'*. To do this use the `readonly` attribute.

NB: Do not use `states` or `attrs -> invisible,readonly,required !`

Exercise

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~~Advanced attributes~~

List attributes

Make the `estate.property.offer` and `estate.property.tag` list views editable:

→ inside the **<tree>** tag, use the `editable` attribute

CLICK HERE

Views decorators

Color codes are useful to emphasize records

CLICK HERE

decoration-{$name} attribute in view definition

Can be done:

- On line basis (tree view)
- On field basis

```
<tree decoration-success="is_partner">
      <field name="name"/>
      <field name="is_partner"/>
      ...
</tree>
```

```
<field name="name"/>
<field name="is_low" invisible="1"/>
<field name="budget" decoration-danger="is_low"/>
      ...
```

Exercise

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List decorator

CLICK HERE

Add some **decorations**.

On the `estate.property` list view:

- Properties with an offer received are green
- Properties with an offer accepted are green and bold
- Properties sold are muted
- Add 1 field optional

On the `estate.property.offer` list view:

- Refused offers are red
- Accepted offers are green
- The state should not be visible anymore