

TfFC Using Studio

1. Introduction & Views



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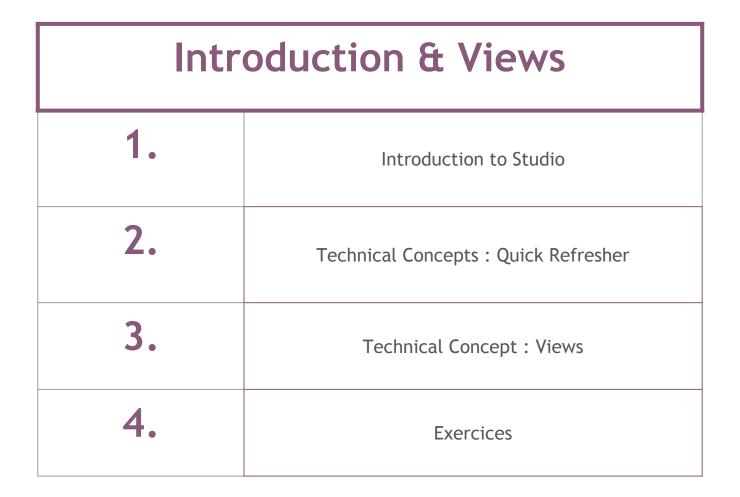
Contents taken from LNA's training.

O. Welcome About this training - WIIFY

- Goal :
 - Show the potential
 - Give a general <u>understanding</u> >< Being exhaustive (and exhausting !)

To make sure you have the tools you'll need in your daily activities







Introduction

Warning !



Elevator Pitch : Studio

- With vs Without Studio
- Test, Phase & Send to Production with only a few clicks (Studio Module)



A few words on PM

Introduction

- The "Quickstart" Methodology
- The "80/20" rule
- Educate your SPOC

HOW LONG CAN YOU WORK ON MAKING A ROUTINE TASK MORE EFFICIENT BEFORE YOU'RE SPENDING MORE TIME THAN YOU SAVE? (ACROSS FIVE YEARS)

	50/DAY	5/DAY	DAILY	U DO THE		YEARLY
1 SECOND	1 DAY	2 HOURS	30 MINUTES	4 MINUTES	1 MINUTE	5 SECONDS
5 SECONDS	5 DAYS	12 HOURS	2 HOURS	21 MINUTES	5 MINUTES	25 SECONDS
30 SECONDS	4 WEEKS	3 DAYS	12 HOURS	2 HOURS	30 MINUTES	2 MINUTES
HOW 1 MINUTE	8 WEEKS	6 DAYS	1 DAY	4 HOURS	1 HOUR	5 MINUTES
TIME 5 MINUTES	9 MONTHS	4 WEEKS	6 DAYS	21 HOURS	5 HOURS	25 MINUTES
OFF 30 MINUTES		6 MONTHS	5 WEEKS	5 DAYS	1 DAY	2 HOURS
1 HOUR		IO MONTHS	2 MONTHS	10 DAYS	2 DAYS	5 HOURS
6 HOURS				2 MONTHS	2 WEEKS	1 DAY
1 DAY					8 WEEKS	5 DAYS

Odoo Studio :

3 Pitfalls to avoid to make your project a success

- Reinventing the wheel
- Customization vs Development
- Not focusing on the added value & the Business Need

I - Reinventing the wheel

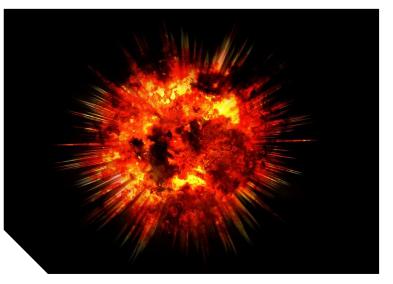
Take a look at what exists... ... More than 45 apps & 400 modules... ... and no need to reinvent them !

Ex : Invoicing & Sales Order



I - Two approaches, Same problem

The 'Big Bang'





The 'Creative'

II - Customization vs Development

"If a picture is worth a thousand words, sometimes a development is worth a thousand customizations !"

II - Customization vs Development

Interface Change VS Business flow

Standard Automation VS Complex Process

Adapting VS Creating

III - Not focusing on added-value

- Is the technical cost worth it ?
 - Cost : time, money, complexity
- Does it impact a lot of users ?
 - Role distribution
- Why?
 - Why? Why? Why?...



III - Not focusing on added-value

- Does it ease the onboarding ?
 - Not Replicating
- Does it impact the business ?
 - Think business not Odoo



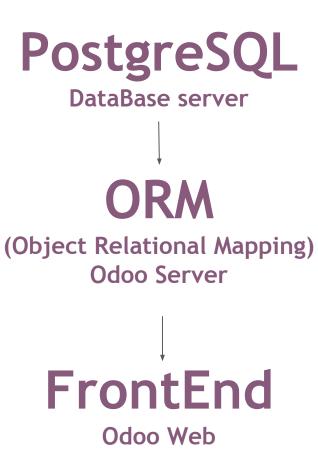
IV - All in all...

-> Studio and its technical limits

-> The limit you should set yourself/your customer

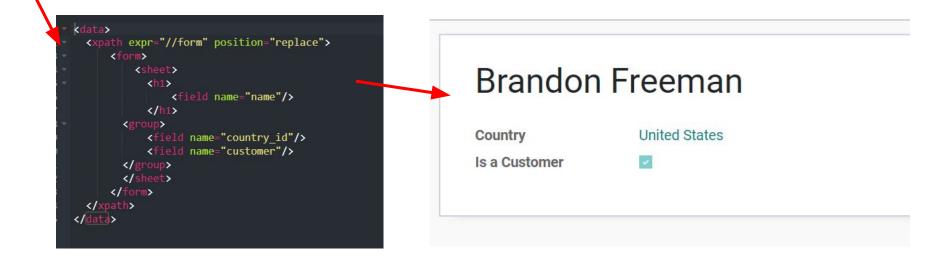


Technical Concepts : Quick Refresher

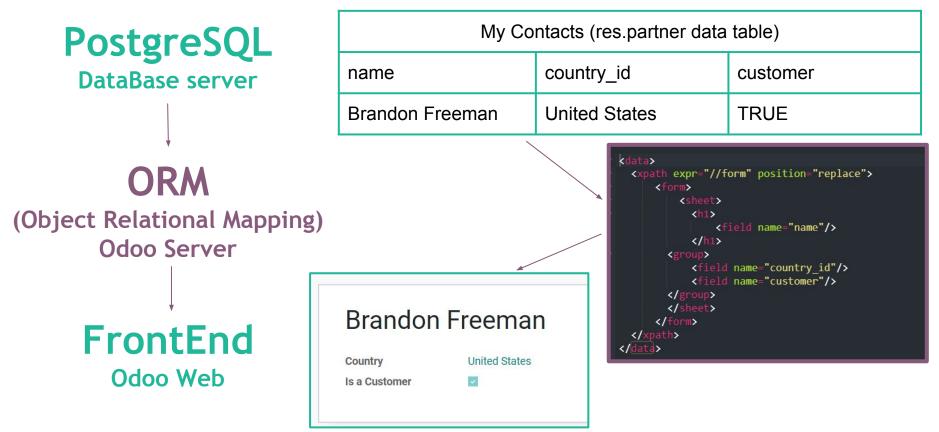


From a database to a UI

My Contacts (res.partner data table)				
name	country_id	customer		
Brandon Freeman	United States	TRUE		



Odoo Database Structure: From a database to a UI



What is a database ?

Comparison with the Excel file

• Sheets are models



id	name	city	email
base.res_partner_1			asusteK@yourcompany.example.com
base.res_partner_address_27		Taipei	
base.res_partner_address_12		Taipei	
base.res_partner_address_2	Joseph Walters	Taipei	joseph.walters@asustek.com

What is a database ?

Comparison with the Excel file

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id	name	city	email
base.res_partner_1			asusteK@yourcompany.example.com
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base.res_partner_address_12		Taipei	
base.res_partner_address_2	Joseph Walters	Taipei	joseph.walters@asustek.com



Each Odoo model is a distinct translation of a business concept. E.g. : An invoice, a sale order line, a customer.

But they can work together and have relationships through their fields

Fields

lustomer	China Export ChinaShanghai52 Chop	Suey street 200000	Confirmation Date 09/21/201 Payment Terms	7 14:43:39		
Order Lines Product	Other Information	Description	Ordered Qty	Unit Price	Taxes	Subtotal
[LAP-E5] Laptop	E5023	Laptop E5023	5.000	2,950.00		14,750.00€
[CONS_DEL01] S	ierver	GrapWorks Software	1.000	173.00		173.00 €
[PROD_DEL02] D	atacard	Datacard	1.000	40.00		40.00 €
[PROD_DEL] Swi	tch, 24 ports	USB Adapter	1.000	18.00		18.00€
					Untaxed Amount:	\$ 14,981.00
					Taxes:	\$ 0.00

Fields are where the data is stored Eg : Name, Status, Price, Weight, ...

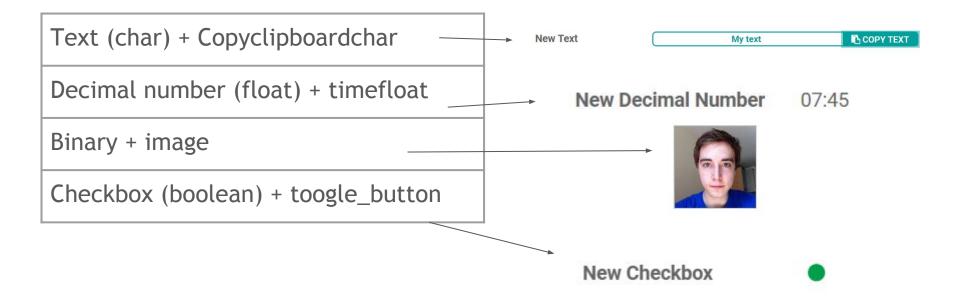
They have different types & features (e.g. : Date, Dropdown menu, ...)

NB : Do not forget the naming conventions ("_id" & "_ids")

Fields types

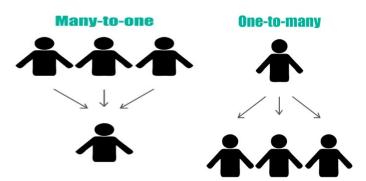
Text (char)	Selection (selection)
Multi-line Text (text)	HTML (html)
Integer number (integer)	File (binary)
Decimal number (float)	Many2One (many2one)
Date (date)	One2many (one2many)
Date & time (datetime)	Many2Many (many2many)
Checkbox (boolean)	

Fields (types) + Widgets



Relational fields

Many2One & One2Many

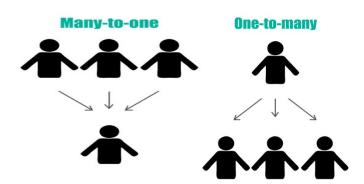


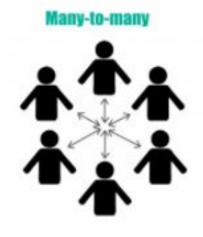
- M2O -> Many records pointing towards another one.
- O2M -> Does not exist "per se", reverse search (M2O)

Relational fields

Many2Many & One2One

- M2M : Many records pointing towards many records... And vice versa !
- O2O : Does not exist in Odoo, use M2O instead





Stored and not stored

- Is this information recorded in the DB or not?
 - \rightarrow YES: Stored
 - \rightarrow NO: Not stored
- All newly created fields are stored except the computed / related fields
 - \rightarrow To store them



Stored and not stored

- What if the field is not stored?
 - \rightarrow It's not searchable
 - \rightarrow No Group by possible (not available in the pivot view)
 - \rightarrow Not usable in record rules (to be developed during the Access Rights session)
- Why should I store an information?
 - \rightarrow Performance

⇒ If you have any doubt, you can always ask to a technically skilled colleague

Menu items

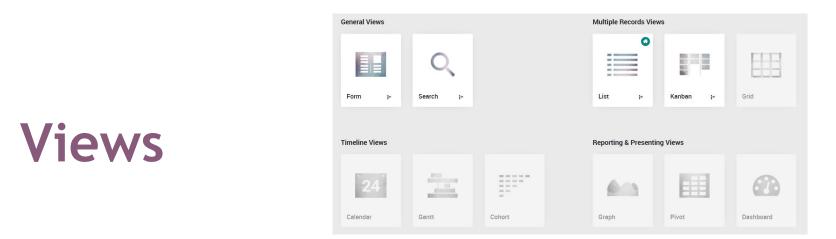
Sales Orders To Invoice Products Reporting Configuration

• Menus allow to navigate through the differents models





Technical Concepts : Studio & Views



- Views are the interface that allows us to see the data in different ways (a graph, a form, a calendar, ...)
- Different view types exist and can be grouped in 'families'
- The language used to create those views is (mostly) XML
- They're stored in the database (Debug -> Technical -> Views)

Basics of XML Entity

- Some characters have special meaning in XML
- If you need to use them outside their initial use in the XML syntax, it will generate an error.
- To avoid these errors, replace the initial character with an **entity reference**

<message>salary < 1000</message>

<message>salary < 1000</message>

Entity reference	Character	Meaning
<	<	Less than
£gt;	>	Greater than
&	£	Ampersand
'	ć	Apostrophe
"	"	Quotation mark

Basics of XML XML & Markup

- What does XML means?
- eXtensible Markup Language.
 - \rightarrow It's a markup language just like HTML.

Markup structure

- All XML elements must have a closing tag.
- XML tags are case sensitive

This is a paragraph.

```
<Message>This is incorrect</message>
<message>This is correct</message>
```

• XML elements must be properly nested

<i>This text is bold and italic</i>

• XML can be commented <!-- This is a comment -->



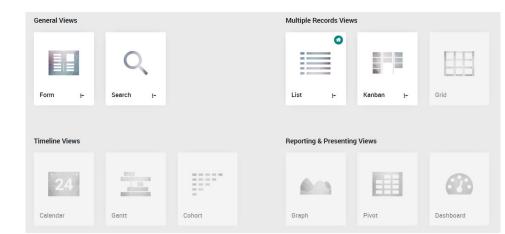
- What is an XML element?
- It's everything from the element's start tag to the element's end tag.
- An element can contain:





- What is an XML attribute?
- XML elements can have attributes that qualify them.
- XML attribute values must be quoted

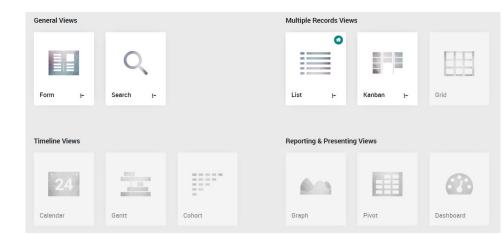
<note date="12/11/2007">
 <to>Tove</to>
 <from>Jani</from>
 </note>



Views

How should you choose ?

- Different usages
 - The Search view support all views and allow to filter/group/search
 - Gantt is for forecasting
 - Pivot, Graphs, ... are for reporting purposes
 - Grid is either for mass creation or reporting



Views

How should you choose ?

- Different usages
 - Form views are used to create / edit complex records
 - List views to either provide overviews, look for records or edit simple records
 - Kanban view are built to support flows

General constraint :

A view is always based on a single model

- Contacts
- Opportunities
- Employees
- ...

Except...?

Relational fields :

Example of a view showing several models

SO007

Customer Gemini Furniture 1128 Lunetta Street Tampa FL 33634 United States		a Street 3634	<pre> <field name="partner_id"></field></pre>
Quotation Temp Order Lines	Optional Products	Other Information	<pre> <pre><page name="order_lines" string="Order Lines"></page></pre></pre>
Product		Description	state states "Cales Order Lines" editable "batter"
[FURN_6666] A	Acoustic Bloc Screens	Acoustic Bloc Panel	<pre><tree editable="bottom" string="Sales Order Lines"></tree></pre>
[FURN_8999] Three-Seat Sofa		Three-Seat Sofa	<pre><field name="gty delivered"></field></pre>
[FURN_8888] Office Lamp		Datacard	<pre><field name="price total"></field></pre>
[FURN_7777] Office Chair		USB Adapter	

<form string="Sales Order" class="o_sale_order">

">

View inheritance and Studio

- Standard views and updates
- Creating Inherited views (xpaths)
- Studio

View Inheritance

• How an inherited view looks like?

• A serie of change to be applied on the initial one.

• Main vs. Extension

- A view can be modified by inherited view.
- In our case, we'll always build the inheritance by creating "Extension" views based on a Main one

• Sequence

- Odoo applies changes in a view respecting the sequence.
 - \rightarrow The bigger the sequence is, the later your change occurs in the view

• Change localization (WHERE)

- XPATH vs. element
- Keep it as simple as possible

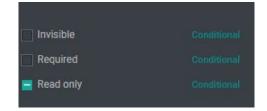
• Positions (WHAT)

- Before
- After
- Inside

Attributes

How to make a view dynamic

- The same field cannot have different behaviors => Solution ?
- Clearer UI
- Enforce a process (! user frustration)



Attributes

A whole set of other tools

- Domains
- Default values
- Context
- Placeholders
- ...

Main Attributes

- name
- readonly
- invisible
- groups
- attrs
- widget
- for (only for label)
- editable (only in tree view)
- domain
- placeholder

Attributes : A few examples

- Sale orders
- Attachment

ield name="validity_date" attrs="{'invisible': [('state', 'in', ['sale', 'done'])]}"/>

<field name="company_id" readonly="1"/>

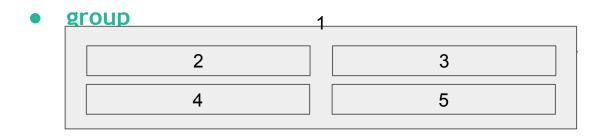
• Studio conditional attrs

Odoo Studio Guided Tour

- Menus
- Views and options
- Fields and options (new and existing)
- => Explore

Main Elements in Odoo





<proup id="1"> <proup id="2"> </proup id="2"> <proup id="3"> </proup id="3"> <proup id="4"> </proup id="4"> </proup id="5"> </proup id="5"> </proup>

	Main E	Pipeline CREATE IMPORT New + Qualified	nts	in O	do	0	
•	button<i>Display a button.</i>		Stage Name New				
•	separatorGive a name to a sect	ion.		Team Folded in Pipeline		•	
•	 notebook Display a sub-section 	Plan to buy 60 keyboards and mouses \$ 40,000.00 at 10 % Customer Expected Closing 11/21/2017 Email willmac@rediffmail.example.com Phone					
•	 Display a tab in a not 	ebook.	Salesperson Sales Channel	Administrator Europe Contact Information	Priority Taga	★ ☆ ☆ Product	



Exercises

Industry 2

Business Need :

PLZ Pick-up the Phone© is a company active in the telemarketing industry. The main app they will work with is the CRM. For reporting as well as micro-management purposes, they would like to keep track of every call made by their employees.

The information they need are : WHO, WHEN, LENGTH OF THE CALL, STATUS, COMMENT The different STATUS are : *Sold, Asked to call back, Fake number, Refused* Of course, registering a new call should not erase the information from the previous one !

Functional Analysis :

On the opportunity :

- Create a new model "call report" and link it to opportunities
- Add a data table in a new tab which users can record their calls (date, length, status, comment) line by line
- Users should be able to edit/create their reports on those lines
- A menu item should allow the managers to access all "reports" and to group/filter them

Technical Analysis : Feasible with Studio

Industry 3

Business Need :

His&Her© is a fashion company that will heavily use the Mass Mailing module to promote their new catalogs. As such, they need to be sure of their customer gender (different campaigns). Moreover, they will heavily use titles in their email openings (ex : Miss, Mister, ...) and would like to clearly distinguish those between genders (to avoid : Dear Miss John Smith).

For them, the titles are ordered in three categories (male, female, not defined).

Functional Analysis :

On the contacts

- Allow users to select a gender
- Make sure users can only select a title that matches the gender of the contact
- Both field should be mandatory as otherwise users won't fill them in
- Make sure users do not create new titles on the fly

Technical Analysis : Feasible with Studio

Don't forget, if you ever have a question...





Thank you.

#TfFC