



Task for Odoo developer

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Tbilisi, Georgia, 1404/2023

Small Guide

You can find a short description of each task.
Also you can find some questions that arose while working on some tasks.

You can find a demo database backup attached to mail.

The Questions are underlined

Thank you.

Task 1

Give Customer to Sign Up for free

Add in registration and account form mobile field that will update user data in this situation res partner.

*It is not mandatory field in account details but I can make it

Your Email

a.zurabashvili@icloud.com

Your Name

Ana

Mobile

557578985

Password

...

Confirm Password

...

Sign up

Already have an account?



Home Contact us

🏠 / Details

Name

Ana

Email

a.zurabashvili@icloud.com

Company Name

VAT Number

Phone

Mobile

557578985

Street

City

Zip / Postal Code

Country

Country...

Confirm →

☒ Individual ☐ Company

Ana

Company Name...

Contact c

Street 2...

Tbilisi

Georgia

State

ZIP

Tax ID ? e.g. BE0477472701

Job Position ? e.g. Sales Director

Phone ? c

Mobile ? 557578x

Email ? a.zurabashvili@icloud.com

Website ? e.g. https://www.odoo.com

Title ? e.g. Mister

Tags ? e.g. "B2B", "VIP", "Consulting", ...

Task 2

Add new fields to product (product.product) screen:

Customers / Deco Addict / Invoices / INV/2023/00003 / [FURN_8999] Three-Seat Sofa

Action

1 / 1 < >

New

Send message

PRINT LABELS

0
Extra Prices

1.00 Units
Sold

Product Name ?

☆ [FURN_8999] Three-Seat Sofa

Three-Seat Sofa

Can be Sold ?

Can be Purchased ?




General Information

Sales

Purchase

Accounting

Customers / Deco Addict / Invoices / INV/2023/00003

/ [FURN_8999] Three-Seat Sofa    Unable to save

PRINT LABELS

Product Name ?

☆ [FURN_8999x] Three-Seat Three-Seat Sofa

Can be Sold ?

Can be Purchased ?

General Information

Sales

Purchase

Accounting

Product Type ?

Consumable

Sales Price ?

\$ 1,500.00

Invoicing Policy ?

Ordered quantities

Customer Taxes ?

Consumables are physical products for which you don't manage the inventory level: they are always available.

Cost ?

\$ 1,000.00

You can invoice them before they are delivered.

Internal Reference ?

FURN_8999x

Honestus Code ?

Honestus Price ?

0.00

Barcode ?

Product Category ?

All / Saleable / Office Furniture

Product Tags ?

Additional Product Tag ?

Tag Name

Color


Add a line

0

Extra Prices

1.00

Units Sold



Send message

Log r

OdooBot - 10 minutes available.

Product Variant created.

Sales Price ?

\$ 1,500.00

Customer Taxes ?

Cost ?

\$ 1,000.00

Internal Reference ?

FURN_8999

Honestus Code ?

Honestus Price ?

0.00

Barcode ?

Product Category ?

All / Saleable / Office Furniture

Product Tags ?

Additional Product Tag ?

Tag Name

Color

Add a line

Task 3

Update Order/Quotation report:

There was not printed default code in a product column. Maybe you mean like rec_name, anyways, I put this logics almost everywhere where I have found it.

And the prices is separated by /.

If I am wrong and didn't get the idea of the task please let me know. I will fix it.

I know the visual part of it is not great, but the logic is done.

[Code] Description		Quantity	Unit Price /Honestus Price	Taxes Amount		
[FURN_6666] Acoustic Bloc Screens	[FURN_8999] Three-Seat Sofa	[FURN_8888] Office Lamp	[FURN_7777] Office Chair	1.00 Units	18.00 / - / -	18.00 €
[FURN_6666] Acoustic Bloc Screens	[FURN_8999] Three-Seat Sofa	[FURN_8888] Office Lamp	[FURN_7777] Office Chair	1.00 Units	18.00 / - / -	18.00 €
[FURN_6666] Acoustic Bloc Screens	[FURN_8999] Three-Seat Sofa	[FURN_8888] Office Lamp	[FURN_7777] Office Chair	1.00 Units	18.00 / - / -	18.00 €
[FURN_6666] Acoustic Bloc Screens	[FURN_8999] Three-Seat Sofa	[FURN_8888] Office Lamp	[FURN_7777] Office Chair	1.00 Units	18.00 / - / -	18.00 €
Total						1,706.00 €

This is a preview of the customer portal. → Back to edit mode

🏠 / Sales Orders / Sales Order S00007

1,706.00 €

Download Print

Sales Order S00007

Pricing

History

Salesperson



Admin
+1 555-555-5555

Send message

Powered by odoo

Sales Order S00007

Order Date: 04/14/2023

Invoicing and Shipping Address:

Gemini Furniture, Soham Palmer
317 Fairchild Dr
Fairfield CA 94535
United States

Pricing

Products	Quantity	Unit Price	Taxes	Amount
[FURN_6666] Acoustic Bloc Screens	5.00 Units	295.00		1,475.00 €
[FURN_8999] Three-Seat Sofa Three Seater Sofa with Lounger in Steel Grey Colour	1.00 Units	173.00		173.00 €
[FURN_8888] Office Lamp	1.00 Units	40.00		40.00 €
[FURN_7777] Office Chair	1.00 Units	18.00		18.00 €

Task 4

Create report not pdf.

I have a lot of questions about this task.

There is mentioned that the report is not pdf and also it needs to be opened via menu item under the sales reports. So, I have decided to create something that is so alike to the sales report.

If I have done a different thing, (there was needed to create sth on 'qweb-html', 'qweb-text', or even using dashboard) let me know

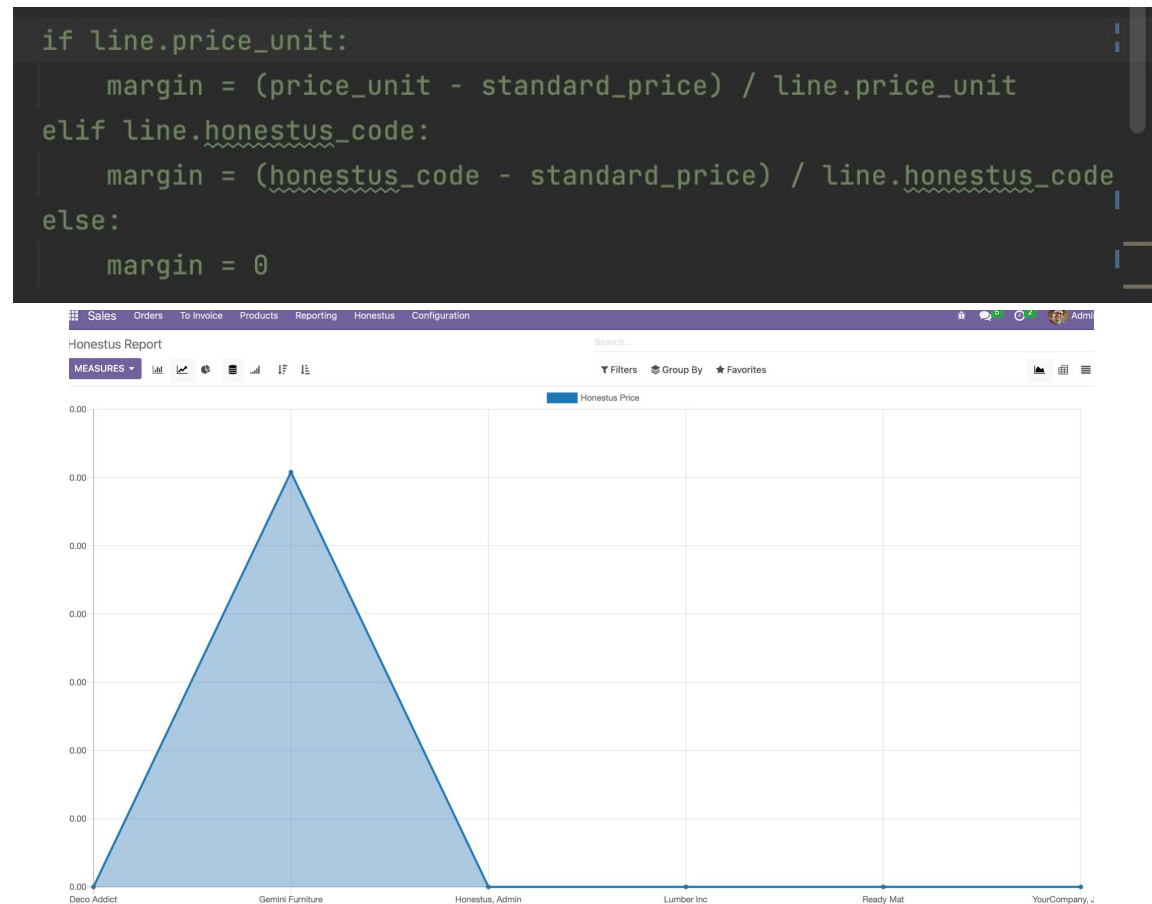
We can't do math operations with a char field so, I have decided to change logics by a little

Also we can't group by default in some views, so there is not every view grouped by customers.

In previews odoo versions I have used abstract models for this kind of reports.

I have not finished logics about margin and I do have questions about it.

Should I calculate standard cost and how can Calculate margin with char fields like this ?



Task 4

SalesOrdersTo InvoiceProductsReportingHonestusConfiguration

Honestus Report

Customer xSearch...

FiltersGroup ByFavorites

Deco Addict

Gemini Furniture

Lumber Inc

Ready Mat

YourCompany, Joel Willis

Honestus Report

MEASURES

	Total						
	Deco Addict	Gemini Furniture	Honestus, Admin	Lumber Inc	Ready Mat	YourCompany, Joel Willis	
	Honestus Price	Honestus Price	Honestus Price	Honestus Price	Honestus Price	Honestus Price	Honestus Price
Total		304.00					304.00
Deco Addict							
Gemini Furniture		304.00					304.00
Honestus, Admin							
Lumber Inc							
Ready Mat							
YourCompany, Joel Willis							

Honestus Report

FiltersGroup ByFavorites

1-6 / 6

Customer

Order #

Deco Addict (4)

Deco Addict

Deco Addict

Deco Addict

Deco Addict

Gemini Furniture (30)

Honestus, Admin (1)

Lumber Inc (1)

Ready Mat (4)

YourCompany, Joel Willis (5)

Field: partner_id

Model: honestus.report

Type: many2one

Context: {}

Domain:

Modifiers: {"readonly":true}

Relation: res.partner

S00001

S00001

S00001

S00001

S00005

Task 5

Task 5. Solution Design:

Customer is facing following problem: when processing xml file via cron-job, cron-job fails, doesn't process all lines (connection timem-out, CPU time limit exceeded). File is very big and increasing limit_time_real_cron or other params on odoo.config, doesn't solves the issue.

The cron-job is creating/updating products from xml file.

Xml could look like this, but with much more <book> tags: [https://docs.microsoft.com/en-us/previous-versions/windows/desktop/ms762271\(v=vs.85\)](https://docs.microsoft.com/en-us/previous-versions/windows/desktop/ms762271(v=vs.85))

- Write a solution design, how you would fix this issue.
- Provide estimation for development

Should I write small example how I solve this problem?

Task 5

First of all, I would like to have an opportunity to see the problem. It would be helpful to decide much more optimized version. The useful thing would be to see how the cron is written and how the xml data is attached to the cron. If there was a possibility to change xml formatted file with another format, such as CSV or JSON it would be more optimized due to its faster and easier.

Before I would start to do something, I mean coding, I would surf the google and search some optimization, xml parsing and some good practices.

However, this problem is only for discussion. Isn't it ?

Task 5

In order to resolve the problem, we need to optimize the code that reads and interpret XML File. There is potential solving method.

The book objects in the xml have primary field (mostly string and float) we know how each field looks like. So in my opinion if we know and the fields are primary, it could be more optimized to write our own xml parser. Existing xml parser is heavy, in spite of it's recommended to use one, we can decide not to use it.

1. Split the large XML file into smaller chunks for processing. We can use a library like lxml or ElementTree to parse (or do the one I have mentioned previously) in the XML file and divide it into smaller parts.
2. Every chunk should be released into different threads Process to improve the performance. (use multi threads)
3. We can store/update data directly. We can use Odoo ORM to interact with the database and store the products. Or like I said before the book contains primary data we can use sql queries to make process more optimized (it's faster) This will improve performance and prevent the system from running out of memory.
4. During the processing of the data, I would add implementation of error handling and logging mechanisms to monitor the processing and detect any issues that might arise. And it's depended on to business logic when we want to commit this data storing process, in my opinion I would right commit code in the end of the process (every thread finishes). And if there would be given demand to update data in the system beside failure I would skip this object and update remaining ones.

If there would be given demand to update data if there is any problem I would write code to reply this cron.

If there is any error rollback.

Task 5

Estimation for development will depend on the complexity of the existing code and the business logics requirements of the project. However, Approximate estimate for the implementation can be:

1. Splitting the large XML file and writing parser: 8-12 hours
2. Implementing a multi-threading: 10-12 hours
3. Error handling and logging: 10-more hours
4. Code optimization: 8-more hours

I have given max hours on each process. The total estimated would be around 40-65 hours. (it's not sum but there could be some unplanned situations) more or less

Thank you.

Github: <https://github.com/annzzu/honestus>

Thank you.