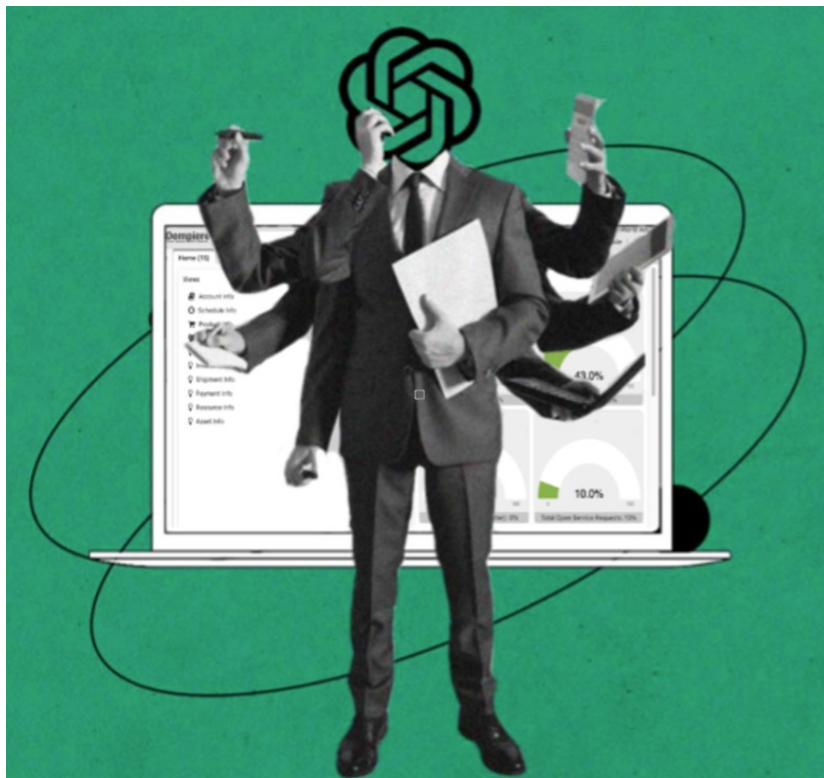




chatGPT

integration plugin



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1 Background

Since the chatGPT (chat Generative Pre-trained Transformer) is very friendly to the iDempierre ERP Business Suite, I had the idea to write this plugin, which can help improve both the description of products/comments and the description of system objects, such as Menu, Window, Forms and others.

For example, I asked about the iDempiere.



What is iDempiere ERP Business Suite?



iDempiere ERP Business Suite is an open-source enterprise resource planning (ERP) software solution. It is a comprehensive business management system that helps organizations streamline and integrate their core business processes. iDempiere combines various modules and functionalities to support key areas such as finance, sales, procurement, manufacturing, human resources, project management, and more.



iDempiere is built on open-source technologies and follows a modular architecture, allowing businesses to customize and extend the system to meet their specific requirements. It provides a range of features, including accounting, customer relationship management (CRM), supply chain management, inventory management, reporting and analytics, workflow automation, and document management.

The system enables efficient management of various business operations, facilitates data sharing and collaboration across departments, and provides real-time visibility into key business metrics. It supports multi-organization and multi-currency capabilities, making it suitable for global organizations or companies with multiple subsidiaries.

iDempiere ERP Business Suite is known for its robustness, scalability, and flexibility. It has an active community of developers and users who contribute to its ongoing development and improvement. As an open-source solution, iDempiere offers cost advantages compared to proprietary ERP systems while providing extensive functionality to support the complex needs of modern businesses.

Regenerate response

Send a message



Free Research Preview. ChatGPT may produce inaccurate information about people, places, or facts. [ChatGPT May 24 Version](#)

P.S. This is a Alfa version for testing and proposals.



2. Install plugin

2.1 Download and Install plugin

You can download the chatGPT plugin for immediate use in your latest iDempiere from <https://github.com/pshepetko/org.idempiere.chatgpt/tree/master/downloads/>

In Apache Felix Web Console: 1) Install plugin 2) Select file 3) Install and Update

As result must be Status=Active

Apache Felix Web Console Bundles



OSGi Web Console Log out

Bundle information: 358 bundles in total, 68 bundles active, 16 active fragments, 240 bundles resolved, 1 bundles installed

chat ✖ Apply Filter Filter All

Reload

Install/Update...

Refresh Packages

<div>Id</div>	<div>Name</div>	<div>Version</div>	<div>Category</div>	<div>Status</div>	<div>Actions</div>
375	<div>chatGPT plugin (org.idempiere.chatGPT)</div>	10.0.0.202306121151		Active	<div><div>▢</div><div>↻</div><div>⬇</div><div>🗑</div></div>

✖ Apply Filter Filter All

Reload

Install/Update...

Refresh Packages

Bundle information: 358 bundles in total, 68 bundles active, 16 active fragments, 240 bundles resolved, 1 bundles installed

After that you can use this functionality.

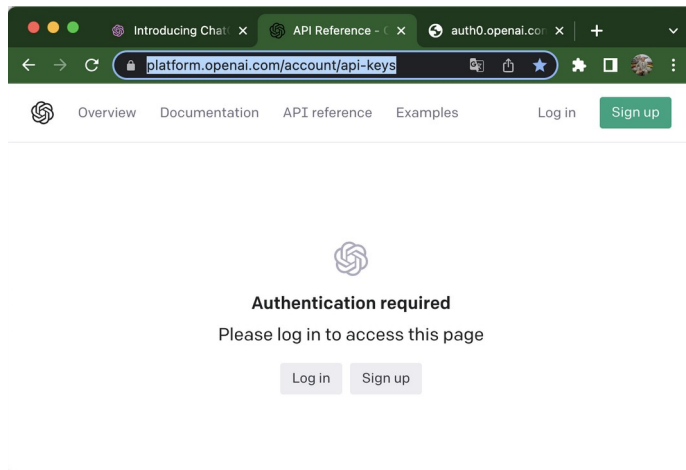
Some functions is not flexible and only for testing and improvement.



3. chatGPT Setting

3.1 chatGPT API Key generate

Go to the link <https://platform.openai.com/account/api-keys> and Sign up or Log in (if you have account).



Create your account

Please note that phone verification is required for signup. Your number will only be used to verify your identity for security purposes.

Email address

Continue

Already have an account? [Log in](#)

OR



Continue with Google

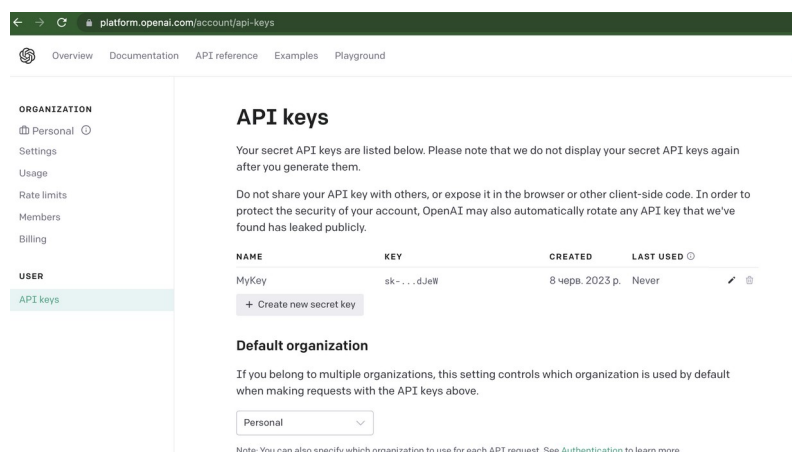


Continue with Microsoft Account



Continue with Apple

After that you can Create new secret key



You must copy your Key because service do not display your secret API keys again after you generate them.

You have trial period and \$5 for testing.



3.2 Add parameter to System Configuration

For the next step you can add this key to System configurator for your clients which you want update.

Name : chatGPT_API_Key

The screenshot shows the iDempiere System Configurator interface. The user is logged in as SuperUser@GardenWorld.HQ/GardenWorld Admin. The configuration is for the tenant 'GardenWorld' and organization '*'. The parameter name is 'chatGPT_API_Key' and its description is empty. The configured value is 'sk-1RLB...RIFZC'. The entity type is 'chatGPT' and the configuration level is 'Client'. The 'Active' checkbox is checked.

Field	Value
Tenant*	GardenWorld
Organization*	*
Name*	chatGPT_API_Key
Description	
Configured Value	sk-1RLB...RIFZC
Entity Type*	chatGPT
Configuration Level	Client
Active	<input checked="" type="checkbox"/>

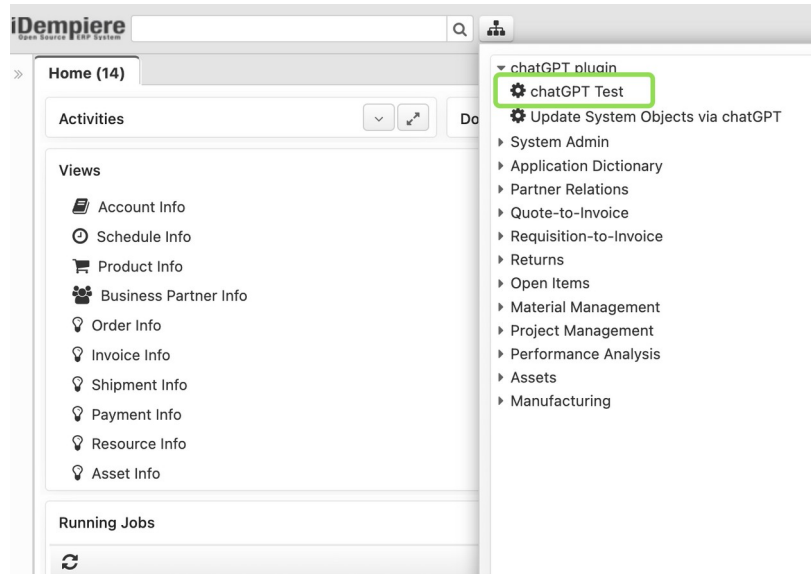
If you need to update System objects such as Menu, Windows, Forms, Info Windows etc. you must add this key for System client too.

The screenshot shows the iDempiere System Configurator interface. The user is logged in as SuperUser@System.*/System Administrator. The configuration is for the tenant 'System' and organization '*'. The parameter name is 'chatGPT_API_Key' and its description is empty. The configured value is 'sk-1RLB...RIFZC'. The entity type is 'chatGPT' and the configuration level is 'Client'. The 'Active' checkbox is checked.

Field	Value
Tenant*	System
Organization*	*
Name*	chatGPT_API_Key
Description	
Configured Value	sk-1RLB...RIFZC
Entity Type*	chatGPT
Configuration Level	Client
Active	<input checked="" type="checkbox"/>

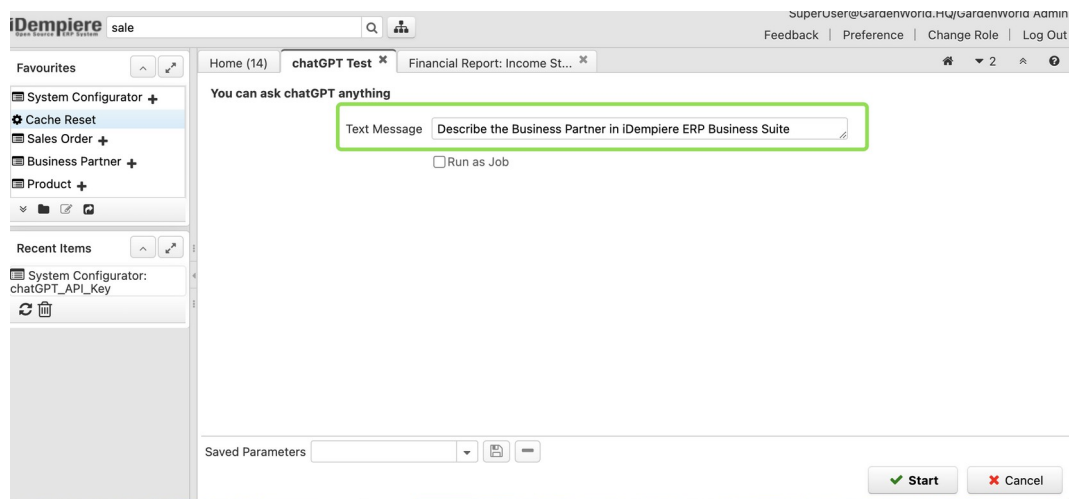


3. chatGPT Test Process

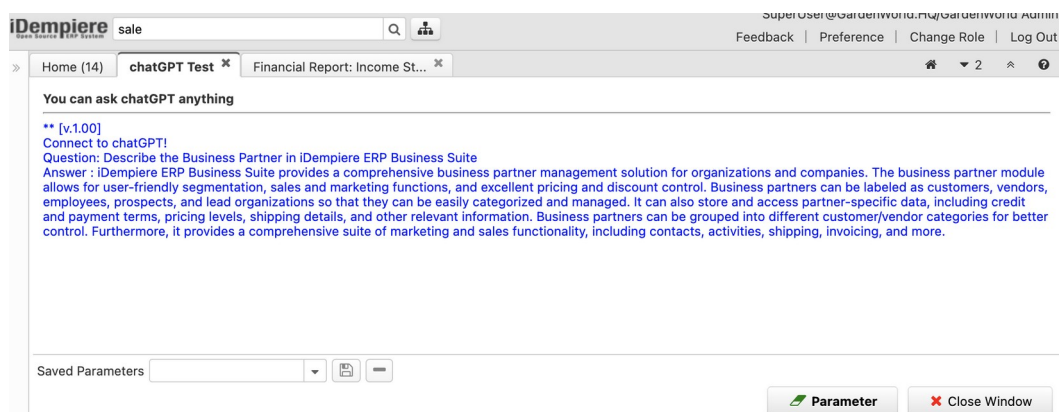


3.1 General test

You can write your question in the Text message field and click the "Start" button.



Answer from chatGPT





3.2 Multilingual communication

You can ask questions in your native language (for example Ukrainian)

The screenshot shows the iDempiere web interface. At the top, there's a header with the logo, a search bar, and user information: 'SuperUser@GardenWorld.HQ/GardenWorld Admin'. Below the header, there are tabs: 'Home (14)', 'chatGPT Test', and 'Financial Report: Income St...'. The main area is titled 'You can ask chatGPT anything'. It contains a text input field with the Ukrainian text 'Опиши вікно Продукт в системі iДемп'єр'. Below the input field is a checkbox labeled 'Run as Job'. To the right of the input field is a large Ukrainian flag. At the bottom, there are buttons for 'Start' and 'Cancel'.

Answer from chatGPT

The screenshot shows the same iDempiere web interface, but now displaying the answer from chatGPT. The text input field contains the Ukrainian text 'Опиши вікно Продукт в системі iДемп'єр'. Below the input field, the answer is displayed in blue text: '** [v.1.00] Connect to chatGPT! Question: Опиши вікно Продукт в системі iДемп'єр Answer : Вікно «Продукт» в системі iДемп'єр є універсальним інструментом для керування продуктом за своїми потребами. Воно дозволяє користувачам створювати, змінювати і оновлювати інформацію про продукти і підпродукти. Це вікно містить поля для вказування найменувань та опису продуктів, їх класифікацію та виробників, так само як і правила та політики ціноутворення. На відміну від більшості інших менеджерських систем, ця система дозволяє користувачам визначати декілька базових та допоміжних одиниць виміру для кожного продукту та допоміжних елементів, так само як і дії з контролем товарних запасів, балансу інвентару й планування витрат.' To the right of the answer is a large Ukrainian flag. At the bottom, there are buttons for 'Parameter' and 'Close Window'.



4. Process Update fields Description and Help for Product

The screenshot shows the 'Product: Nitrogen' form in the iDempiere ERP system. The form is for editing the product 'Nitrogen'. The 'Description' and 'Comment/Help' fields are highlighted with red rectangles, indicating they are the focus of the update process. Other fields include 'Tenant' (GardenWorld), 'Organization' (*), 'Search Key' (Nitrogen), 'Version No', 'Name' (Nitrogen), 'Document Note', 'UPC/EAN', 'SKU', 'Active' (checked), 'Summary Level' (unchecked), 'Product Category' (Raw Material), and 'Classification'. The form is titled 'Product' and has a 'Detail record' section at the bottom.

It is yeasy! For example you have product Nitrogen without Description and Comment/Help.

And you want to add good description (about 200 characters) and more long Comment/Help (about 2000 characters).

This screenshot shows the same 'Product: Nitrogen' form as before, but with a 'Product Update via chatGPT' dialog box open. The dialog box has a title bar 'Product Update via chatGPT' and a message: 'You can update the Description and Help fields using chatGPT (chat Generative Pre-trained Transformer) which is an artificial intelligence chatbot developed by OpenAI.' There is a checkbox 'Run as Job' and two buttons: 'OK' and 'Cancel'. The 'Description' and 'Comment/Help' fields in the background form are still highlighted with red rectangles. A green box highlights the 'Conv from product' button in the top right corner of the form.



SuperUser@GardenWorld.*/GardenWorld Admin
Feedback | Preference | Change Role | Log Out

Home (14) Product: Nitrogen Nitrogen

Select Query

Product

[v.1.00] Connect to chatGPT!Product <Nitrogen> updated!

Tenant* GardenWorld Organization* *

Search Key Nitrogen Version No

Name* Nitrogen

Description Nitrogen is an odorless, tasteless gas that forms 78% of the Earth's air. It is used as an inert and non-flammable raw material in numerous

Comment/Help Nitrogen is the most abundant element in the Earth's atmosphere, making up 78% of the air. As a raw material, nitrogen is used widely in a variety of industries, from food production to chemical production. Nitrogen is used as a liquid or as a gas – liquid nitrogen is used as a coolant and a freezing agent, while gaseous nitrogen is used for pressurizing or as an inert gas to reduce flammability. Nitrogen is also used to create nitrogen-based fertilizers to help increase crop growth, and it is used to produce a variety of pharmaceuticals and industrial chemicals, such as ammonia and nitric acid. Nitrogen is also an essential component of the production of many plastics and explosives. Finally, nitrogen is sometimes used as part of various medical treatments, particularly in cryogenics and laser treatments.

Document Note

UPC/EAN SKU

☒ Active ☐ Summary Level

Detail record

Another example for Hoe 4 ft from the Tools category

SuperUser@GardenWorld.*/GardenWorld Admin
Feedback | Preference | Change Role | Log Out

Home (14) Product: Hoe Hoe 4 ft

Select Query

Product

[v.1.00] Connect to chatGPT!Product <Hoe 4 ft> updated!

Tenant* GardenWorld Organization* *

Search Key Hoe Version No

Name* Hoe 4 ft

Description The Hoe 4 ft is a lightweight agricultural tool designed for easy garden cultivation. It is ideal for weeding, aerating and soil mixing. Its lon

Comment/Help The Hoe 4ft is a multi-function garden and farm tool. This versatile, lightweight tool has four primary parts - a handle, 4 feet of aluminium handle, a forked blade, and a pointed blade. The forked and pointed blades are made of steel, and the handle is made of high-quality aluminium alloy for durability. The Hoe 4ft is designed to be used for a variety of tasks, such as cultivating, hoeing, weeding, digging, and chopping. The handle and blades are connected with high-grade carbon steel rivets for durability and long-term use. The 4ft design allows it to be used in an ergonomic manner, affording the user a greater reach. Due to its convenience and durability, the Hoe 4ft is an effective tool for many different types of garden and farm activities.

Document Note

UPC/EAN SKU

☒ Active ☐ Summary Level

Detail record



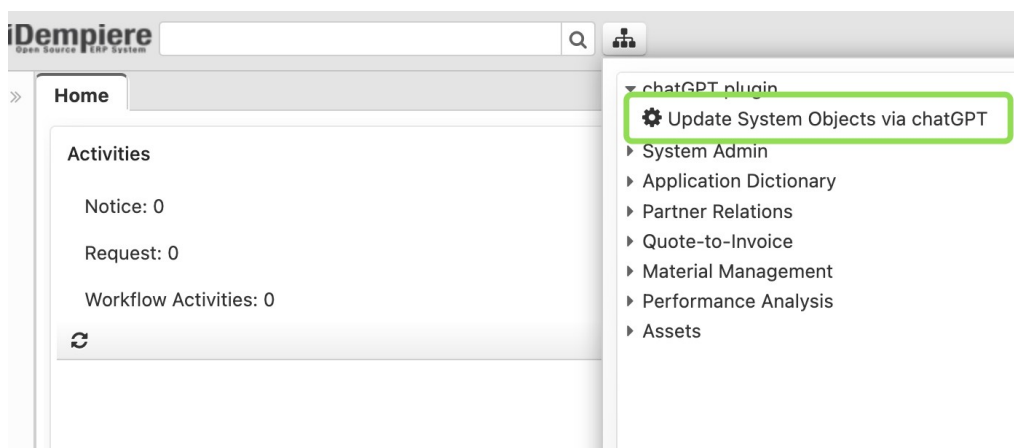
5. Process Update fields Description and Help for other objects of System

I think this tool can help to approve the Description and Help for iDempiere ERP Business Suite.

You can login as System

The login form for iDempiere ERP System. It includes fields for Tenant (System), Role (System Administrator), Defaults (Org, Warehouse), and Date (12.06.2023).

Select Process Update System Objects via chatGPT



5.1 Menu update

The iDempiere Menu update form. It includes a text area for the message, a dropdown for the type (Application or Module), and a dropdown for the menu (Contact). The form is titled 'Update System Objects via c...' and 'Menu: Contact'. It also includes a 'Run as Job' checkbox and a 'Start' button.



SuperUser@System.*/System Administrator

Feedback | Preference | Change Role | Log Out

Home | Update System Objects via c... | Menu: Contact

Select Query

Menu

Record saved

Lookup: [v]

Tenant* System Organization*

Name* Contact

Description Maintain Contacts

Entity Type* Dictionary

Centrally maintained

Expanded Tree

Saved Parameters

Parameter Close Window

SuperUser@System.*/System Administrator

Feedback | Preference | Change Role | Log Out

Home | Update System Objects via c... | Menu: Contact

Menu

Tenant* System Organization*

Name* Contact

Description Menu Contact in iDempiere provides access to contacts, business partners, leads, resour

Active

Entity Type* Dictionary Centrally maintained

Description

Text HTML

Menu Contact in iDempiere provides access to contacts, business partners, leads, resources, and other related functions related to contacts and resources. It also features various options for data entry, search, and reporting.

Variables

Detail record



5.2 Windows update



5.2.1 Maintain Window

iDempiere

SuperUser@System.* / System Administrator

Feedback | Preference | Change Role | Log Out

Home | Update System Objects via c... | Window, Tab & Field: Cost E...

Select Query

Window

Record saved

Tenant* System Organization* *

Name* Cost Element

Description Maintain Product Cost Element

You can define your own product cost elements.

Comment/Help

☒ Active ☐ Beta Functionality

Detail record

5.2.2 Transaction Window (for Documents)

iDempiere

SuperUser@System.* / System Administrator

Feedback | Preference | Change Role | Log Out

Home | Update System Objects via c... | Window, Tab & Field: Cost E...

Select Query

Window

Data requested

Tenant* System Organization* *

Name* Cost Element

Description Window Cost Element is a component of iDempiere used to generate cost elements to the cost tracki

Window Cost Element is a window in iDempiere Enterprise Resource Planning (ERP) system used to manage and organize cost elements. Cost elements are represented by user-defined codes that enable users to categorize costs and allocate them to departments or other financial structures. When users create a new cost element, they can enter the code, define the account and account type, and assign an amount and rate for the cost element. It also supports various cost or expense types, such as overhead, sales, or purchasing costs, and the cost element can also be automatically generated in financial reports. It also allows users to create and track budgets for cost elements, making it an effective tool for managing costs and expenses. The window also provides real-time insights into the financial state of the organization.

Comment/Help

☒ Active ☐ Beta Functionality

Detail record

Start Cancel



5.3 Info Windows update

5.4 Forms update



6. Project Protocol

6.1 Project Version

chatGPT Plugin v1.0.1alfa

6.2 Source Repository

<https://bitbucket.org/pshepetko/org.idempiere.chatGPT>

6.3 Project Forum for Support

General support forum <https://groups.google.com/forum/#!forum/idempiere>

Issues for this plugin <https://bitbucket.org/pshepetko/org.idempiere.chatGPT/issues>

6.4 Contact

Peter Shepetko: pshepetko@gmail.com