

WhatsApp/ChatGTP Chatbot with PHP

Necessary Resources

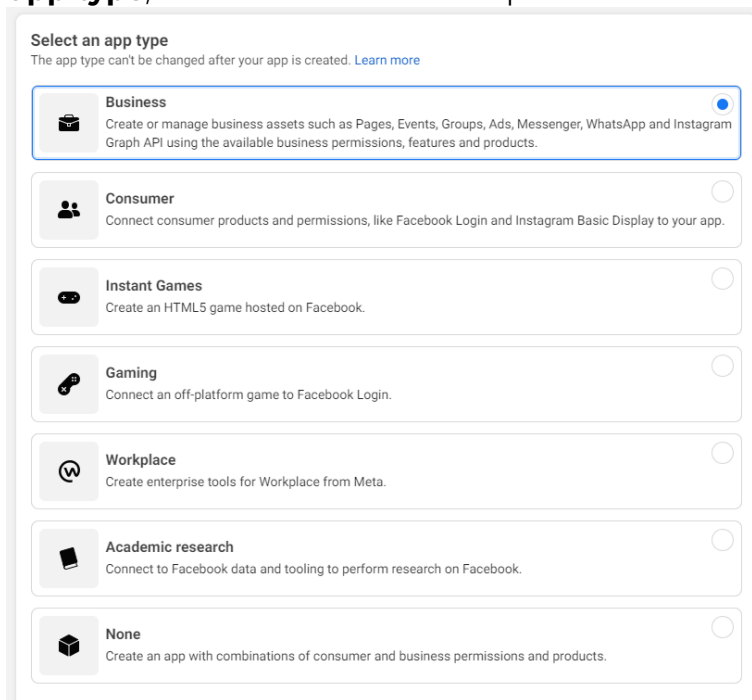
1. Meta Developer Account (<https://developers.facebook.com/>).
2. CharGPT Account (<https://platform.openai.com/apps>).
3. Hosting to have a valid domain (FQDN) with certificate.
4. Install git (<https://git-scm.com/downloads>).
5. Have a Github account, to keep control of source code (<https://desktop.github.com/>)
6. Install Visual Studio Code (<https://code.visualstudio.com/download>)
7. Add the following extensions in Visual Studio Code:
 - a. Color Highlight
 - b. Community Material Theme
 - c. Material Icon Theme
 - d. Material Them Icons
8. Install Postman to test the API (<https://www.postman.com/downloads/>).

Create Project in Meta

Next, we will show how to create a new project in Meta to be able to use the WhatsApp API. For which we enter our Meta Developer account and go to the My Apps section (Upper right corner).

We press Create App

- **Select an app type**, we select Business and press Next.



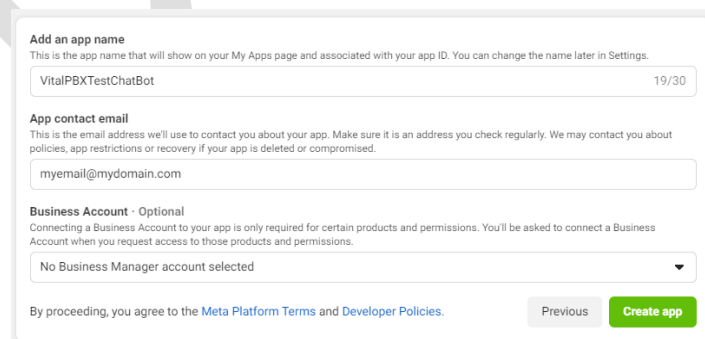
Select an app type

The app type can't be changed after your app is created. [Learn more](#)

- Business**
Create or manage business assets such as Pages, Events, Groups, Ads, Messenger, WhatsApp and Instagram Graph API using the available business permissions, features and products.
- Consumer
Connect consumer products and permissions, like Facebook Login and Instagram Basic Display to your app.
- Instant Games
Create an HTML5 game hosted on Facebook.
- Gaming
Connect an off-platform game to Facebook Login.
- Workplace
Create enterprise tools for Workplace from Meta.
- Academic research
Connect to Facebook data and tooling to perform research on Facebook.
- None
Create an app with combinations of consumer and business permissions and products.

App name and contact information

- **Add an app name**, we write the name of our app
- **App contact email**, We leave the contact email like this, unless we want any issue about this app to be sent to another email.
- **Business Account**, we leave it as is, this parameter is optional.



Add an app name

This is the app name that will show on your My Apps page and associated with your app ID. You can change the name later in Settings.

VitalPBXTestChatBot 19/30

App contact email

This is the email address we'll use to contact you about your app. Make sure it is an address you check regularly. We may contact you about policies, app restrictions or recovery if your app is deleted or compromised.

myemail@mydomain.com

Business Account - Optional

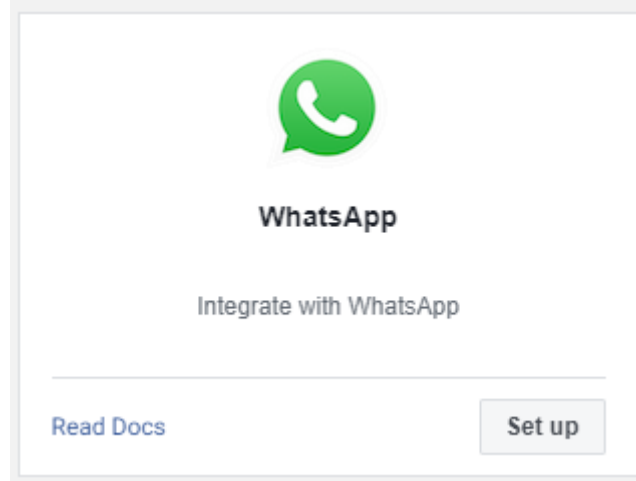
Connecting a Business Account to your app is only required for certain products and permissions. You'll be asked to connect a Business Account when you request access to those products and permissions.

No Business Manager account selected

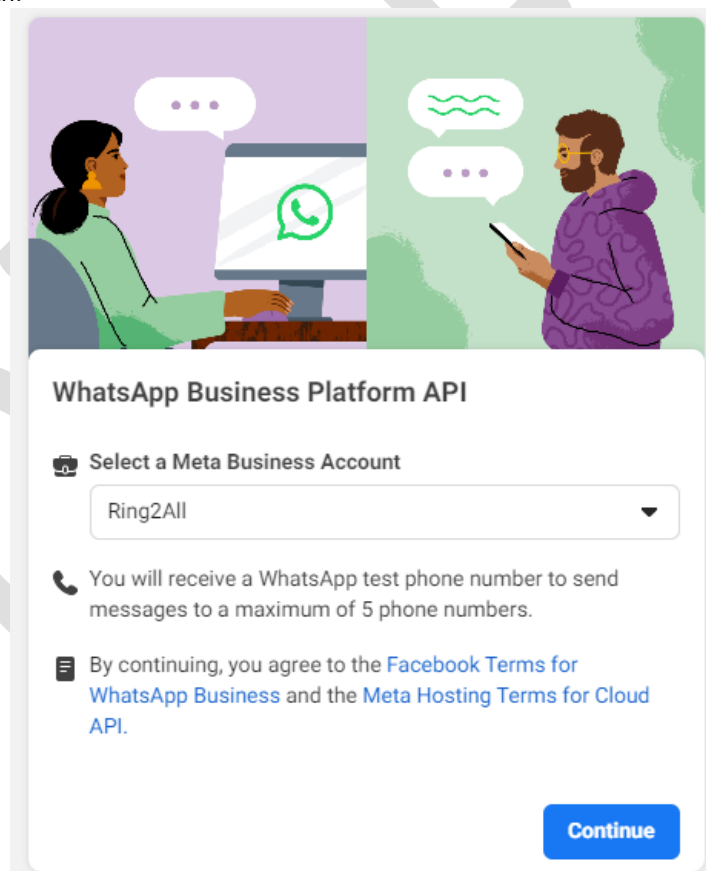
By proceeding, you agree to the [Meta Platform Terms](#) and [Developer Policies](#). Previous **Create app**

Pressing the Create app button will ask us for the password of our Facebook user.

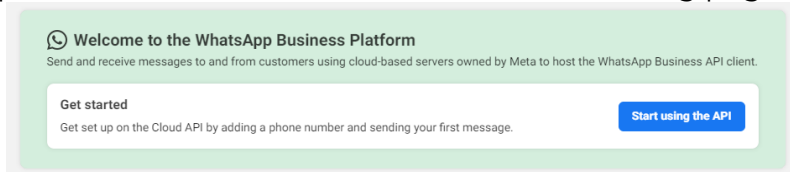
Now we proceed to add the product that we want to associate with the app, we select of course WhatsApp.



We press Set up and then it will ask us to select a Business Account, in our case it is called Ring2All:



And we press Continue and it will show us the following page.



Now we press Start using the API and it will show us the following page with our temporary Token and our temporary number. Later we will show how to create a permanent Token.

Temporary access token

EAARbfmEvB8UBAC0ox5ARCWsc2ZA1ZCgdwvql4... Copy Refresh This token will expire in **23 hours**.

Send and receive messages

Step 1: Select phone numbers

From
Send free messages with the provided test phone number. You can use your own phone number which is subject to limits and pricing. [Learn more](#).

Test number: +1 555 097 5091

Phone number ID: 124888660531858 Copy WhatsApp Business Account ID: 124866093862832 Copy

To
Select a recipient phone number

Step 2: Send messages with the API

To send a test message, copy this command, paste it into Terminal, and press enter. To create your own message template, click [here](#).

```
1 curl -i -X POST `
2 https://graph.facebook.com/v16.0/124888660531858/messages `
3 -H 'Authorization: Bearer
EAARbfmEvB8UBAC0ox5ARCWsc2ZA1ZCgdwvql4Hoy7mbIZaA15QVsZB8TqmHTna87alH6HrYXFIPxTPV9wQNFQGYGpPbysaHu4pTZCb1x3yZCG7YcV17NFI8ZCvpgBws
Rfnd6bPdTh0s2IfTsU1POyh3MNGGkmpqWxZCSAoRvcb7DS0ZCtgEK7ZCHuUfpz1V8kv0Df80hNQrXhgZDZD' `
4 -H 'Content-Type: application/json' `
5 -d '{ "messaging_product": "whatsapp", "to": "", "type": "template", "template": { "name": "hello_world",
"language": { "code": "en_US" } } }'
```

Run in Postman Send message

To do a test we must add a destination WhatsApp number, for which in the box that says To press Manage put number list and then press Add put number:

Add a recipient phone number ×

You can have up to 5 phone numbers to receive free test messages.

Phone number

US +1

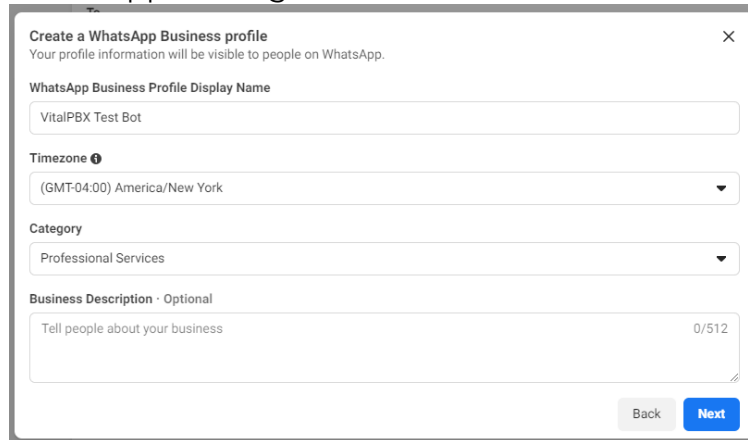
By continuing, you are giving consent to receive messages at this phone number.

Back Next

We select the country and then write the number. At the moment we add it, it will ask us about a confirmation code that is sent to the number to allow it to be added. Once added, we already have a number to test sending messages.

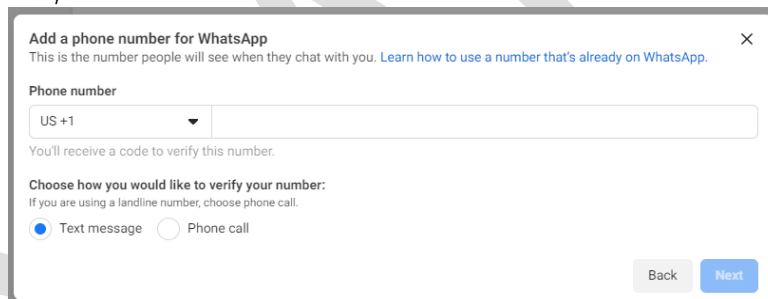
Add phone from where messages will be sent

If we want to add our own phone number from which we are going to send messages in the WhatsApp/Getting starter menu section.



The screenshot shows a form titled "Create a WhatsApp Business profile" with a close button (X) in the top right corner. Below the title is a note: "Your profile information will be visible to people on WhatsApp." The form contains several fields: "WhatsApp Business Profile Display Name" with the text "VitalPBX Test Bot"; "Timezone" with a dropdown menu showing "(GMT-04:00) America/New York"; "Category" with a dropdown menu showing "Professional Services"; and "Business Description · Optional" with a text area containing "Tell people about your business" and a character count "0/512". At the bottom right are "Back" and "Next" buttons.

Now we press Next, and we will be asked the number to use.

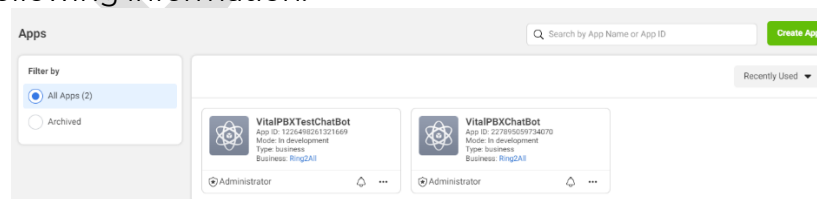


The screenshot shows a form titled "Add a phone number for WhatsApp" with a close button (X) in the top right corner. Below the title is a note: "This is the number people will see when they chat with you. [Learn how to use a number that's already on WhatsApp.](#)" The form contains a "Phone number" field with a dropdown menu showing "US +1" and a text input field. Below this is a note: "You'll receive a code to verify this number." Then, there is a section titled "Choose how you would like to verify your number:" with a sub-note: "If you are using a landline number, choose phone call." There are two radio buttons: "Text message" (selected) and "Phone call". At the bottom right are "Back" and "Next" buttons.

We select the country code, write the number and select Text message. When pressing **Next** we will be asked for a code sent to this number to confirm that we are the owners of this.

Add a permanent token

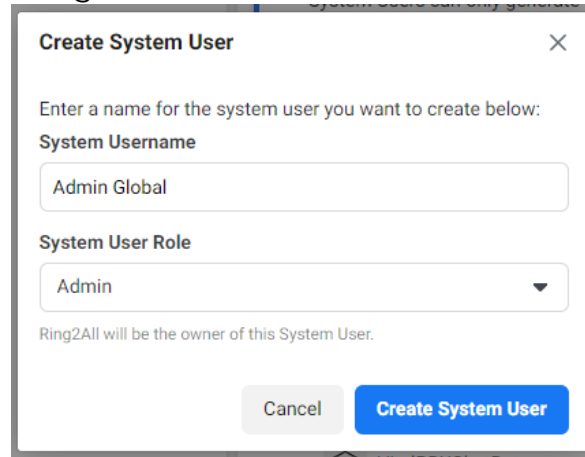
To add a permanent Token follow the next steps, we go to My Apps and it will show us the following information.



The screenshot shows a page titled "Apps" with a search bar "Search by App Name or App ID" and a "Create App" button. On the left, there is a "Filter by" section with two radio buttons: "All Apps (2)" (selected) and "Archived". The main area displays two app cards. Both cards are for "VitalPBXChatBot" and show "App ID: 1226490261321669" and "App ID: 227895029734670". Both cards also show "Mode: In development", "Type: Business", and "Business: Ring2All". Each card has an "Administrator" label and a menu icon.

Now we press where it says Business: Ring2All (in my case, in your case it will be a different name).

On the next screen, the Users/System users option will appear. We add an administrator user, pressing the Add button.



A modal dialog box titled "Create System User" with a close button (X) in the top right corner. The dialog contains the following elements:

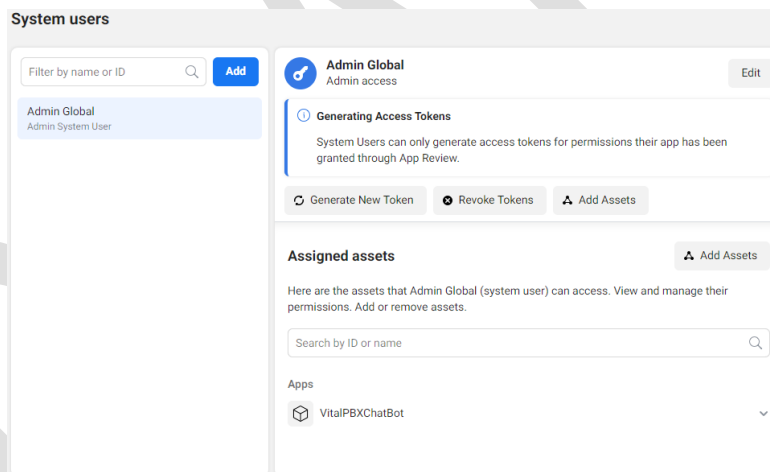
- Text: "Enter a name for the system user you want to create below:"
- Section: "System Username" with a text input field containing "Admin Global".
- Section: "System User Role" with a dropdown menu showing "Admin".
- Text: "Ring2All will be the owner of this System User."
- Buttons: "Cancel" and "Create System User" (highlighted in blue).

System username, We select a user that in my case is called Admin Global.

System User Role, we select Admin.

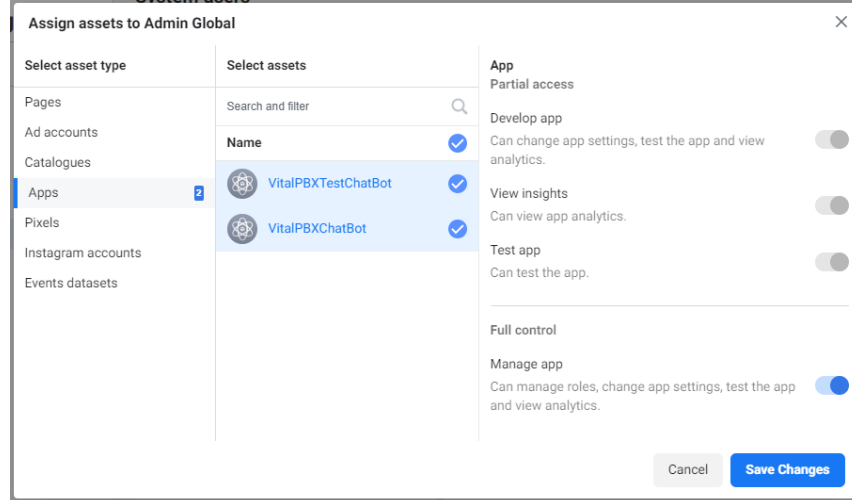
Finally press Create System User.

Then the following screen will be displayed, already with our user created.



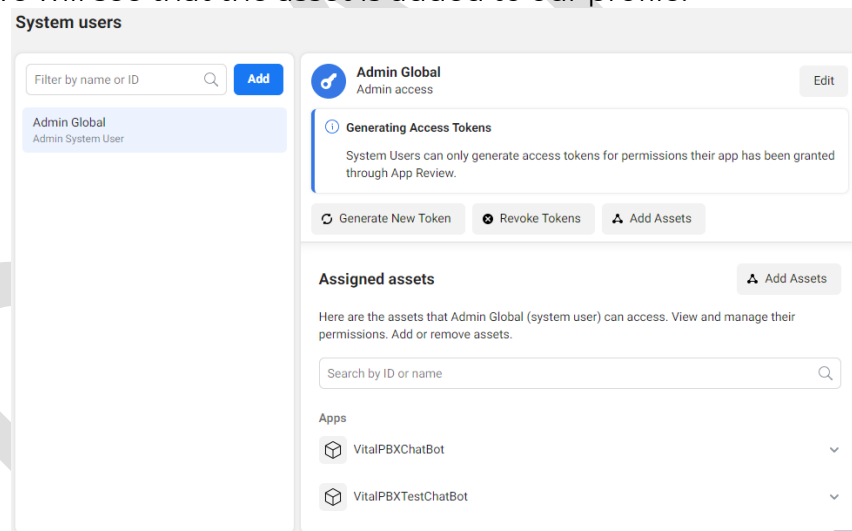
A screenshot of the "System users" management interface. It features a sidebar on the left with a search bar and an "Add" button. The main content area displays details for the "Admin Global" system user, including an "Edit" button, a "Generating Access Tokens" section with instructions and buttons for "Generate New Token", "Revoke Tokens", and "Add Assets", and an "Assigned assets" section with an "Add Assets" button and a list of apps including "VitalPBXChatBot".

Now we are going to add the assets (Assets) that this user will have access to, for which we press the Add Assets button.



We select the assets that we want to manage and activate the Full control option as shown in the image.

Now we will see that the asset is added to our profile.



Now we go to Generate New Token and select the App and the Permanent option and at the bottom we select the following options:

- whatsapp_business_messaging
- whatsapp_business_management

And we press Generate Token

Generate Token

Select App:
VitalPBXTestChatBot

Token expiration
Select the length of time that you'd like this token to be valid for. [Learn about token expiry.](#)

☐ 60 days
☒ Permanent

Generating Access Tokens
The list of available scopes is based on previously granted permissions for this app. To access additional permissions, submit your request through App Review on the app dashboard

Page Permissions Have Been Updated
Six new permissions have replaced manage_pages and publish_pages. [\[Learn More\]](#)

Finally, we press Generate Token and copy the Token.

Generate Token

An access token has been generated for Ring2All as follows:

System User: **Admin Global**
Assigned App: **VitalPBXTestChatBot**
Access Token: **EAABfmevB...c9KZB**

Copy and save this token as it won't be stored at Facebook.

OK

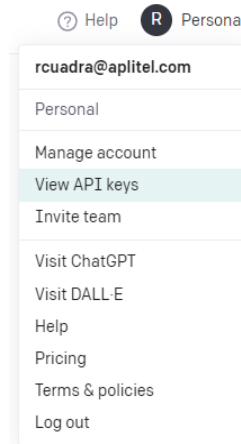
Important note:

This token can only be viewed at this time, it is not possible to view it later, so please copy it to a safe place to use in your application.

Create ChatGPT/OpenAI Token

Enter our OpenAI account and go to:
<https://platform.openai.com/apps>

Then in the upper right side go to our account.



Select View API keys.

Press the API option and in the menu on the left select API keys.

ORGANIZATION

- Personal ⓘ
- Settings
- Usage
- Rate limits
- Members
- Billing

USER

API keys

And we proceed to create a new API key by pressing + Create new secret key.

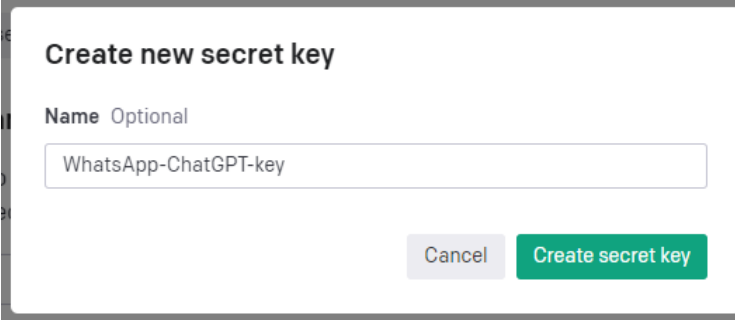
API keys

Your secret API keys are listed below. Please note that we do not display your secret API keys again after you generate them.

Do not share your API key with others, or expose it in the browser or other client-side code. In order to protect the security of your account, OpenAI may also automatically rotate any API key that we've found has leaked publicly.

NAME	KEY	CREATED	LAST USED ⓘ	
TranscriptionKey	sk-...Nftx	May 4, 2023	May 8, 2023	 
+ Create new secret key				

We select a suitable name to remember and press the Create secret key button.



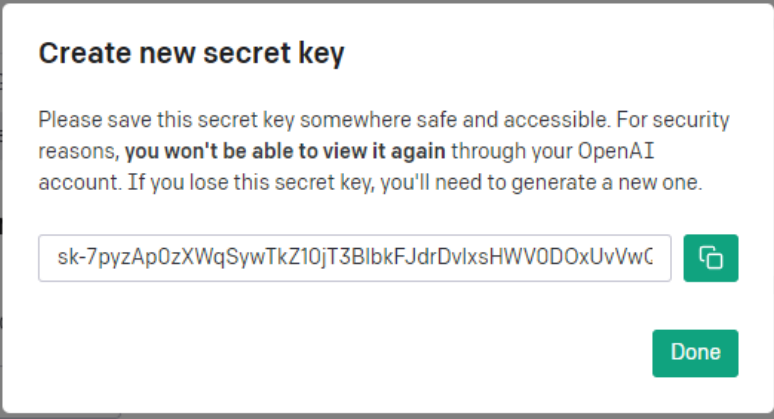
Create new secret key

Name Optional

WhatsApp-ChatGPT-key

Cancel Create secret key

We copy the secret key since we will not be able to see it again. We will use this later.



Create new secret key

Please save this secret key somewhere safe and accessible. For security reasons, **you won't be able to view it again** through your OpenAI account. If you lose this secret key, you'll need to generate a new one.

sk-7pyzAp0zXWqSywTkZ10jT3BibkFJdrDvlxsHwV0DOxUvVwC

Done

Project in PHP to make a Chatbot integrating WhatsApp and ChatGPT

After having the two Tokens we proceed to create our project using Visual Studio Code. We download the complete code in:

<https://github.com/VitalPBX/chatbot-whatsApp-ChatGPT-with-PHP>

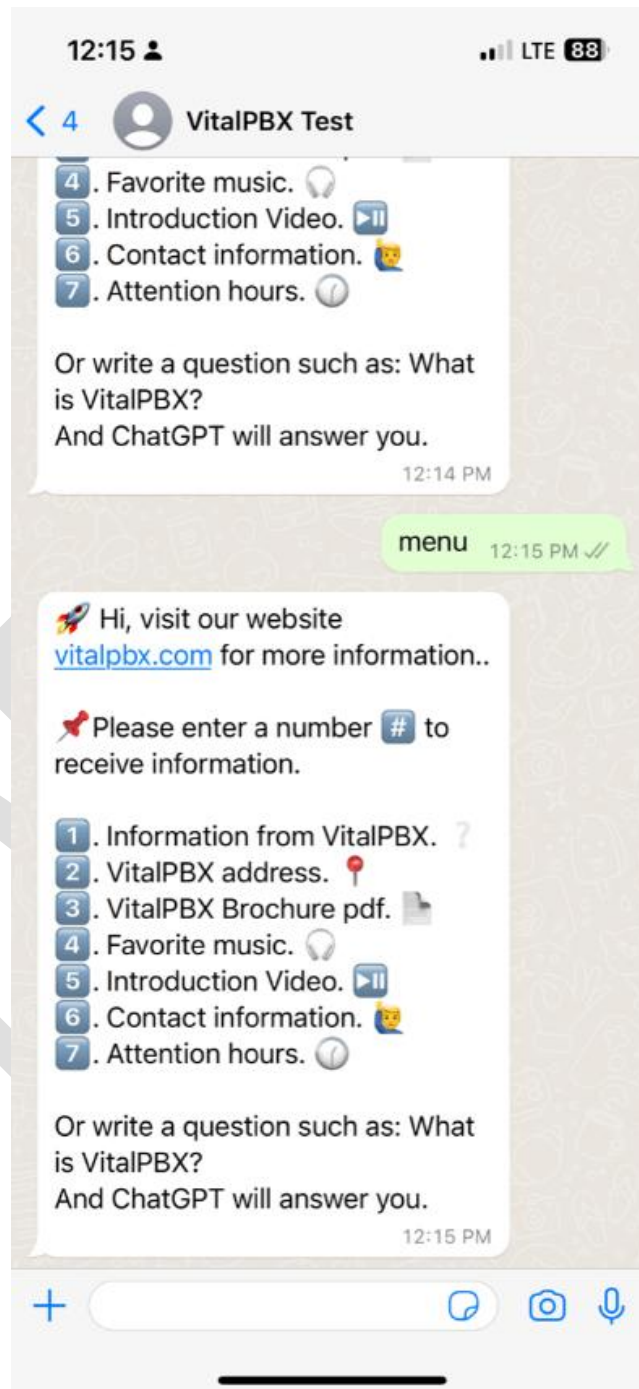
Project Files

- **chatbot_database.sql**, database where the Chatbot information is stored, for example if a word is received, which must be answered.
- **chatbot_database_with_data.sql**, database where the Chatbot information is stored, for example if a word is received, which must be answered. This database have information.
- **config.php**, global settings such as database connection details, WhatsApp tokens, and ChatGTP.
- **dbconextion.php**, database query functions.
- **webhook.php**, code that is responsible for handling all requests from WhatsApp.
- **Chatbot_WhatsApp-ChatGPT-API_With_PHP**, the name of this file, where it is explained step by step how to implement this project.

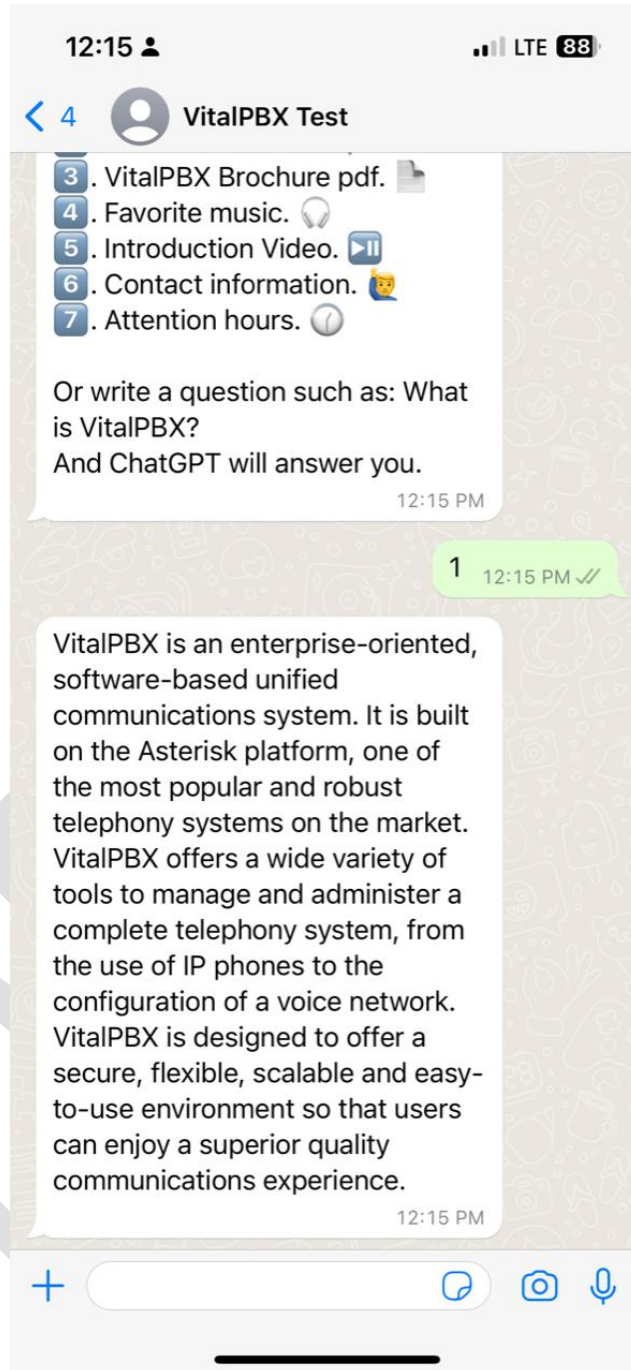
Test Result

Next we are going to show a test of the operation of the Chatbot made with the database that has information.

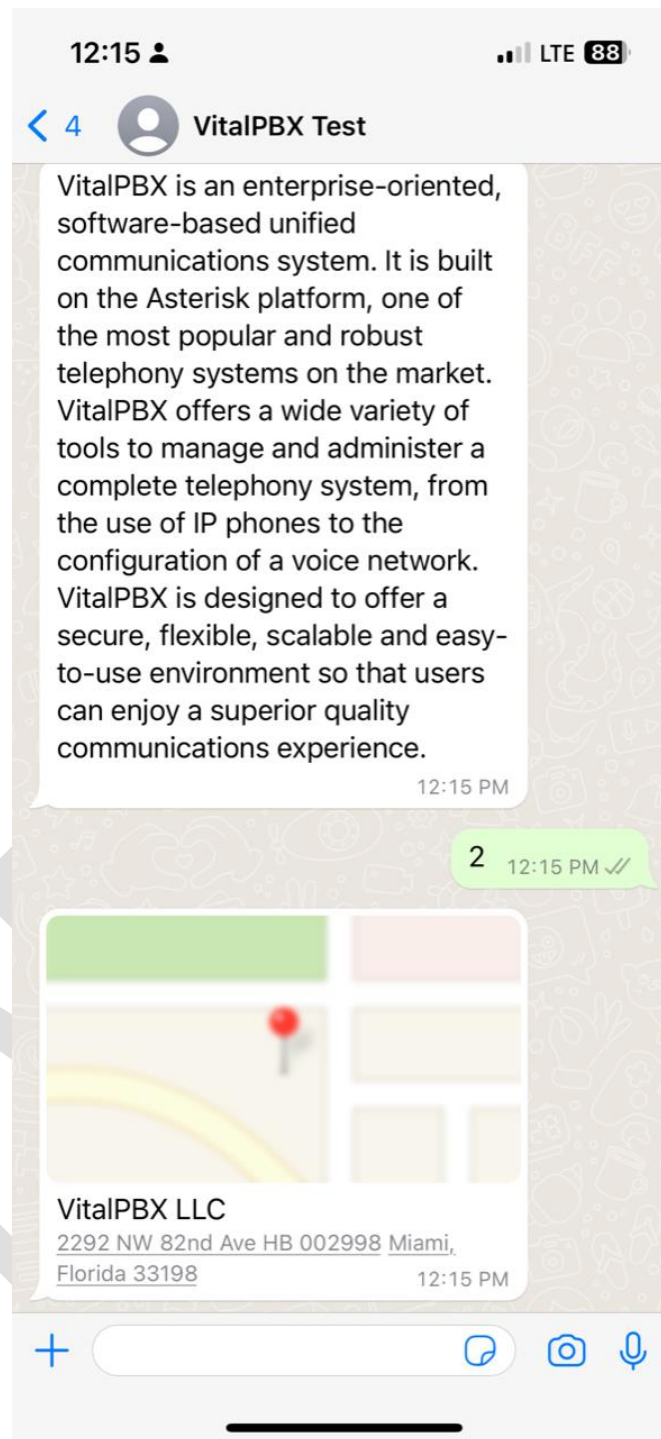
Menu



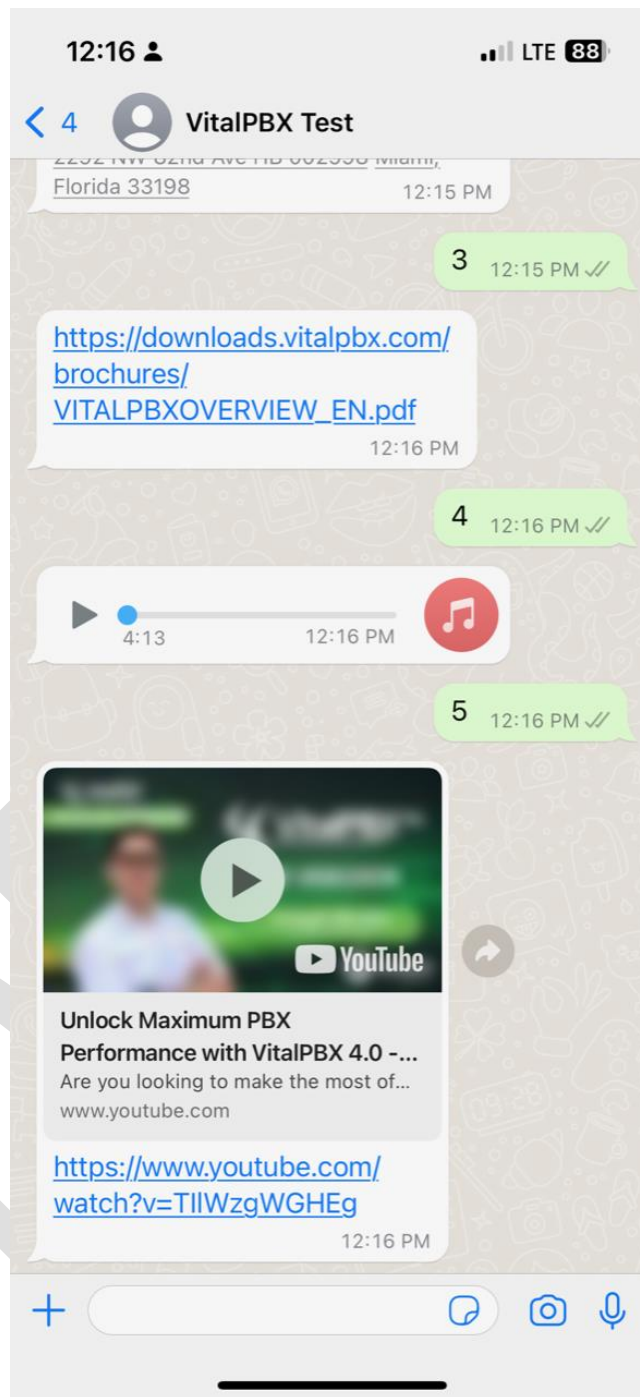
Option 1 (text)



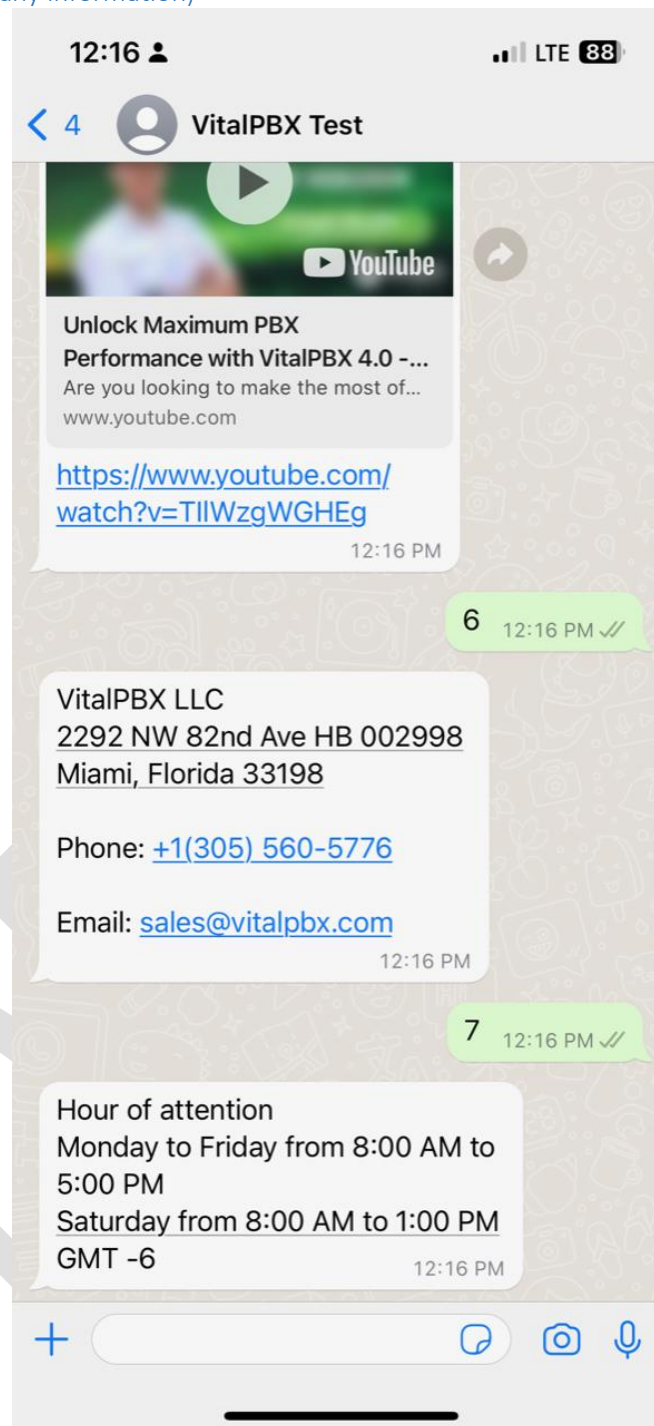
Option 2 (Address)

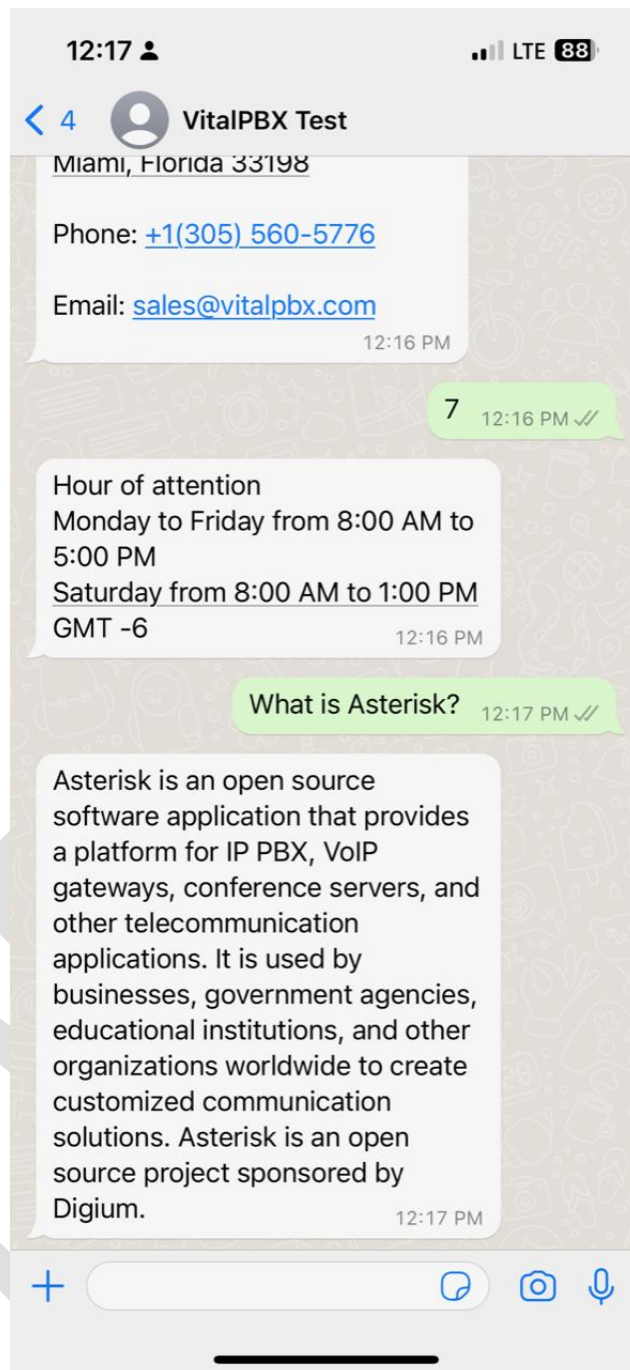


Option 3 (pdf file), Option 4 (Audio), Option 5 (Video)



Option 6, 7 (Text, Company information)





Conclusions

Integrating WhatsApp with ChatGPT can offer several advantages:

Access to a large user base: WhatsApp is one of the most popular messaging applications worldwide, with billions of users. By integrating ChatGPT with WhatsApp, you can reach a massive audience and provide assistance or services to a large number of people.

Conversational interaction: ChatGPT is designed to have natural and contextual conversations with users. By integrating WhatsApp, you can provide a conversational experience similar to speaking with a human, making the interaction more seamless and enjoyable for users.

Automation of responses: With the integration of WhatsApp and ChatGPT, you can automate responses to frequently asked questions or common queries. This can save time and resources by reducing the manual workload of customer support or service teams.

24/7 availability: WhatsApp allows people to send messages at any time of the day. By integrating ChatGPT, you can provide assistance or information to users 24/7 without the need for constant human intervention. This can enhance the user experience by delivering quick responses and being available at all times.

Personalization and context: ChatGPT can learn from previous interactions and take into account the conversation context. This means it can provide personalized and tailored responses to the specific needs of each user. By integrating it with WhatsApp, you can create a more individualized and relevant experience for each user.

However, it's also important to consider the limitations of the integration. ChatGPT is a text-based language model and does not have direct access to WhatsApp's functionalities like sending images, videos, or making calls. Additionally, due to the automated nature of the integration, it may not be able to solve complex problems or provide responses as accurate as a human in certain cases.