

HƯỚNG DẪN CÀI ĐẶT RASAPRO SỬ DỤNG OPENAI API KEY

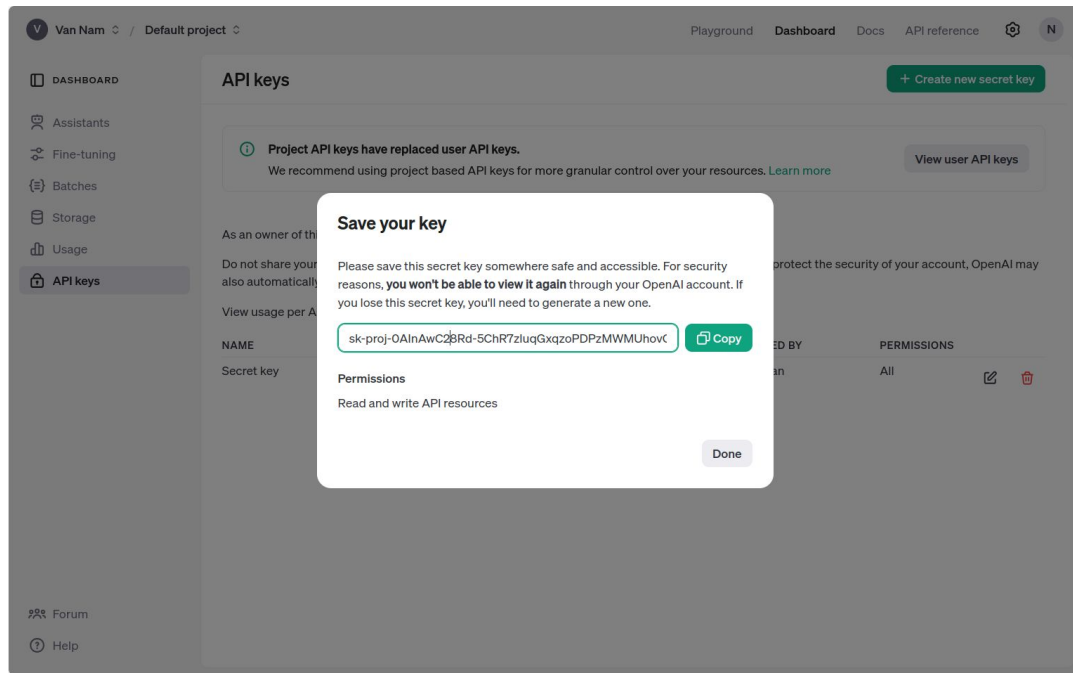
Đăng kí Rasa Pro license key tại [đây](#)

Here is your license key:

eyJhbGciOiJSUzI1NiIsInR5cCI6IkpXVCJ9.
eyJqdGkiOiJkMDlmNTljMC1hYzUxLT
QwODMtYTZkOS0yZGZjMTE5MTQ3MjAi
LCJpYXQiOiE3MTk3NjM0MTE5Im5iZi
I6MTcxOTc2MzQxMSwic2NvcGU0IjJy
YXN0OnBybyByYXN0OnByb2pjaGFtCg
lubiIsImV4cCI6MTMgNDM3MTQxMSwi
ZW1haWwiOiJkYXV2YW5uYW0zMjFAZ2
1hawWuY29tIiwY29tcGFueSI6IlJhc2EgQ2hhbXBpb25zIn0.
GX9yRGKpQMKNFG2A3bg88JsRc0QQIC
opuP4zLAN8mYxSs5FvQ67rSeP7eRHizS6jVZduy-
Hk0xKoVp6j4mvVjpkypmrcC4dmJqJA
Zz6GmPXrL24xuwUERQY8EF0fuiUeR-
QDzwgXLcelTC08TzrCEsYPKhsQv6xP
FwIkF0SsrSd7wriHDxr2f6gxsRUwVU
Fv4SYiwYNUfiyDK6gn3pGYu6G9g hKJ713Tekoo9-

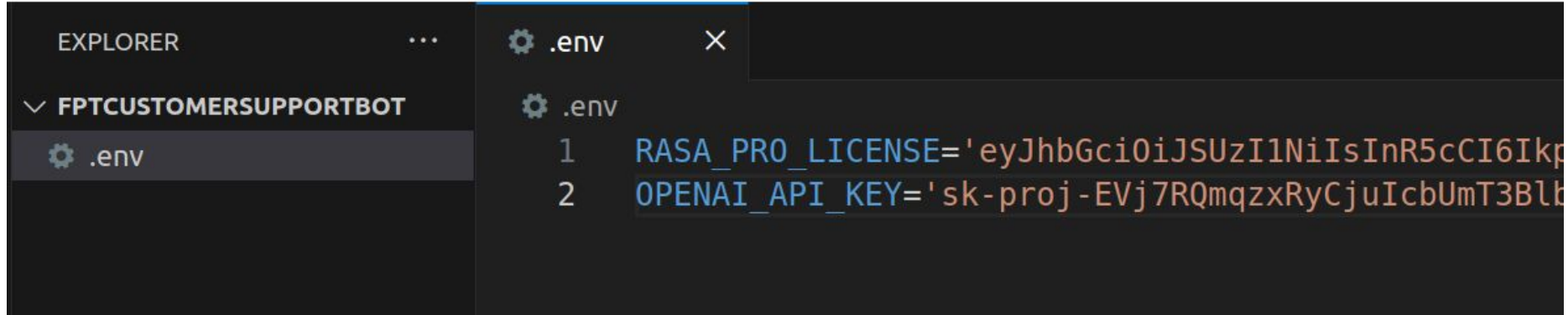
Key được gửi về qua mail

Tạo OpenAI API key tại [đây](#)



Có thể dùng các LLM Providers khác ngoài OpenAI

Trong folder chứa dự án (ở đây folder của mình là FPTCUSTOMERSUPPORTBOT) , tạo file .env để chứa 2 key vừa tạo

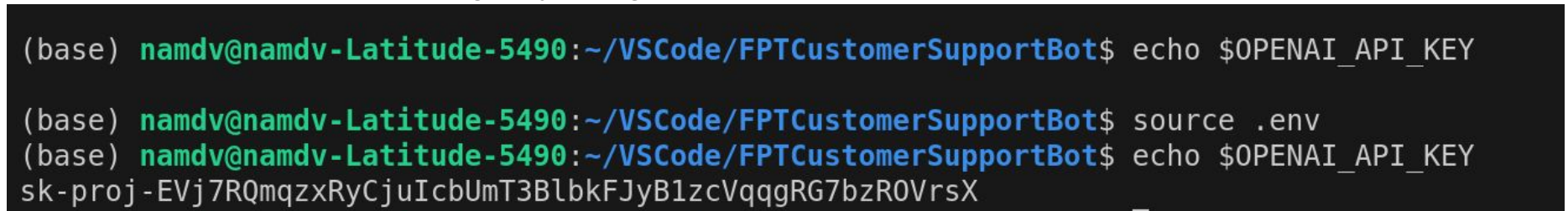
A screenshot of the Visual Studio Code interface. On the left, the Explorer sidebar shows a folder named 'FPTCUSTOMERSUPPORTBOT' with a file named '.env' selected. On the right, the editor window displays the contents of the '.env' file, which contains two lines of text: '1 RASA_PRO_LICENSE='eyJhbGciOiJSUzI1NiIsInR5cCI6Ikp...' and '2 OPENAI_API_KEY='sk-proj-EVj7RQmqzxRyCjuIcbUmT3Blb...'.

```
EXPLORER  ...  .env  X

  ▼ FPTCUSTOMERSUPPORTBOT
    .env

1  RASA_PRO_LICENSE='eyJhbGciOiJSUzI1NiIsInR5cCI6Ikp...'
2  OPENAI_API_KEY='sk-proj-EVj7RQmqzxRyCjuIcbUmT3Blb...
```

Load các biến môi trường này bằng lệnh: `source .env`

A screenshot of a terminal window showing the execution of commands to load environment variables. The prompt is '(base) namdv@namdv-Latitude-5490:~/VSCode/FPTCustomerSupportBot\$'. The first command is 'echo \$OPENAI_API_KEY', which outputs 'sk-proj-EVj7RQmqzxRyCjuIcbUmT3BlbkFJyB1zcVqqgRG7bzR0VrsX'. The second command is 'source .env'. The third command is 'echo \$OPENAI_API_KEY', which outputs the same value as the first command.

```
(base) namdv@namdv-Latitude-5490:~/VSCode/FPTCustomerSupportBot$ echo $OPENAI_API_KEY
sk-proj-EVj7RQmqzxRyCjuIcbUmT3BlbkFJyB1zcVqqgRG7bzR0VrsX

(base) namdv@namdv-Latitude-5490:~/VSCode/FPTCustomerSupportBot$ source .env

(base) namdv@namdv-Latitude-5490:~/VSCode/FPTCustomerSupportBot$ echo $OPENAI_API_KEY
sk-proj-EVj7RQmqzxRyCjuIcbUmT3BlbkFJyB1zcVqqgRG7bzR0VrsX
```

tạo môi trường ảo với conda (cách cài conda ở [đây](#))

```
conda create -n <env-name> python=3.8
```

(rasa pro hiện đang hỗ trợ cho python 3.8, 3.9 và 3.10 có thể thay phiên bản python phù hợp)

```
(base) namdv@namdv-Latitude-5490:~/VSCode/FPTCustomerSupportBot$ conda create -n fptbot_env  
python=3.8
```

kích hoạt môi trường ảo

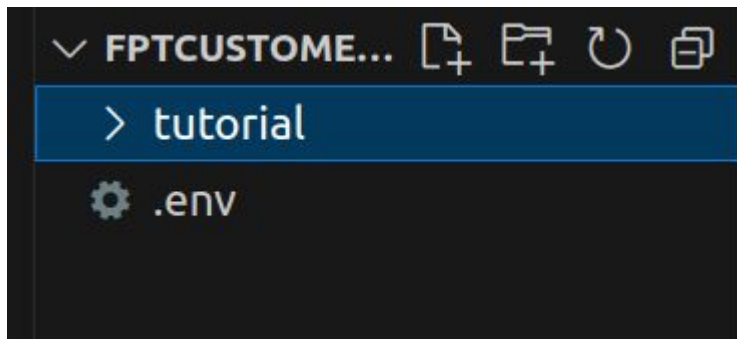
```
(base) namdv@namdv-Latitude-5490:~/VSCode/FPTCustomerSupportBot$ conda activate fptbot_env  
(fptbot_env) namdv@namdv-Latitude-5490:~/VSCode/FPTCustomerSupportBot$
```

cài đặt uv và rasa pro hoặc rasa plus theo hướng dẫn [này](#) và version cụ thể như [sau](#)

```
(fptbot_env) namdv@namdv-Latitude-5490:~/VSCode/FPTCustomerSupportBot$ pip install uv
Collecting uv
  Using cached uv-0.2.36-py3-none-manylinux_2_17_x86_64.manylinux2014_x86_64.whl.metadata (3
7 kB)
Using cached uv-0.2.36-py3-none-manylinux_2_17_x86_64.manylinux2014_x86_64.whl (11.2 MB)
Installing collected packages: uv
Successfully installed uv-0.2.36
(fptbot_env) namdv@namdv-Latitude-5490:~/VSCode/FPTCustomerSupportBot$
```

```
(fptbot_env) namdv@namdv-Latitude-5490:~/VSCode/FPTCustomerSupportBot$ uv pip install rasa-p
ro --extra-index-url=https://europe-west3-python.pkg.dev/rasa-releases/rasa-pro-python/simpl
e/
.: Resolving dependencies...
```

tạo folder mới (ở đây mình đặt là “tutorial”) để chứa template tutorial của Rasa Pro, từ template này, ta có thể thêm các flows, actions, ... để phù hợp với yêu cầu dự án. Ở phần setup này, ta chỉ cần chạy tutorial của Rasa Pro



sau đó tạo template với lệnh “rasa init --template tutorial”

```
(fptbot_env) namdv@namdv-Latitude-5490:~/VSCode/FPTCustomerSupportBot$ rasa init --template tutorial
```

nhập tên folder chứa dự án (ở vd này là tutorial)

```
(fptbot_env) namdv@namdv-Latitude-5490:~/VSCode/FPTCustomerSupportBot$ rasa init --template tutorial
Welcome to Rasa! 🤖

By installing and using this software, you agree to be bound by the terms and conditions of the Developer Terms available at https://rasa.com/developer-terms. Please review the Developer Terms carefully before proceeding.

To get started quickly, an initial project will be created.
If you need some help, check out the documentation at https://rasa.com/docs/rasa-pro.
Now let's start! 👉

? Please enter a path where the project will be created [default: current directory] █
```

chọn train model hay không (Y/n)?


Đối với hướng dẫn này, ta có thể chọn Y luôn còn đối với các dự án khác, ta có thể train model sau khi thêm các flows, actions, ... bằng lệnh “rasa train”

```
Created project directory at '/home/namdV/VSCode/FPTCustomerSupportBot/tutorial'.
Finished creating project structure.
? Do you want to train an initial model? 🤖 (Y/n) █
```

```
Created project directory at '/home/namdV/VSCode/FPTCustomerSupportBot/tutorial'.
Finished creating project structure.
? ? Do you want to train an initial model? 🤖 Yes
Training an initial model...
```

có thể chọn chat với bot ngay bằng cách nhấn y.

```
testStepLLMCommandGenerator'.  
2024-08-15 10:21:36 INFO      rasa.model_training - [info      ] Your Rasa model is trained a  
nd saved at 'models/20240815-102132-gravitational-cover.tar.gz'. event_key=model_training.tr  
ain.finished_training  
? Do you want to speak to the trained assistant? 🤖 (Y/n) █
```

Rasa Inspector

New to the Inspector? [Browse the docs](#)


Stack (0 frames)

ID	Flow	Step ID
-	-	-

SlotsEnd-2-end testTracker state

Name	Value
-	-

Flow



No flow is currently active



Type a message to your assistant in the chat window on the right to activate one


Restart conversation

transfer 100\$ to jane

All done. 100.0 has been sent to Jane.

Is there anything else I can assist you with?

Start typing a message...  



Nếu chọn n, ta có thể chat với bot bằng lệnh “rasa shell” để chat trên terminal hoặc “rasa inspect” để có thể chat trên giao diện. (Nhớ di chuyển tới folder chứa dự án rasa pro)

```
(fptbot_env) namdv@namdv-Latitude-5490:~/VSCode/FPTCustomerSupportBot$ cd tutorial/  
(fptbot_env) namdv@namdv-Latitude-5490:~/VSCode/FPTCustomerSupportBot/tutorial$ rasa shell
```

```
Bot loaded. Type a message and press enter (use '/stop' to exit):
```

```
Your input -> transfer 100$ to Joe
```

```
2024-08-15 10:42:58 INFO      openai - message='OpenAI API response' path=https://api.openai.com/v1/embeddings processing_ms=25 request_id=req_0edf705528d62dd92400b4370b3cd929 response_code=200
```

```
2024-08-15 10:42:59 INFO      openai - message='OpenAI API response' path=https://api.openai.com/v1/chat/completions processing_ms=298 request_id=req_709b61f2357de35e88b3648eaa638a20 response_code=200
```

```
2024-08-15 10:43:00 INFO      openai - message='OpenAI API response' path=https://api.openai.com/v1/chat/completions processing_ms=595 request_id=req_fb102f0b68ce76df134e45faf599febb response_code=200
```

```
2024-08-15 10:43:02 INFO      openai - message='OpenAI API response' path=https://api.openai.com/v1/chat/completions processing_ms=472 request_id=req_3bd34c55939672d60c0e0c6d9a08c4de response_code=200
```

```
All done. 100.0 has been sent to Joe.
```

```
Is there anything else I can assist you with?
```

```
Your input -> 
```

