

Innovar OpenAl Plugin

Introduction

Welcome to the OpenAI plugin documentation for Mirth Connect. This plugin is designed to use OpenAI ChatGPT models to provide real-time assistance to JavaScript code development on Mirth Connect. ChatGPT can help to clarify concepts, suggest solutions, provide explanations, and offer guidance on resolving bugs and errors in the code. ChatGPT can also generate the HL7 messages such as ADT, ORU, ORM for testing purposes on Mirth Connect.

Why OpenAI?

OpenAI ChatGPT can help healthcare professionals quickly identify and troubleshoot issues in their JavaScript code, allowing them to address problems faster and more effectively. Ensuring that healthcare software applications are running smoothly and free of bugs is crucial for providing high-quality patient care. Using ChatGPT for debugging can help healthcare professionals deliver reliable and efficient services to their patients.

Key Features

JavaScript code debugger: Innovar OpenAl plugin can help healthcare software engineers quickly identify and troubleshoot issues in their JavaScript code with powerful Al models. The models can understand complex code structures and provide suggestions for debugging, saving time and effort in the development process.

Message generator: Innovar OpenAl plugin allows Mirth Connect engine to connect to ChatGPT and quickly generate standardized HL7 messages based on user input, saving time and effort for healthcare professionals who need specific messages to test their interface. This can streamline communication processes and improve overall efficiency in healthcare delivery.

Getting Started

Before you dive into the documentation, make sure to review the installation prerequisites and check compatibility with your existing Mirth Connect setup. The subsequent sections will guide you through the configuration, usage of the OpenAl plugin to improve the development experience of the interfaces on Mirth Connect.

Let's get started!

Installation

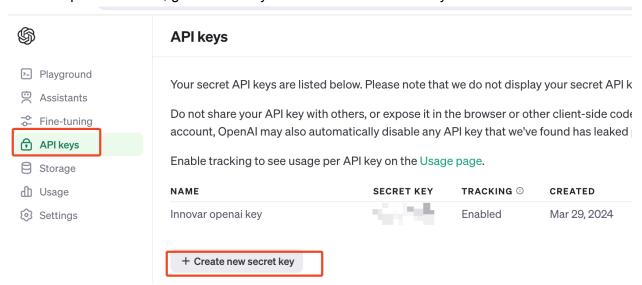
If you are using Mirth Connect packaged by Innovar Healthcare from the AWS Marketplace, the extension should be pre-installed on "Advanced with SSL" and "Advanced with SSL Autoscaling" versions starting with version 4.5 and greater.

If, for some reason, you need to reinstall or update the plugin, you can do this from the Mirth Connect Administrator application. While logged into Mirth Connect Administrator, click on "Extensions", then at the bottom of the screen, click "Browse". A new window will pop up to allow you to browse for your plugin zip file on your local machine. Browse to the appropriate zip file and click "Open". Once back on the Extensions screen, your file path should be filled in. Click "Install" to upload the file. Once completed, you will need to restart the Mirth Connect Service on the remote server.

OpenAl Account/API Setup

Create your OpenAl api key

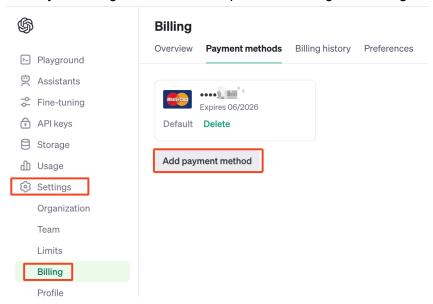
If you do not already have a key, please create/login <a>OpenAI to create your api key. 1.In the OpenAI console, got to "API keys" > "Create new secret key"



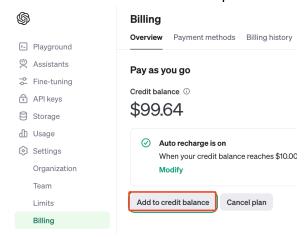
2. Give a name for your key and click "create secret key".

Please make sure you save your api key at a safe location.

3.Add your billing information on OpenAI. Please go to Settings > Billing > Add payment method



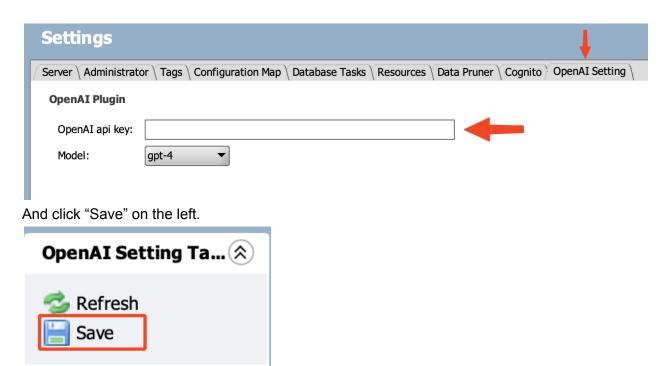
4. Click "Add to credit balance" to purchase the credits.



Now your OpenAI api key is ready!

Plugin Setup

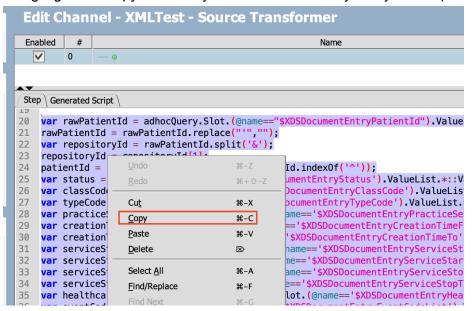
In the Mirth Connect Administrator window, click on Settings. You will see a new tab for "OpenAl Setting" and enter your OpenAl api key.



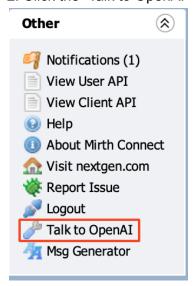
Plugin Usage

Javascript code debugger

1. Highlight and copy the code you want reviewed to your system clipboard.



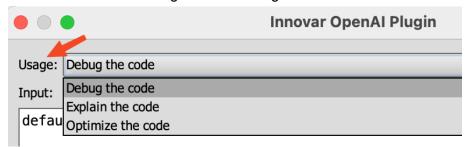
2. Click the "Talk to OpenAI" option on the Other task panel.



3. You can copy a section of JavaScript code in transformer step, code template or Global scripts

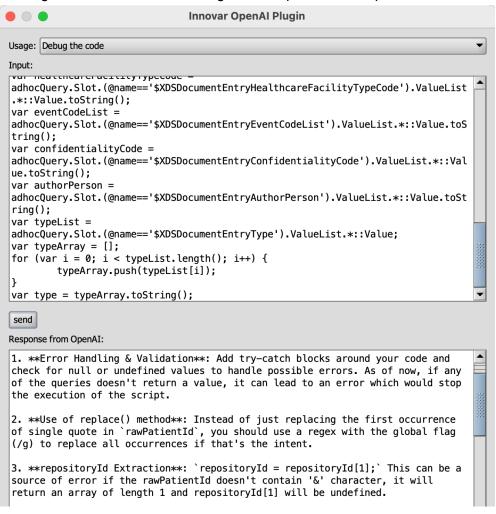


- 4. Click "send"
- 5. There are different usages in the Dialog



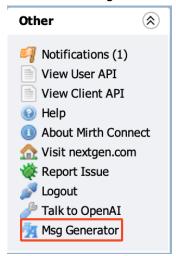
- Debug the code: requests OpenAI to review the code for errors and help correct it
- Explain the code: requests OpenAl to explain what the copied code block is doing in user-friendly terms. It may also add comments to the code.
- Optimize the code: requests OpenAI to review the code to see if it can be optimized, cleaned up, or otherwise made better/more efficient

6. It might take a few moments to get the response from OpenAI.

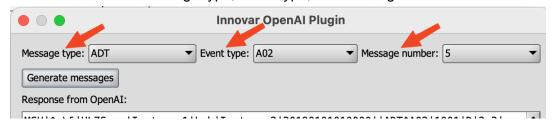


Message Generator

1. Click the "Msg Generator" option on the Other task panel.



2. Please select the message type, event type, and message number



3. Click "Generate messages". It might take a few moments to get the response from OpenAI. Here is an example response from OpenAI

