

TravelAI User Guide

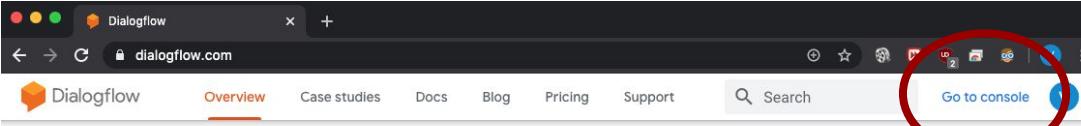
In your terminal, cd to your desired directory to store the TravelAI files, and type in the following command:

- \$ git clone <https://github.com/mecarill/IRS-MRS-2020-05-10-IS02PT-GRP09-TravelAI.git>

Setting up Dialogflow

Plus webhook from ngrok

Go to dialogflow.com, click **Go to console**



The screenshot shows the Dialogflow website's homepage. At the top right, there is a red circle highlighting the "Go to console" button. Below the header, there is a large section with the heading "Build natural and rich conversational experiences". To the right of this text is a video thumbnail titled "Intro to Dialogflow" featuring a woman at a computer. Below the main text and video are three columns of text: "Powered by Google's machine learning", "Built on Google infrastructure", and "Optimized for the Google Assistant".

Build natural and rich conversational experiences

Give users new ways to interact with your product by building engaging voice and text-based conversational interfaces, such as voice apps and chatbots, powered by AI. Connect with users on your website, mobile app, the Google Assistant, Amazon Alexa, Facebook Messenger, and other popular platforms and devices.

[Sign up for free](#)

Powered by Google's machine learning

Dialogflow incorporates Google's machine learning expertise and products such as Google Cloud Speech-to-Text.

Built on Google infrastructure

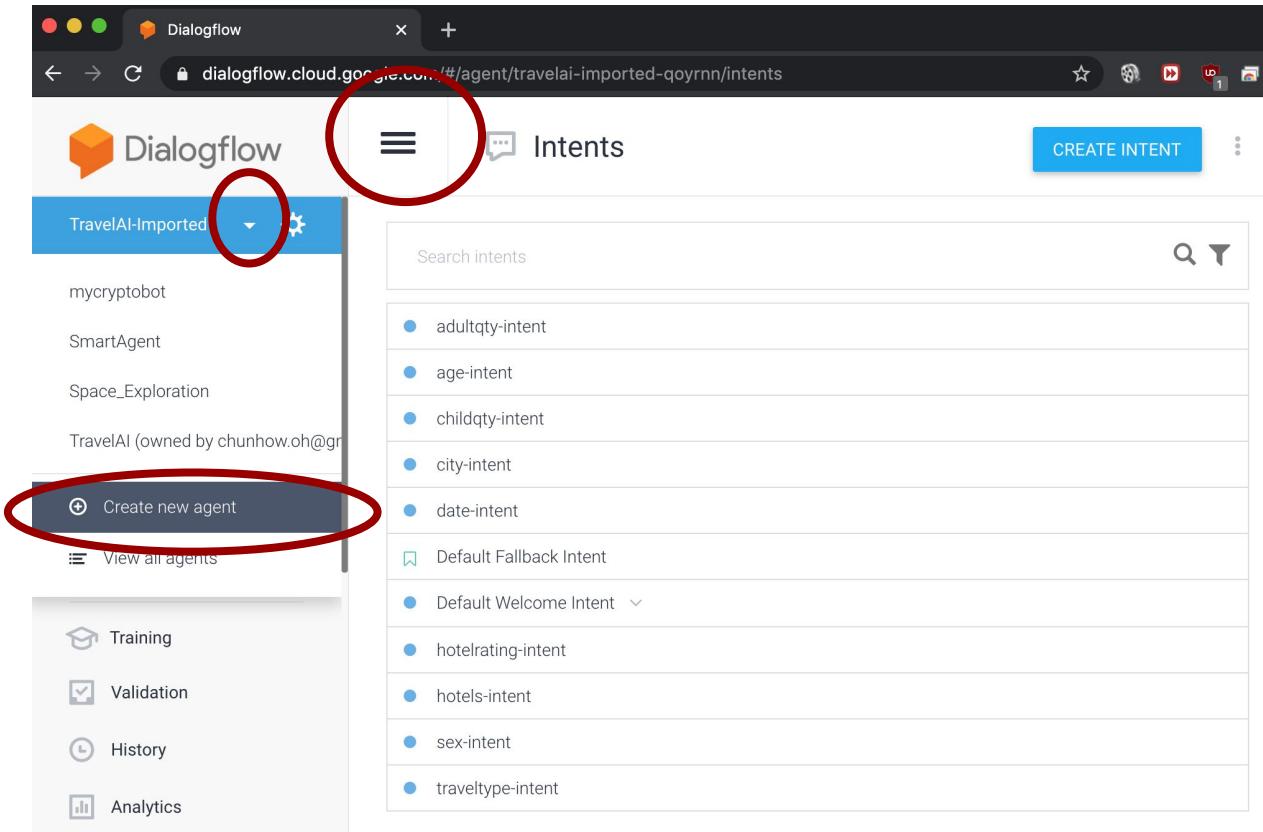
Dialogflow is a Google service that runs on Google Cloud Platform, letting you scale to hundreds of millions of users.

Optimized for the Google Assistant

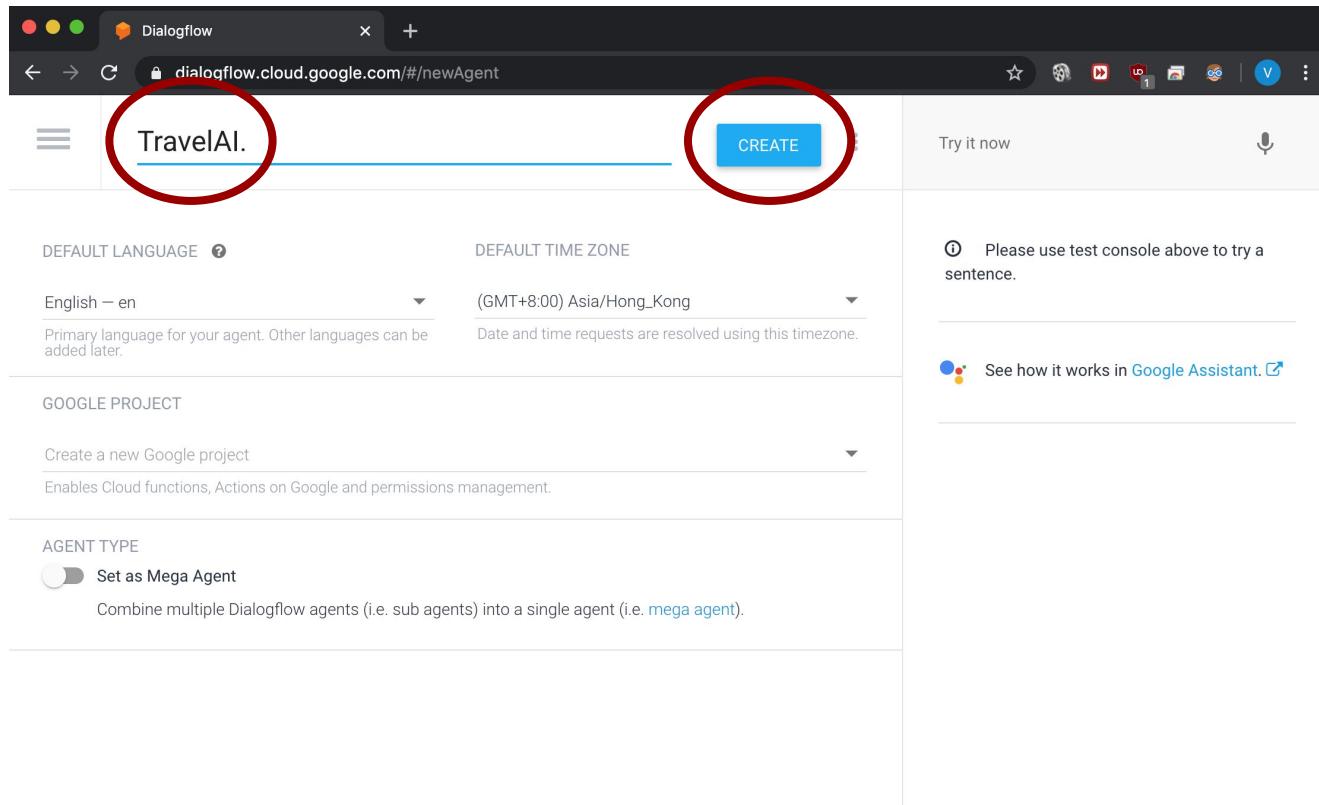
Dialogflow is the most widely used tool to build Actions for more than 400M+ Google Assistant devices.

Dialogflow is a Google service that runs on Google Cloud Platform, letting you scale to hundreds of millions of users.

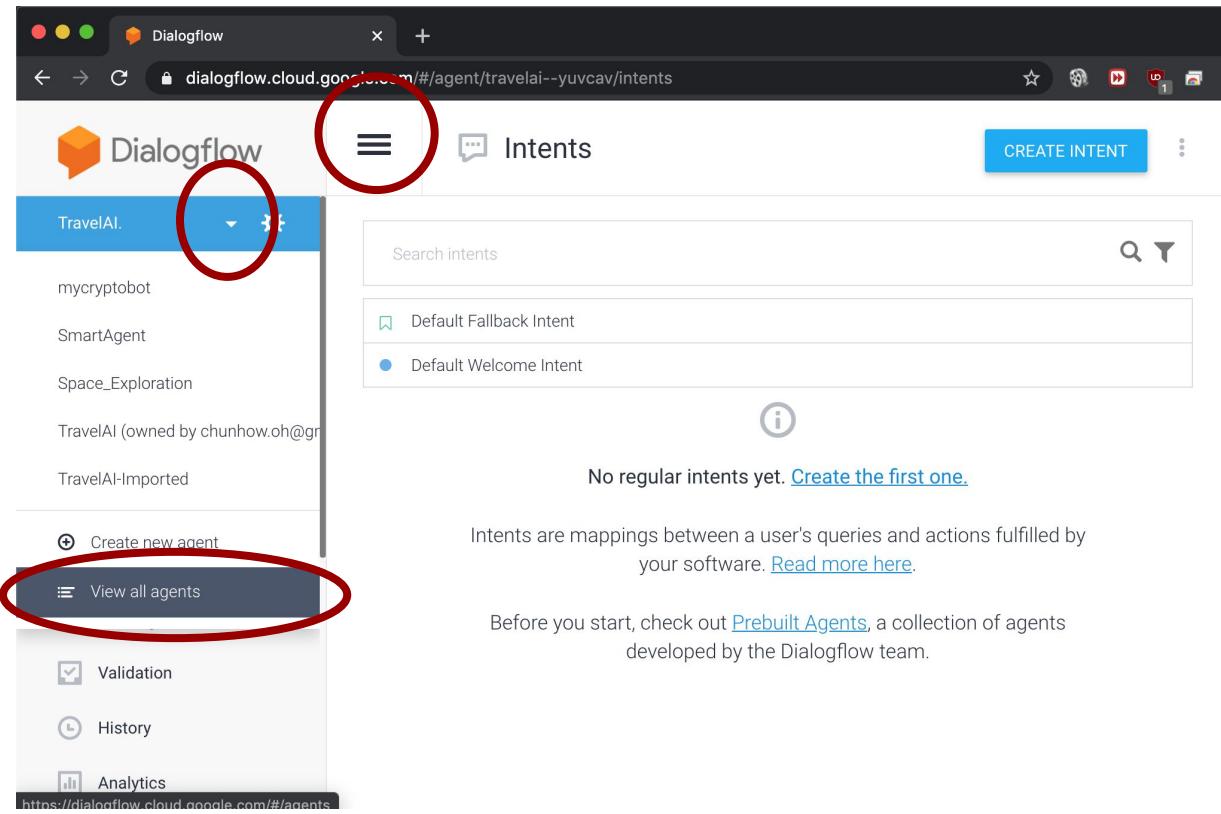
In the top left hand corner, click on the three **horizontal lines** representing the menu, click on the **down arrow**, and click **Create new agent**



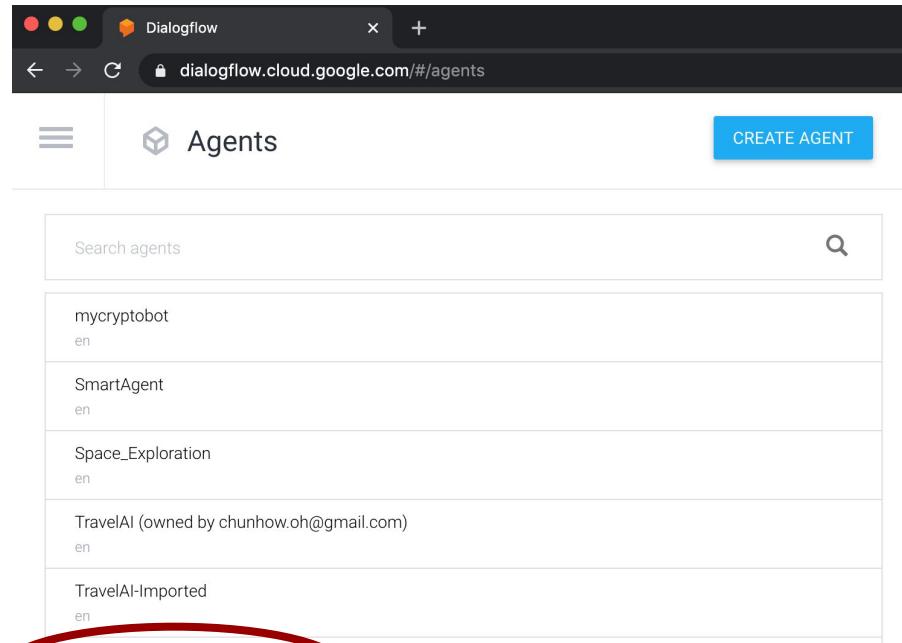
Enter a name for the agent and click **CREATE**



In the top left hand corner, click on the three **horizontal lines** representing the menu, click on the **down arrow**, and click **View all agents**



Click on the newly created agent. In this case, it is TravelAI.



The screenshot shows the Dialogflow interface on a web browser. The title bar says "Dialogflow" and the URL is "dialogflow.cloud.google.com/#/agents". On the left, there's a sidebar with three horizontal lines. The main area has a header "Agents" with a search bar below it containing "Search agents" and a magnifying glass icon. To the right of the search bar is a blue "CREATE AGENT" button. Below the search bar is a list of agents:

- mycryptobot
- en
- SmartAgent
- en
- Space_Exploration
- en
- TravelAI (owned by chunhow.oh@gmail.com)
- en
- TravelAI-Imported
- en
- TravelAI.
- en

A large red oval highlights the "TravelAI." entry in the list.

Go to the **Export and Import** tab, click **IMPORT FROM ZIP**

The screenshot shows the Dialogflow agent editor interface. At the top, the title bar reads "Dialogflow" and the URL is "dialogflow.cloud.google.com/#/editAgent/travelai--yuvcav/". Below the title bar, there's a navigation menu with icons for Home, Agent, Intents, Entities, Fulfillment, and Test. The main content area has a sidebar on the left with sections for General, Languages, ML Settings, Export and Import (which is currently selected), Environments, Speech, Share, and Advanced. In the center, there's a "TravelAI." agent card with a "SAVE" button and a "Try it now" button. On the right, there's a note: "Please use test console above to try a sentence." Below this, there are three buttons: "EXPORT AS ZIP", "RESTORE FROM ZIP", and "IMPORT FROM ZIP". The "IMPORT FROM ZIP" button is circled in red.

TravelAI.

General Languages ML Settings **Export and Import** Environments Speech Share Advanced

EXPORT AS ZIP Create a backup of the agent

RESTORE FROM ZIP Replace the current agent version with a new one. All the intents and entities in the older version will be deleted.

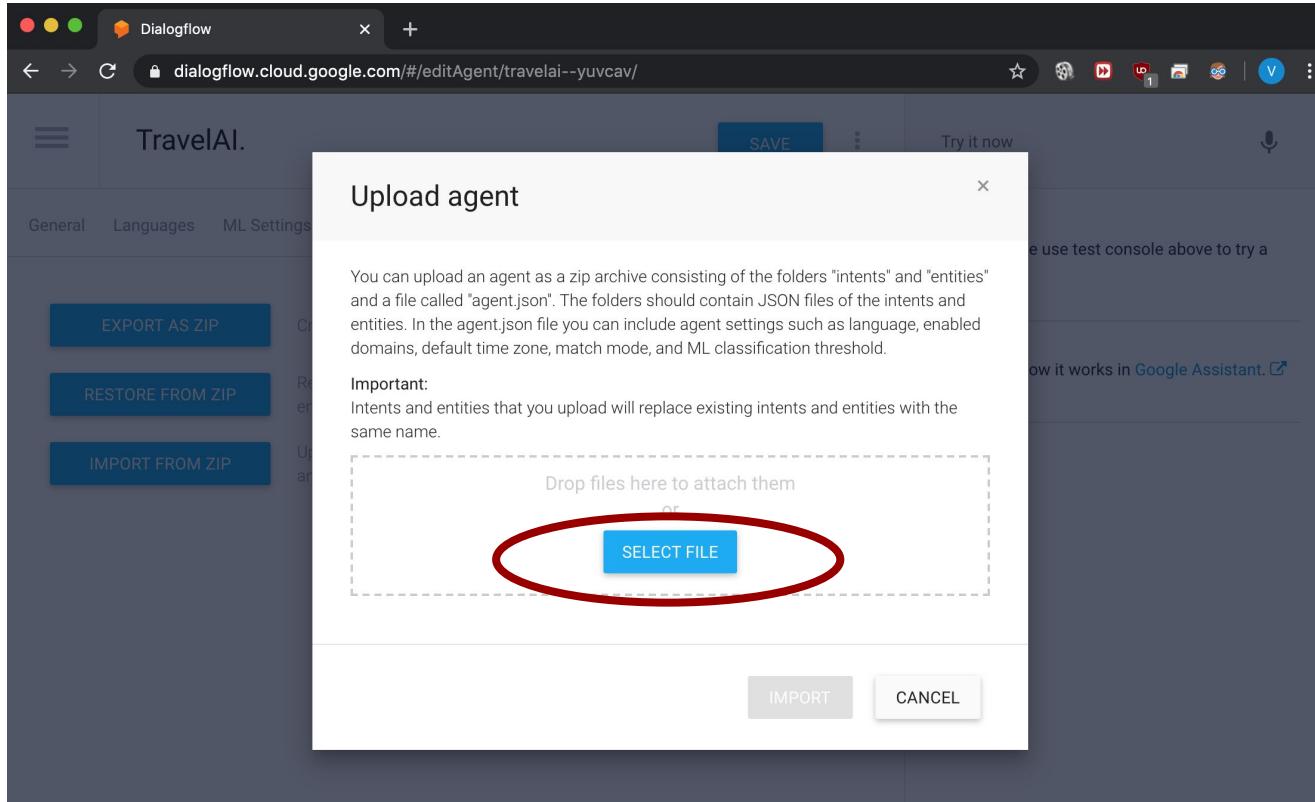
IMPORT FROM ZIP Upload new intents and entities without deleting the current ones. Intents and entities with the same name will be replaced with the newer version.

Try it now

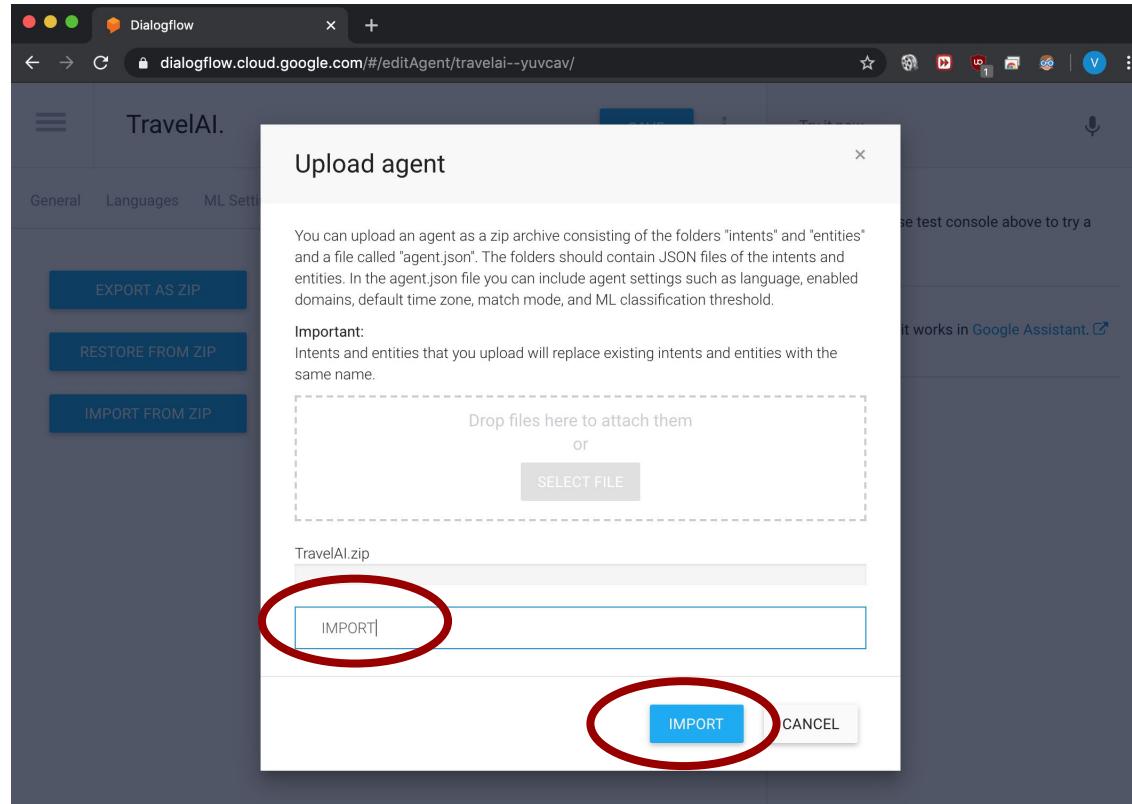
Please use test console above to try a sentence.

See how it works in [Google Assistant](#).

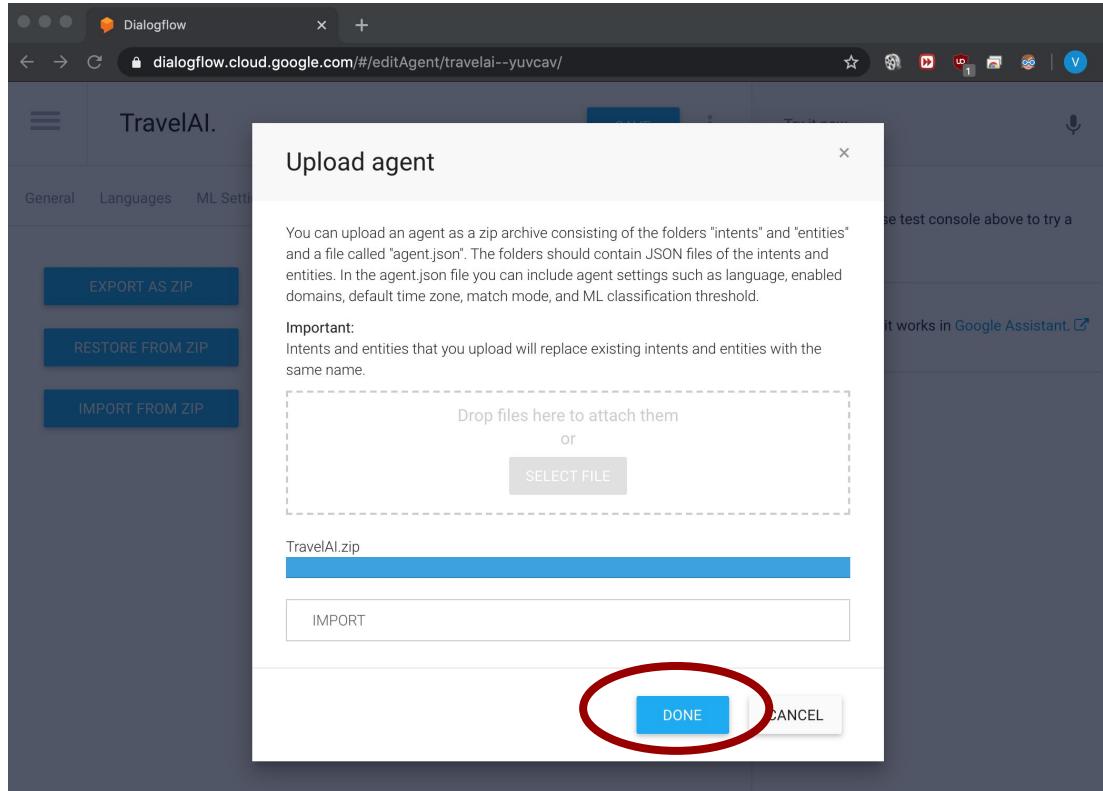
In your local folders, under SystemCode, select file **TravelAI.zip**, the zip file that was pulled from Git.



Type “**IMPORT**” and click on the **IMPORT** button



Click **DONE**



Go to the menu (3 lines), click on the down arrow, and click on **Fulfillment** tab

The screenshot shows the Dialogflow agent edit interface. On the left, there is a navigation sidebar with the following items:

- TravelAI.
- Intents
- Entities
- Knowledge [beta]
- Fulfillment** (highlighted with a red oval)
- Integrations
- Training
- Validation
- History
- Analytics
- Prebuilt Agents

The main content area has a title "TravelAI." and a "General" tab selected. Other tabs include Languages, ML Settings, Export and Import, Environments, Speech, Share, and Advanced. A "SAVE" button is at the top right. To the right of the tabs, there is a "Try it now" section with a sample message and a "See" button. Below the tabs, there are sections for "DESCRIPTION" (with a placeholder "Describe your agent") and "DEFAULT TIME ZONE" (set to "(GMT+8:00) Asia/Hong_Kong"). Under "GOOGLE PROJECT", the "Project ID" is listed as "travelai-yuv cav" and the "Service Account" is "dialogflow-naukfl@travelai-yuv cav.iam.gserviceaccount.com". At the bottom, the "API VERSION" is set to "V2 API" with a note about using Cloud API as default. A URL "https://dialogflow.cloud.google.com/#/agent/travelai--yuv cav/fulfillment" is shown at the bottom left.

Stay on this webpage, we will come back to it **later** to **Enter a URL**

The screenshot shows the Dialogflow Fulfillment settings interface. At the top, there's a navigation bar with three dots, the Dialogflow logo, and a search bar containing the URL `dialogflow.cloud.google.com/#/agent/travelai--yuvca/v/fulfillment`. Below the navigation is a sidebar with a menu icon and a lightning bolt icon labeled "Fulfillment". The main content area has a title "Webhook" with an "ENABLED" toggle switch (which is turned on). A descriptive text explains that the service will receive POST requests from Dialogflow for intents with webhook enabled, and links to "webhook requirements". Below this, there's a "URL*" field with placeholder "Enter URL" and a note: "This url will receive a POST request from Dialogflow every time the webhook is triggered by an intent." There are also sections for "BASIC AUTH", "HEADERS" (with two rows for key-value pairs), and a "SMALL TALK" section with a dropdown menu.

Dialogflow

dialogflow.cloud.google.com/#/agent/travelai--yuvca/v/fulfillment

Fulfillment

Webhook

ENABLED

Your web service will receive a POST request from Dialogflow in the form of the response to a user query matched by intents with webhook enabled. Be sure that your web service meets all the [webhook requirements](#) specific to the API version enabled in this agent.

URL* This url will receive a POST request from Dialogflow every time the webhook is triggered by an intent.

BASIC AUTH

HEADERS

Enter key	Enter value
Enter key	Enter value

Add header

SMALL TALK

Disable webhook for Smalltalk

Download ngrok.exe or ngrok binary to your machine from ngrok.com.

In the terminal

- cd into the folder holding ngrok.exe
- execute command: ngrok.exe http 3000
- copy the https link into the Google's Dialogflow URL holder.
- Add "/webhook" at the end of the URL'
- Press **SAVE**

Webhook

ENABLED

Your web service will receive a POST request from Dialogflow in the form of the response to a user query matched by intents with webhook enabled. Be sure that your web service meets all the [webhook requirements](#) specific to the API version enabled in this agent.

URL*

BASIC AUTH

HEADERS

+ Add header

SMALL TALK

Inline Editor (Powered by Google Cloud Functions)

DISABLED

Build and manage fulfillment directly in Dialogflow via Cloud Functions. [Docs](#)

```
index.js package.json
48/ conv.ask('Hello from the Actions on Google client library!') /
49/ agent.add(conv); // Add Actions on Google library responses to
50/ }
51/ // See https://github.com/dialogflow/fulfillment-actions-library
52/ // for a complete Dialogflow fulfillment library Actions on Goog
53|
54/ Run the proper function handler based on the matched Dialogflow
55at intentMap = new Map();
56intentMap.set('Default Welcome Intent', welcome);
57intentMap.set('Default Fallback Intent', fallback);
58/ intentMap.set('your intent name here', yourFunctionHandler);
59/ intentMap.set('your intent name here', googleAssistantHandler);
60gent.handleRequest(intentMap);
61|
62|
```

SAVE

CS2 — ngrok http 3000 — 90x30

```
...ster/TravelAI-master — bash ...er/TravelAI-master — bash .../CS2 — ngrok http 3000 + (Ctrl+C to quit)
ngrok by @inconschreveable

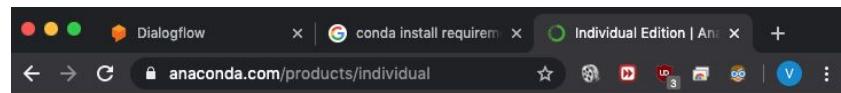
Session Status          online
Session Expires         6 hours, 19 minutes
Version                 2.3.35
Region                  United States (us)
Web Interface           http://127.0.0.1:4040
Forwarding              http://20c404ca.ngrok.io -> http://localhost:3000
Forwarding              https://20c404ca.ngrok.io -> http://localhost:3000

Connections             ttl     opn      rt1      rt5      p50      p90
                        24       0       0.00     0.00    5.01     5.04
```

Installing dependencies

Requirements.txt, node.js

Download and install ANACONDA from <https://www.anaconda.com/products/individual>



Individual Edition

Your data science toolkit

With over 20 million users worldwide, the open-source Individual Edition (Distribution) is the easiest way to perform Python/R data science and machine learning on a single machine. Developed for solo practitioners, it is the toolkit that equips you to work with thousands of open-source packages and libraries.

Download

Download and install Node.js from <https://nodejs.org/en/download/>



Downloads

Latest LTS Version: 12.16.3 (includes npm 6.14.4)

Download the Node.js source code or a pre-built installer for your platform, and start developing today.

LTS Recommended For Most Users	Current Latest Features
 Windows Installer <small>node-v12.16.3.msi</small>	 macOS Installer <small>node-v12.16.3.pkg</small>

[Windows Installer \(.msi\)](#)

[Windows Binary \(.zip\)](#)

[macOS Installer \(.pkg\)](#)

[macOS Binary \(.tar.gz\)](#)

[Linux Binaries \(x64\)](#)

[Linux Binaries \(ARM\)](#)

[Source Code](#)

32-bit	64-bit
32-bit	64-bit
	64-bit
	64-bit
	64-bit
ARMv7	ARMv8
	node-v12.16.3.tar.gz

Additional Platforms

[SmartOS Binaries](#)

[Docker Image](#)

[Linux on Power LE Systems](#)

[Linux on System z](#)

[AIX on Power Systems](#)

64-bit
Official Node.js Docker Image
64-bit
64-bit
64-bit

- Signed [SHASUMS](#) for release files ([How to verify](#))
- All download options
- Installing Node.js via package manager
- Previous Releases
- Nightly builds
- Unofficial builds
- Building Node.js from source on supported platforms

In your terminal, cd to SystemCode folder, and enter the following

- \$ conda create -n travelai python
- \$ conda activate travelai
- \$ pip install -r requirements.txt
- \$ npm install

Getting Credentials for API

Amadeus API

Go to <https://developers.amadeus.com/>.

Click on the blue button “**Register**” at the top right-hand corner

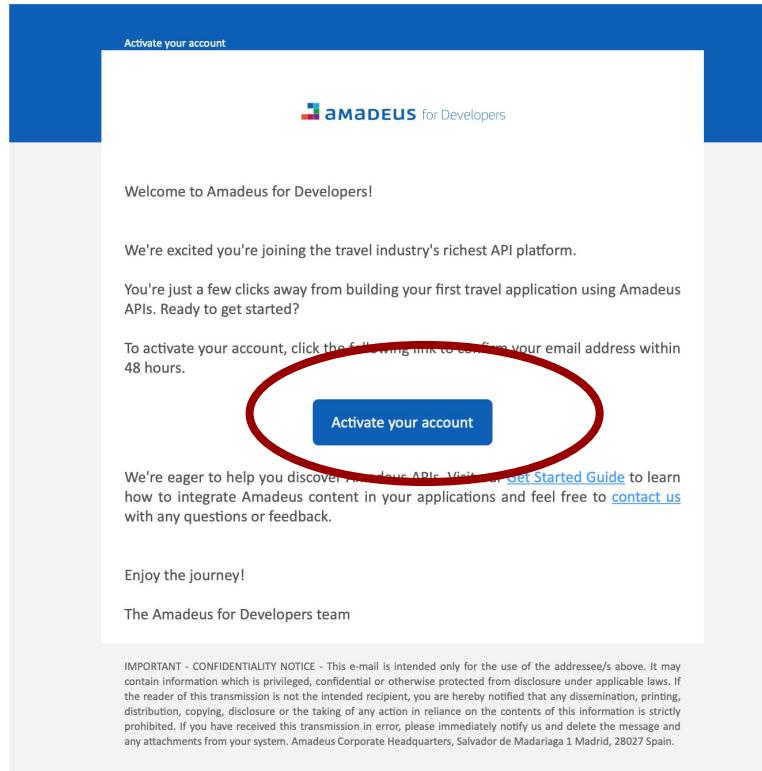
The screenshot shows a web browser window with the Amadeus Developers website loaded. The page has a dark header bar with the Amadeus logo and navigation links for "Self-Service APIs", "Enterprise APIs", "Blog", and "Support". In the top right corner, there are two buttons: "Register" (highlighted with a red circle) and "Sign in". Below the header is a large banner with the text "Build the future of travel" and a subtext about Amadeus Travel APIs connecting users to the travel industry. A "Get started" button is visible on the left side of the banner. At the bottom of the banner, there is a warning message: "⚠ Flight Low-fare Search will be decommissioned on May 28, 2020. Please migrate to Flight Offers Search. [Learn more](#)". The main content area below the banner features the text "Discover our APIs" and a subtext about Amadeus APIs allowing developers to build high-quality apps. To the right of this text is a decorative graphic of a 3D airplane flying over a landscape of geometric shapes like cubes and clouds.

Fill in details. When done, click on button “Create account”

The screenshot shows a web browser window with the URL developers.amadeus.com/register. The page title is "Register | Amadeus for Developers". The main heading is "Create an account". Below it, there's a note for existing users ("Already have an Account? [Sign In](#)") and a note for developers ("By submitting this form you will only get instant access to test Self-Service APIs, which allow you to connect to selected travel content. If you are developing an application for an [airline](#) or you have any specific business needs, please [request access](#) to our Enterprise APIs catalogue."). The form fields are as follows:

- First name* (text input field: "Your first name")
- Last name* (text input field: "Your last name")
- Country* (dropdown menu)
- Email* (text input field: "Your email")
- Business area* (dropdown menu)
- Full legal company name (if applicable) (text input field: "Your company name (if applicable)")
- Password* (text input field: "Enter a password" with eye icon)
- Confirm password* (text input field: "Repeat password" with eye icon)
- A small note below the password fields: "Use: 8 characters minimum and include at least one number, 1 special character, one capital letter and one lowercase letter"
- A CAPTCHA field showing "VMTWB3EY" with a refresh icon.
- A text input field for "Type the text above*" containing "VMTWB3EY".
- A red circle highlights the checkbox agreement section.
- The checkbox text: "I hereby agree to the [term of use](#), the [privacy policy](#) and the [cookies policy](#) of the Amadeus for Developers Portal."
- A large red circle highlights the "Create account" button.

Go to your email and click on the **Activate your account**



Enter your password, and press **Activate your account**.

The screenshot shows a web browser window with multiple tabs open. The active tab is titled "Activate your account | Amadeus" and has the URL "developers.amadeus.com/activate-account?userId=kikopong@hotmail.com&activationKey=15890263...". The page content is a registration form with a red oval highlighting the "Activate your account" button.

Platform for Amadeus Developers | Amadeus for Developers | Mail - Veronica Ioy - Outlook | Activate your account | Amadeus

developers.amadeus.com/activate-account?userId=kikopong@hotmail.com&activationKey=15890263...

amADEUS for Developers Self-Service APIs Enterprise APIs Blog Support Register Sign In

Your registration is still not complete
You need to sign in to activate your account.

Email
kikopong@hotmail.com

Password*
.....

Activate your account

Legal Cookies policy Privacy policy amadeus.com Amadeus Partner Network

YouTube Facebook Twitter

Click on your **username** (top right corner), Go to [My Self-Service Workspace](#)

The screenshot shows a web browser window with three tabs open: 'Amadeus for Developers', 'Mail - Veronica Ioy - Outlook', and 'Connect to Amadeus travel API'. The main content area features a large image of a city skyline at night with a flying airplane. The text 'Build the future of travel' is displayed, along with a message about Amadeus Travel APIs connecting users to rich travel information and encouraging them to play, innovate, and launch applications. A 'Get started' button is visible. A red oval highlights the user profile menu in the top right corner, which includes options for 'My Account', 'My Self-Service Workspace', and 'Log out'. At the bottom, there is a warning message about the decommissioning of Flight Low-fare Search and a call to migrate to Flight Offers Search, followed by a 'Learn more' link. The footer contains a 'Discover our APIs' section and a link to 'https://developers.amadeus.com/my-apps'.

Build the future of travel

Amadeus Travel APIs connect you to the richest information in the travel industry. Now you can play, innovate and launch your application.

Get started

Flight Low-fare Search will be decommissioned on May 28, 2020. Please migrate to Flight Offers Search. [Learn more](#)

Discover our APIs

Whether you are a developer, a startup or a leading travel brand, Amadeus APIs allow you to build up high-quality apps.

<https://developers.amadeus.com/my-apps>

Click on **Create New App** button

The screenshot shows a web browser window for the Amadeus Developers portal at developers.amadeus.com/my-apps. The page title is "Connect to Amadeus travel API". The main content area displays the message "You have 0 Self-Service apps" and a call-to-action button labeled "Create new app". This button is highlighted with a large red oval. On the left, there is a sidebar with sections for "My Self-Service Workspace", "My apps", and "API usage and quota". The top navigation bar includes links for "Self-Service APIs", "Enterprise APIs", "Blog", "Support", and "User Guide". The footer contains links for "Legal", "Cookies policy", "Privacy policy", "amadeus.com", "Amadeus Partner Network", and social media icons for YouTube, Facebook, and Twitter.

Connect to Amadeus travel API

developers.amadeus.com/my-apps

AMADEUS for Developers

Self-Service APIs Enterprise APIs Blog Support User Guide

My Self-Service Workspace / My apps

You have 0 Self-Service apps

Create your first app to get an API key
And start testing all Amadeus Self-Service APIs in just a few minutes.

Create new app

My apps

API usage and quota

Legal Cookies policy Privacy policy amadeus.com Amadeus Partner Network

YouTube Facebook Twitter

Enter your application details and click on **Create**

The screenshot shows a web browser window for the Amadeus Developers portal at developers.amadeus.com/my-apps. The page title is "Connect to Amadeus travel API". The main content area is titled "Create new app". It includes fields for "App name *" (containing "userguide"), "Targeted to(optional)" (with checkboxes for "Business to consumer" and "Business to business" both unchecked), and "Description(optional)" (with a placeholder "Enter a description"). Below these fields is a red oval highlighting the "Create" button. At the bottom of the form, it says "You have 0 Self-Service apps". The left sidebar shows sections for "My apps" and "API usage and quota". The top navigation bar includes links for "Self-Service APIs", "Enterprise APIs", "Blog", "Support", and "User Guide".

Click on **Get production environment**

The screenshot shows a web browser window for the Amadeus Developers userguide. The URL is `developers.amadeus.com/my-apps/userguide?userId=kikopong@hotmail.com`. The page title is "userguide".

Application Info:

- App name:** userguide
- Targeted to:** None. Click on the pencil to provide this information
- Description:** userguide

Enrich your travel app with Flight Create Orders API

Allow your app to book flights and ancillary services proposed by the airlines like additional checked bags or seats with extra-legroom.

Stack it up

App Keys (selected) **App analytics**

You can use these keys to consume all our Self-Service APIs. To learn more about how our APIs work check the [get started](#) section.

Note: After moving to production, don't forget to update your app with the production keys and the base URL. Be informed that it may take up to 30 minutes before your API Keys are active once you have them.

Important: Don't add any personal info when testing this app in Sandbox. [See more](#)

Test keys | Base URL: test.api.amadeus.com

API Key	JeRU8doRY1JVIX7UFR4eZOXjI7f4ix5
API Secret	*****

Production key not requested

You are only using our testing environment for this app.

Note: After moving to production, don't forget to update your app with the production keys and the base URL.

Get production environment

Enter values in the compulsory field and click **Next**

Amadeus Developers | Amadeus + developers.amadeus.com/my-apps/userguide/move-to-production?userId=kikopong...

AMADEUS for Developers Self-Service APIs Enterprise APIs Blog Support will

Personal information

Email*
kikopong@hotmail.com

First name*

Last name *

Your country*

Phone number

Select your profile

Individual developer Working on behalf of a company

Billing address

Address*

Town/city*

Zip Code*

App information

App Name*

Describe briefly the type of APP you want to launch*
Hint: What is the purpose of the APP you developed? What is it about?

App information
 Business to consumer Business to business

Does your app use an API that requires validation?
 Yes No

Next

Enter your credit card details and click **next**

AMADEUS for Developers Self-Service APIs Enterprise APIs Blog Support User Guide ▾

/ My Self-Service Workspace / My apps / userguide / Request production environment

Request production Environment

1 Personal & Billing info 2 Payment method 3 Sign agreement & confirm

>Payment method
Please review and update your personal and app information. The information provided will be used for billing purposes only.

Credit card
 Bank transfer

Heads up! This is how the access to production works
Since this is the first time you move an app to production, you will need to sign a contract and provide your payment information. Additional apps will not require this process.

Card details

Cardholder name *
user guide

Card type *
 Mastercard

Card number *
Please fill in the required fields.

Expiry date *
May 2020

BACK NEXT

Check the tick box, click **continue**

Personal information

Email: kikopong@hotmail.com
Name: User Guide
Phone number: 67648408

Billing address

Address: Jurong West Street 41
Town/city: Singapore
Zip Code: 640468
Your country: Singapore

App Information

Description: flight booking
Payment method: We will use your filed payment method for this and all future new apps. If you have any questions about this instance, please contact us.

Sign agreement

Please Review & Act on These Documents

Amadeus for Developers
IT GROUP SOCIEDAD ANONIMA.

AMADEUS
Powered by DocuSign

Please read the Electronic Record and Signature Disclaimer
 I agree to use electronic records and signatures.

CONTINUE OTHER ACTIONS ▾

The Amadeus for Developers portal ("Portal") is divided in three main sections: (i) the general introduction of the Portal, (ii) the Self-Service section and (iii) the Enterprise section. The Self-Service and Enterprise sections are themselves divided in two environments: Test and Production. These Terms of Use will cover Your access to and usage of the Production environment of the Self-Service section.

1. SCOPE

1.1 The other environments of the Portal will be subject to other terms and conditions, which we will communicate to You when You access them.

1.2 For Your convenience provide on the right column a summary of some of the provisions of these Terms of Use in plain English. You understand and agree that this summary is provided for convenience only, is not part of the Terms of Use and in no way will modify or supersede the Terms of Use.

1.4 The (ii) Enterprise environment service interface available on the Portal. Your use of the Portal and the API is subject to:

Powered by DocuSign | Change Language - English (US) | Copyright © 2020 DocuSign Inc. | v0.1

BACK

Scroll all the way down the mini document, click Finish, click sign

Select the sign field to create and add your signature.

FINISH OTHER ACTIONS ▾

Name of the represented entity (N/A if You entering this Agreement as an individual):

Address:

NEXT

Required - Sign Here
Sign 

Date of signature:
09 May 2020 | 16:16:00 CEST



Powered by DocuSign

Change Language - English (US) | Copyright © 2020 DocuSign Inc. | V2R

Click ADOPT AND SIGN

Sign agreement

Confirm your name, initials, and signature.

* Required

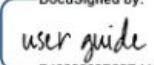
Full Name*

Initials*

SELECT STYLE **DRAW** **UPLOAD**

PREVIEW [Change Style](#)

DocuSigned by:


user guide
E4339363E25D416...


DS
UG

By selecting Adopt and Sign, I agree that the signature and initials will be the electronic representation of my signature and initials for all purposes when I (or my agent) use them on documents, including legally binding contracts - just the same as a pen-and-paper signature or initial.

ADOPT AND SIGN **CANCEL**

Submitted by DocuSign

[Change Language - English \(US\)](#) | Copyright © 2020 DocuSign Inc. | V2R

BACK

Enter fields in **RED**. Click **FINISH**

Sign agreement

Done! Select Finish to send the completed document.

FINISH OTHER ACTIONS ▾

Name of the signatory: **user guide**

Name of the represented entity (N/A if You entering this Agreement as an individual):
userguide
Required
iss

Signature:
DocuSigned by
user guide
E430993E25D416

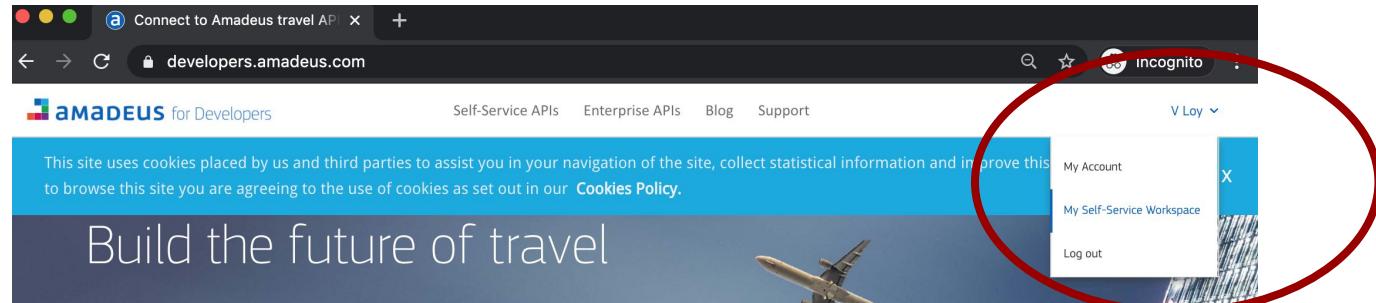
Date of signature:
09 May 2020 | 16:22:32 CEST

Powered by **DocuSign**

Change Language - English (US) | Copyright © 2020 DocuSign Inc. | V2R

BACK

Click on your **username** (top right corner), Go to [My Self-Service Workspace](#)

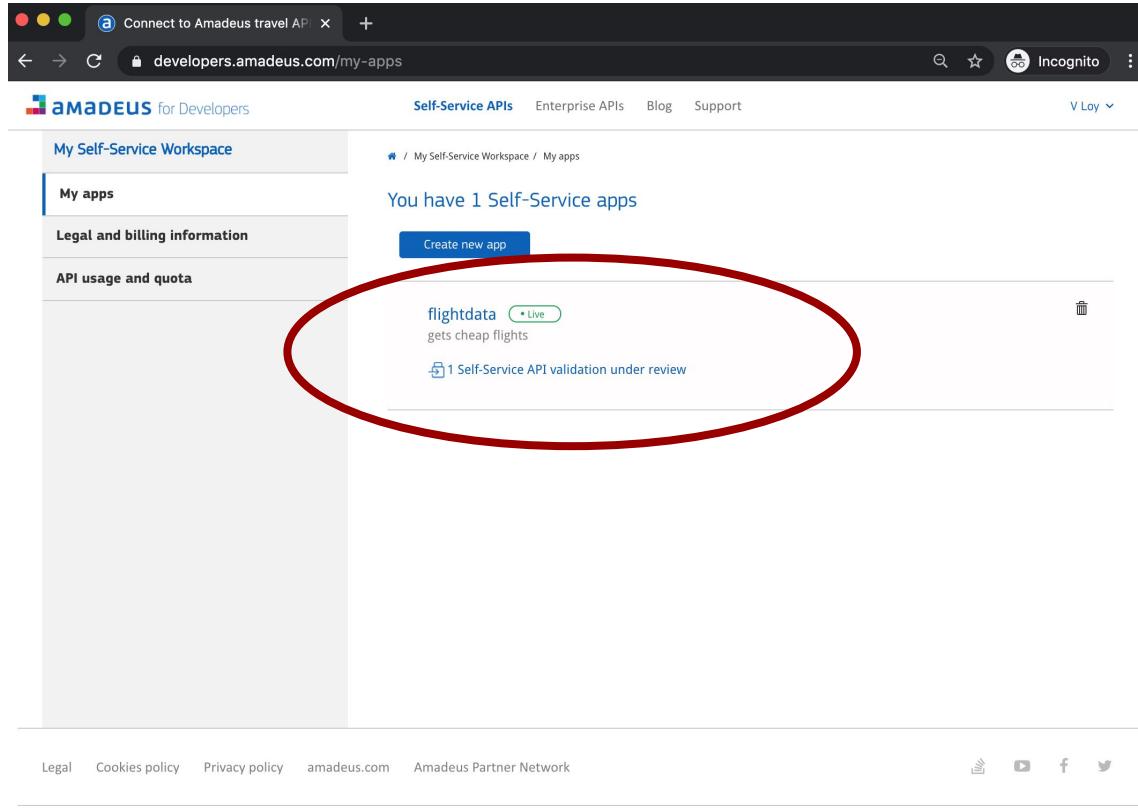


Discover our APIs

Whether you are a developer, a startup or a leading travel brand, Amadeus APIs allow you to build up high-quality apps.



Click on your app



The screenshot shows a web browser window for the Amadeus Developers portal at developers.amadeus.com/my-apps. The page title is "Connect to Amadeus travel API". The main content area displays the "My Self-Service Workspace" with the "My apps" tab selected. A message indicates "You have 1 Self-Service apps". A single app entry is listed: "flightdata" (status: Live), described as "gets cheap flights". Below this entry is a note: "1 Self-Service API validation under review". A large red oval highlights the "flightdata" entry.

My Self-Service Workspace

My apps

Self-Service APIs Enterprise APIs Blog Support

You have 1 Self-Service apps

Create new app

flightdata (Live)
gets cheap flights

1 Self-Service API validation under review

Legal Cookies policy Privacy policy amadeus.com Amadeus Partner Network

Incognito

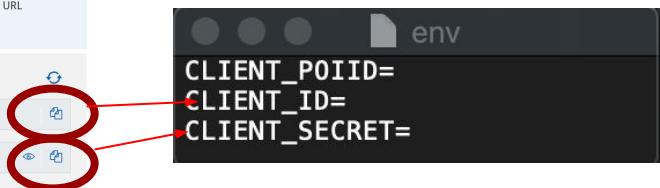
Copy your API Key and API Secret

Navigate to the SystemCode folder, open the **.env** file

Paste the client_id and client_secret into the fields respectively (second and third row here)

Note that it may take up to 30 minutes before your API keys are active once you have them.

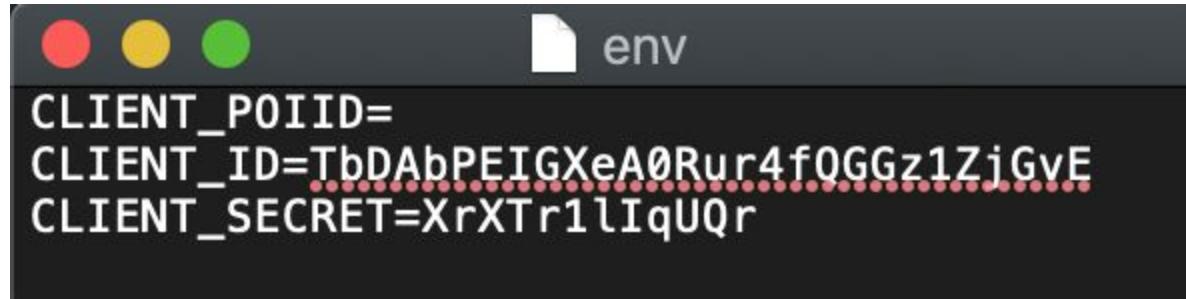
The screenshot shows the Amadeus Developers API requests page. At the top, there's a navigation bar with links for Self-Service APIs, Enterprise APIs, Blog, and Support. Below the navigation is a search bar and an Incognito mode button. The main content area has a large blue icon of a briefcase with an arrow pointing right, labeled "API requests". Below the icon, there are two tabs: "App Keys" (which is selected) and "App analytics". Under the "App Keys" tab, there's a note: "You can use these keys to consume all our Self-Service APIs. To learn more about how our APIs work check the [get started](#) section." A note below that says: "Note: After moving to production, don't forget to update your app with the production keys and the base URL. Be informed that it may take up to 30 minutes before your API Keys are active once you have them." The "Test keys" section shows a Base URL of "test.api.amadeus.com". It contains fields for "API Key" (value: TgPKtpctmgzj5qO67vnOVin4s2F50bb2) and "API Secret" (value:). The "Production keys" section shows a Base URL of "api.amadeus.com". It also contains fields for "API Key" (value: TbDAbPEIGXeA0RuFtcCr4fQGGz1ZjGvE) and "API Secret" (value:). Both sections have copy and paste icons next to the key fields.



Be informed that it may take up to 30 minutes before your API keys are active once you have them.

End result of the env.sh file should look something like this.

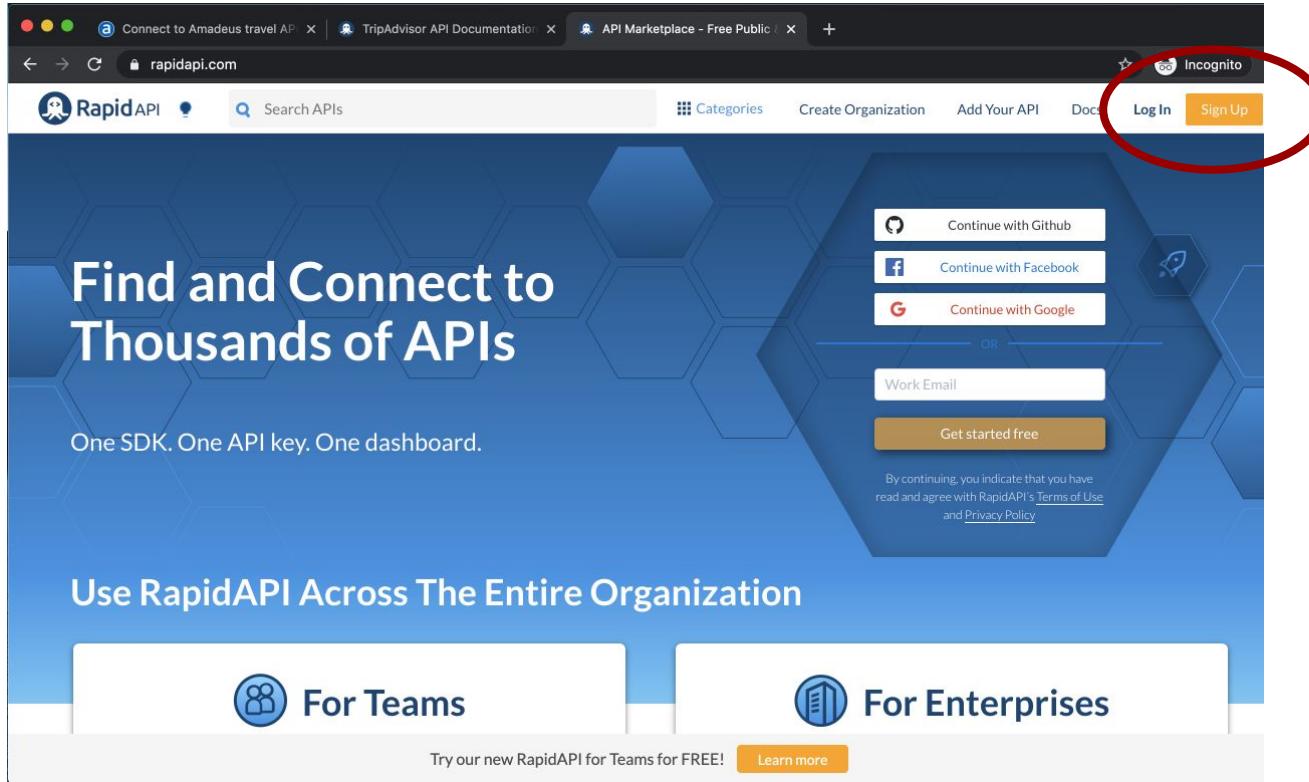
(note that the credentials below are only examples. They are not actual credentials and do not work.)



Getting Credentials for API

TripAdvisor API

Go to <https://rapidapi.com/>, click **sign up**



Choose one of the following sign up methods

The screenshot shows a web browser window with the title bar "Connect to Amadeus travel API" and "TripAdvisor API Documentation". The address bar displays the URL "rapidapi.com/apidojo/api/tripadvisor1?endpoint=apiendpoint_e2b2dc1f-fdd3-46a0-8bc0-0111176fe46e". The page itself is the RapidAPI sign-up page, featuring a dark blue header with the "RapidAPI" logo. Below the header, there are three social sign-up buttons: "Sign up with Github" (black background), "Sign up with Facebook" (blue background), and "Sign up with Google" (red background). A horizontal line with the word "or" separates these from the standard sign-up fields. The "Username" field is a white input box with placeholder text "Enter your user name". The "Work Email" field is another white input box with placeholder text "Enter your email". The "Password" field is a white input box with placeholder text "Must have at least 8 characters". At the bottom of the page is a large blue call-to-action button with the "Get Started" text and a blue arrow icon.

Find and Connect to
Thousands of APIs

- ⓘ Discover APIs.
- ⓘ Test from your browser.
- ⓘ Connect using code snippets.
- ⓘ Manage APIs from one dashboard.

Go back to <https://rapidapi.com/>. Type ‘Tripadvisor’ in Search button, click on the Tripadvisor dropdown icon

The screenshot shows the RapidAPI homepage. At the top, there is a navigation bar with links for 'Create Organization', 'API Marketplace', 'My Apps', 'Add Your API', and 'Docs'. Below the navigation bar, a large banner features the text 'Find and Connect to Thousands of APIs' and 'One SDK. One API key. One dashboard.' A search bar contains the text 'Tripadvisor'. A dropdown menu is open over the search bar, showing a result for 'TripAdvisor' with a small logo and the description 'Human Like Sentiment Analysis for Hotel Reviews'. A red oval highlights this dropdown menu. At the bottom of the page, there are buttons for 'Discover APIs', 'Test from the browser', 'Connect using code snippets', and 'Manage from one dashboard'. On the left side, there is a sidebar with 'Categories' (Data, Sports, Finance) and a 'Discover New APIs' section with a magnifying glass icon.

Click **Subscribe to Test**

The screenshot shows the TripAdvisor API Documentation page on RapidAPI.com. At the top, there's a navigation bar with tabs for 'Categories', 'Create Organization', 'Add Your API', 'Docs', 'Log In', and 'Sign Up'. Below the navigation bar, there's a search bar labeled 'Search APIs' and a logo for 'RapidAPI'. The main content area features a card for the 'TripAdvisor' API, which is listed as 'FREEMIUM' and updated 5 months ago. It includes metrics for Popularity (9.9 / 10), Latency (1221ms), and Success Rate (99%). Below the card, there are links for 'Endpoints', 'About', 'Discussions', 'Pricing', and 'Tutorials'. The 'Endpoints' link is underlined, indicating it's the active section. The main title is 'TripAdvisor API Documentation', followed by a subtitle: 'These APIs help to query realtime Flights prices, Hotels booking, Restaurants, Attracting locations, etc...'. There's a link to 'Learn more about this API >'. On the left, there's a sidebar with a search bar for 'Search endpoints' and a list of shared endpoints: 'answers/list', 'locations/search', 'photos/list', 'locations/auto-complete', and 'tips/list'. The main content area shows the 'GET attractions/get-details' endpoint. This endpoint is described as 'Get all information of specific attracting location by its location_id'. It has a 'Header Parameters' section with a required 'X-RapidAPI-Host' parameter set to 'tripadvisor1.p.rapidapi.com'. To the right of the endpoint details, there are buttons for '(Node.js) Unirest', 'Install SDK', and 'Copy Code', along with a snippet of code in Node.js Unirest. A large blue button labeled 'Subscribe to Test' is highlighted with a red oval. The entire screenshot is taken from a web browser window.

Select Basic plan

The screenshot shows the TripAdvisor API pricing page on the RapidAPI platform. At the top, there's a navigation bar with tabs for 'Endpoints', 'About', 'Discussions', and 'Pricing' (which is currently selected). Below the navigation is a header section featuring the API logo, name ('TripAdvisor'), status ('FREEMIUM'), and a brief description ('By apidojo | Updated 5 months ago | Travel, Transportation'). To the right of this are metrics for popularity (9.9/10), latency (1221ms), and success rate (99%). A 'Test Endpoints' button is also present. The main content area displays a table comparing four plan levels: Basic, Pro, Ultra, and Mega. The 'Basic' plan is highlighted with a red oval around its 'Select Plan' button. The table includes details like monthly fees, request quotas, and descriptions of the intended user groups.

	Basic	Pro	Ultra	Mega
Objects	\$S\$0.00 Select Plan <small>For individuals who just want the essentials or need it quickly</small>	\$S\$27.75*/mo (\$20.00 USD) Select Plan <small>For professionals who require more volume for their application</small>	\$S\$69.38*/mo (\$50.00 USD) Select Plan <small>For professionals who work on larger scale applications</small>	\$S\$416.29*/mo (\$300.00 USD) Select Plan <small>For businesses who need high volume, production-level use</small>
Requests	500 / month quota Hard Limit <small>i</small>	10000 / month quota + \$S\$0.00278* each (\$0.002 USD)	30000 / month quota + \$S\$0.00139* each (\$0.001 USD)	Unlimited

Click on the Search icon, Type TripAdvisor in the **Search** bar, and click on **dropdown TripAdvisor icon**

The screenshot shows a web browser window with the title "TripAdvisor API: Pricing & Cost" and the URL "rapidapi.com/apidojo/api/tripadvisor1/pricing". A red oval highlights the search bar area, specifically the magnifying glass icon and the search input field containing "TripAdvisor". Below the search bar, a dropdown menu is open, also highlighted by a red oval, showing the "TripAdvisor" entry under the "Categories" section. The dropdown also displays the "tripad" logo and the text "Human Like Sentiment Analysis for Hotel Reviews". The main content area features a heading "Choose the Right Plan For You" and a subtext: "RapidAPI partners directly with API providers to give you no-fuss, transparent pricing. Find a plan that best matches the scale you need for your application." At the bottom, there is a "Personal Account" section for "Veronica Loy" and a table comparing five pricing plans: Basic, Pro, Ultra, and Mega. The "Basic" plan is currently selected, showing a price of S\$0.00 and a note that it is "Currently subscribed". The "Pro" plan costs S\$27.75/mo or \$20.00 USD, with an "Upgrade" button. The "Ultra" plan costs S\$69.38/mo or \$50.00 USD, with an "Upgrade" button. The "Mega" plan costs S\$416.29/mo or \$300.00 USD, with an "Upgrade" button. A small note at the bottom left states: "* Estimate based on current exchange rate from listed \$USD price".

Choose the Right Plan For You

RapidAPI partners directly with API providers to give you no-fuss, transparent pricing. Find a plan that best matches the scale you need for your application.

Personal Account
Veronica Loy

	Basic	Pro	Ultra	Mega
Price	S\$0.00	S\$27.75*/mo (\$20.00 USD)	S\$69.38*/mo (\$50.00 USD)	S\$416.29*/mo (\$300.00 USD)
Status	Currently subscribed	Manage and View Usage	Upgrade	Upgrade

* Estimate based on current exchange rate from listed \$USD price

<https://rapidapi.com/apidojo/api/tripadvisor1>

Copy the x-rapidapi-key and paste in the **.env** file located in SystemCode folder

The screenshot shows the RapidAPI platform interface for the TripAdvisor API. At the top, there's a header with the RapidAPI logo, search bar, and navigation links like 'Create Organization', 'API Marketplace', 'My Apps', 'Add Your API', and 'Docs'. Below the header, the API details for 'TripAdvisor' are shown, including its rating (9.9/10), latency (1221ms), and success rate (99%). The 'Endpoints' tab is selected, displaying a list of available endpoints such as 'GET answers/list', 'GET locations/search', etc. On the right side, there's a code editor for Node.js Unirest showing a sample request code. A red oval highlights the 'X-RapidAPI-Key' field in the code, which contains a placeholder value. A red arrow points from this highlighted field to a local .env file on the right, which contains the copied key value.

API Details for TripAdvisor

Rating: 9.9 / 10 | Latency: 1221ms | Success Rate: 99%

Endpoints

Shared

- GET answers/list
- GET locations/search
- GET photos/list
- GET locations/auto-complete
- GET tips/list
- GET reviews/list
- GET keywords/list
- GET questions/list
- Restaurants
- Attractions
- Hotels
- Flights

Header Parameters

X-RapidAPI-Host: tripadvisor1.p.rapidapi.com

X-RapidAPI-Key: 3c8e481b1fmsh0f1b994be785092p162

```
var unirest = require("unirest");
var req = unirest("GET", "https://tripadvisor1.p.rapidapi.com/answers/list");
req.query({
  "limit": "10",
  "question_id": "5283833"
});

req.headers({
  "x-rapidapi-host": "tripadvisor1.p.rapidapi.com",
  "x-rapidapi-key": "3c8e481b1fmsh0f1b994be785092p162"
});

req.end(function (res) {
  if (res.error) throw new Error(res.error);
  console.log(res.body);
});
```

.env

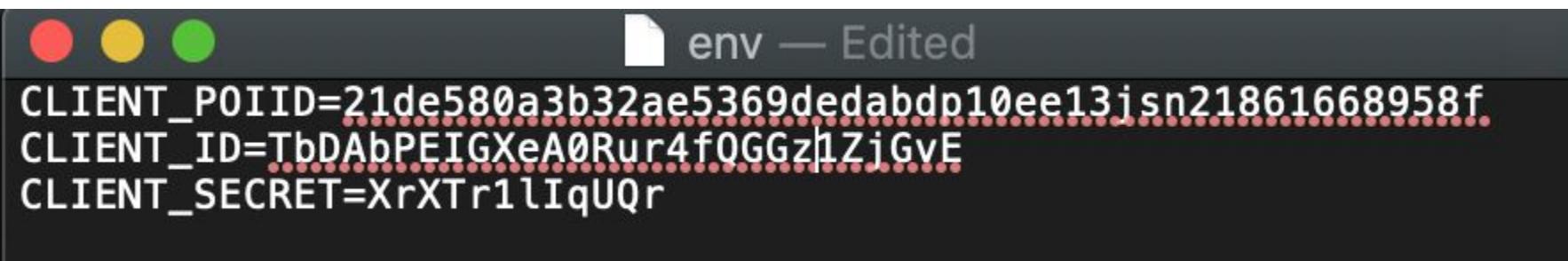
CLIENT_POID=

CLIENT_ID=TbDAbPEIGXeA0Rur4f0GGz1ZjGvE

CLIENT_SECRET=XrXTTr1lIqUQr

End results should look something like this:

(note that the credentials below are only examples. They are not actual credentials and do not work.)



A screenshot of a terminal window titled "env — Edited". The window contains three environment variable assignments:

```
CLIENT_POID=21de580a3b32ae5369dedabdp10ee13jsn21861668958f
CLIENT_ID=TbDAbPEIGXeA0Rur4fQGGz1ZjGvE
CLIENT_SECRET=XrXTr1lIqUQr
```

The variable names are in white, and the values are in light blue. The terminal has a dark background with red circular icons in the top-left corner.

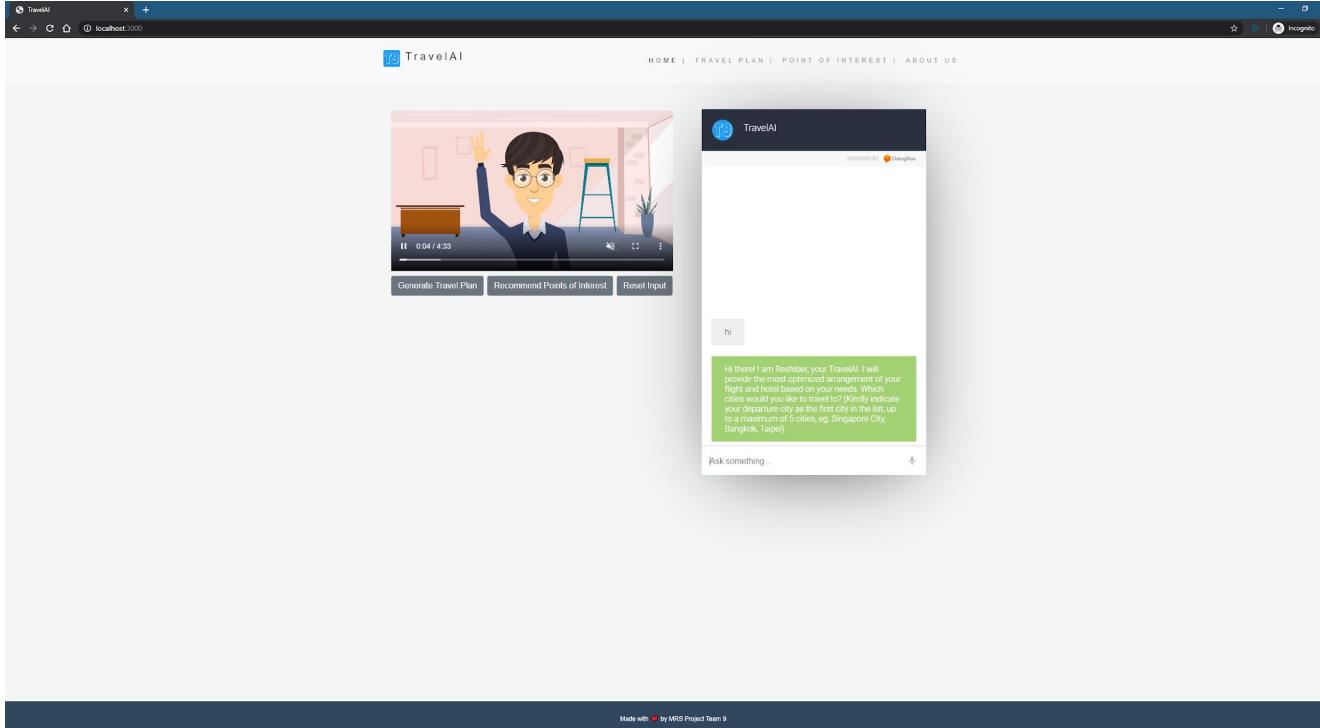
Running the App

Finally..

In your terminal, cd to SystemCode folder, and enter the following

- \$ node app.js

Open your web browser, go to the address bar and enter: '<http://localhost:3000/>'



Congratulations !