Twilio Documentation for MPDV Office and Shopfloor Application

Project Scope

This project involves the implementation of new features for the office automation system based on biometric authentication:

- Automation of adding Hydra system personnel into FaceSec device when syncing.
- Sending an error notification message to recipient's email and SMS in syncing data between the FaceSec Device and the HYDRA server

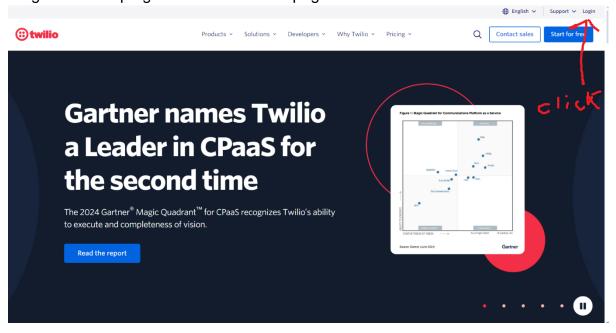
Compare_office.py	Code to sync the data of the hydra system and
	FaceSec device to add all personnel that is from
	the hydra system to FaceSec device
Compare_office_notification.py	Same code as Compare_office but it has a notification feature which sends out error messages in the form of SMS and Email messages when there are errors in synchronization.
Main_office.py	Main code to run so the Logon to the
	dashboard and synchronization of the hydra
	system and FaceSec device
Client_office.py	Code to run to enable to receive request to
	logon to the dashboard of the user who scan
	face

Compare_shopfloor.py	Code to sync the data of the hydra system and
	FaceSec device to add all personnel that is from
	the hydra system to FaceSec device
Compare_shopfloor_notification.py	Same code as Compare_shopfloor but it has a notification feature which sends out error messages in the form of SMS and Email messages when there are errors in synchronization.
Main_shopfloor.py	Code to run to input ID number with number of workers into the hydra system when scanning face

Setting up Twilio API (SMS Notification):

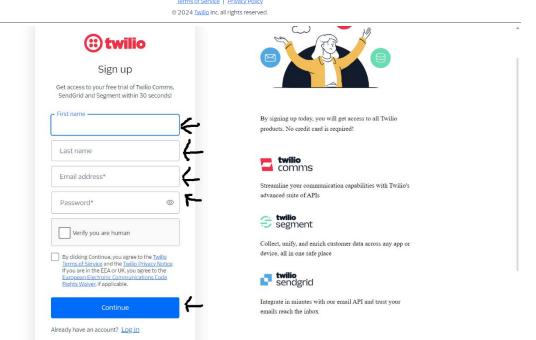
Creating a new Twilio Account:

1. Go to the Twilio main webpage: https://www.twilio.com/en-us and click on "Login" at the top right corner of the webpage.



2. In the page, click on "Sign Up" and fill in your email, name and password and verify the email (School Email is recommended) and choose the free trial of the account to set up your account.

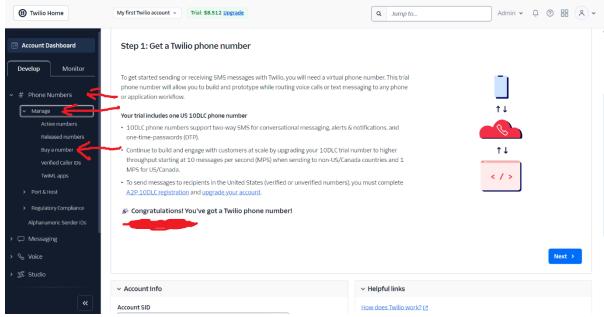




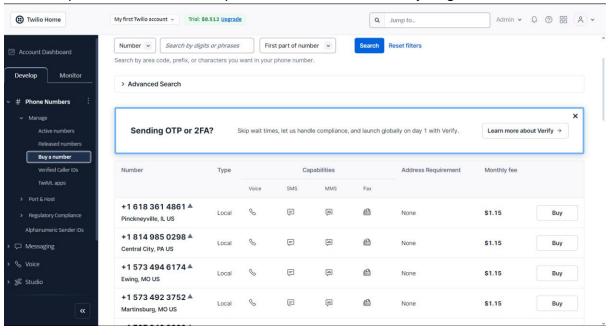
Getting Twilio Phone Number:

1. After signing up, you will go into the Twilio Console. Go to the left side of the webpage and click on "# Phone Numbers", "Manage", and then "Buy a

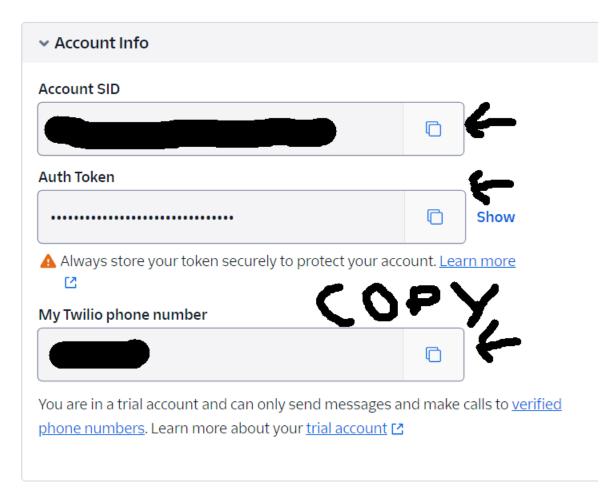
number" to start buying a number.



2. After that, you can choose a suitable number that you can use. The selected phone number will be placed in the console after you got it.

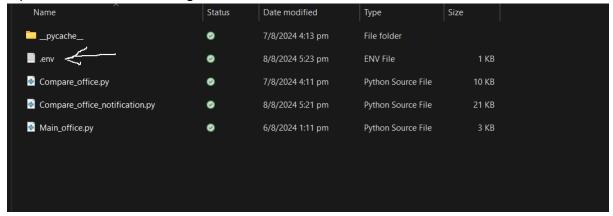


Go back to Twilio Home and scroll down until you find account info.
Then copy the Account SID, Authentication Token and Token to use
them later.

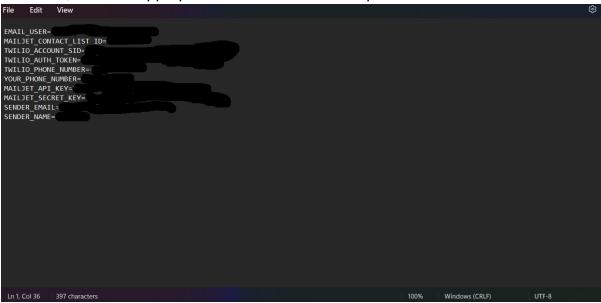


Putting in environment details to be used in the code:

1. Open the folder containing the .env file inside the main folder:



2. After that, fill in the appropriate variables in the notepad:



- a. TWILIO_ACCOUNT_SID: Your account SID from Twilio console
- b. TWILIO_AUTH_TOKEN: Your account Authentication token from Twilio console
- c. TWILIO_PHONE_NUMBER: Your Twilio Phone number, must put country code inside the number as well as phone number and no spaces (eg. +121234567)
- d. YOUR_PHONE_NUMBER: Your own/recipient's phone number, must put country code inside the number as well as phone number and no spaces (eg. +651234567)

Finally, open the office and shopfloor codes and open a new terminal, then you key in this to install the Twilio library:

pip install twilio