PyMotivator

# Introduction

This is a Python program that intends to send motivational quotes on WhatsApp on a daily basis. These quotes are motivational by default but can be changed to funny, sports related, etc if required.

# Purpose

This project has a purpose to learn Python from basics to advanced and at the same time add value by sending/receiving motivational quotes everyday.

# Intended Audience

Anyone who wants to learn Python and its integration with WhatsApp or anyone who wants daily Motivational quotes on WhatsApp.

# Overall Description

This project will have two main modules, one would fetch a quote from a [Quote of the Day API](https://quotes.rest/)

and send a WhatsApp text using a Third Party Service. The other module will be a cron scheduler that will schedule these WhatsApp texts for everyday.

# System Features and Requirements

## Functional Requirements

* Python 3.10-dev / 3.8 (For heroku Deployment)
* Requests
* Twilio
* APScheduler

## External Interface Requirements

* [Quotes of the Day API](https://quotes.rest/)
* [Twilio Dashboard for WhatsApp](https://www.twilio.com/console/sms/whatsapp/learn)
* [Visual Studio Code](https://code.visualstudio.com/)
* [GitHub](https://github.com/)
* [Heroku](https://dashboard.heroku.com/)

## System Features

* get\_quote\_of \_the\_day

- takes category as parameter and returns the quote of the day

- set\_twilio\_connection

- takes account\_sid and account\_token as parameter and returns client object

- send\_whatsapp\_text

- takes quote and twilio client connection as parameters and returns message ID

* background\_cron\_job

- takes send\_whatsapp\_text as a job to execute everyday in background

## Assumptions and Dependencies

* As the service for sending and receiving Quotes depends on Third party applications, it is assumed that they are always Up and Running.
* The Project initially aims for learning Python by its latest version i.e 3.10-dev but this version is not available for Heroku hence we would need to downgrade the python version to 3.8 for supporting heroku deployment.

## Other Non Functional Requirements

* Security - All the keys and passwords to be stored as Environment variables
* Quality - Code quality and PEP8 Standards
* Performance - Deployment on Heroku for scaling, newer Python version with updated Libraries

## 

## Industry Practices

* Clean, modularised code
* Snake case as per PEP 8
* Config is Seperate
* Proper Documentation
* DRY - Don’t Repeat yourself