How to Deploy a Flask app on Heroku.

#tutorial #codenewbie #python #heroku

Trilochan Parida · Jul 4, 2020 · *Updated on Aug 16, 2020* · 2 min read

How to deploy a Flask app on Heroku:Hands-on!

Hello Friends, In this article I will show you how to deploy a flask app on Heroku. Follow the below steps to deploy your python flask app on Heroku.

Prerequisite:

1. You must have installed **Git** in your system.
2. You must have installed **Python** in your system.

Step-1: Install Heroku CLI

```
% brew tap heroku/brew && brew install heroku
```

Above command is for Mac, for other systems you can [click here](#)

Step-2: Create Python Virtual Environment

```
% python3 -m venv foldername
% source foldername/bin/activate
% cd foldername
```

Step-3: Install Flask & Gunicorn

```
% pip3 install flask gunicorn
```

Step-4: Create an app folder and simple python app

```
% mkdir app
% cd app
% vi main.py
```

main.py

```
from flask import Flask
app= Flask(__name__)
@app.route('/')
def index():
    return "<h1>Welcome to CodingX</h1>"
```

Step-5: Create an entry point to the application, wsgi.py

```
% cd ../
% vi wsgi.py
```

wsgi.py

```
from app.main import app
if __name__ == "__main__":
    app.run()
```

Step-6: Run the application in your local system
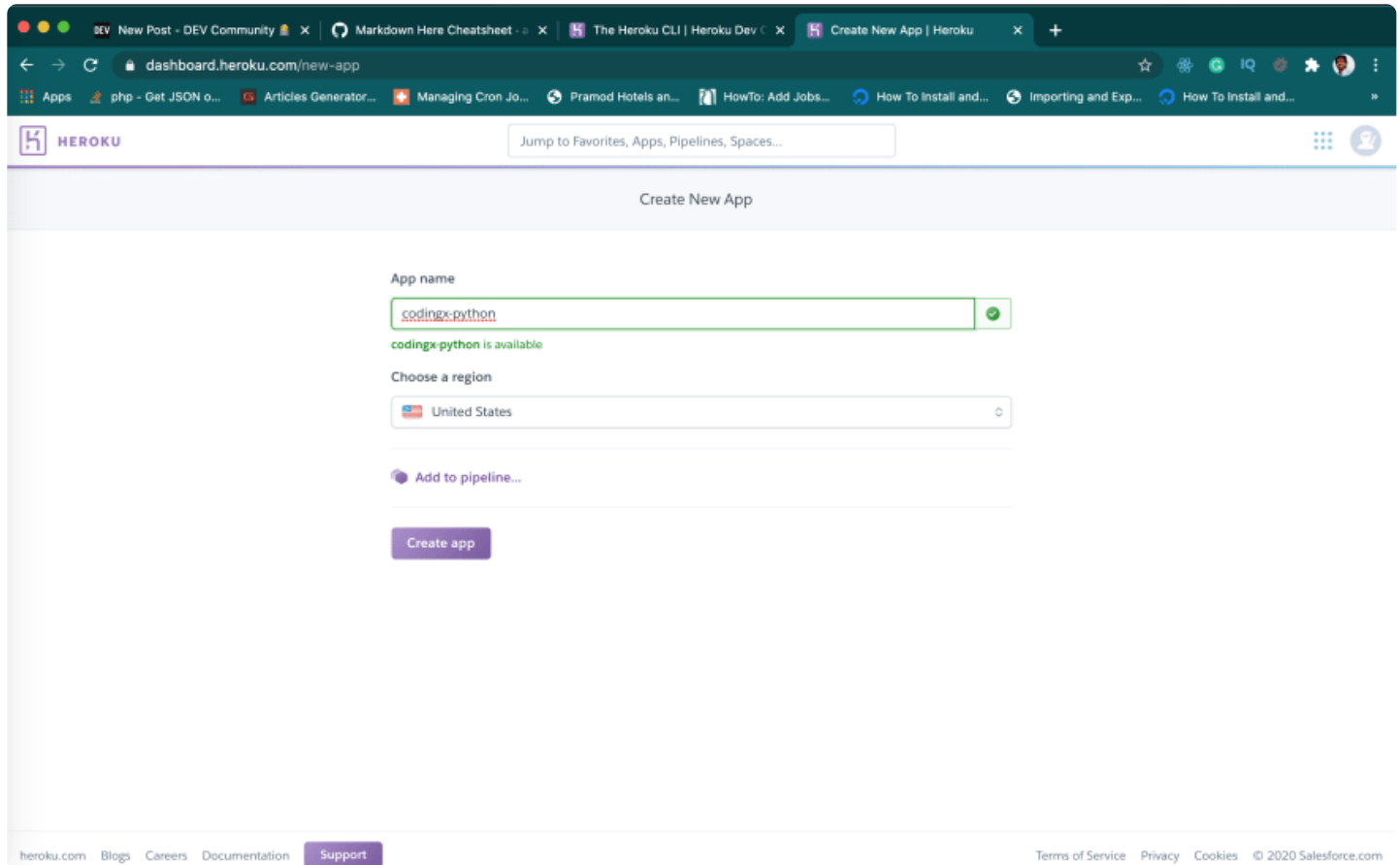
```
% python wsgi.py
```

Step-7: Create requirements.txt and Procfile file

```
% pip3 freeze
% pip3 freeze > requirements.txt
% vi Procfile
```

Procfile

```
web: gunicorn wsgi:app
```

Step-8: Create an app in Heroku

Step-9: Deploy your app to heroku

```
% heroku login
% git init
% heroku git:remote -a codingx-python
% git add.
% git commit -am "First python app"
% git push heroku master
```

Step-10: Open your application on browser

https://app-name.herokuapp.com

It's done!

Please Subscribe to my Youtube Channel https://youtube.com/c/codingx

Discussion (7)

Jon Nordland • Jul 17 '20

Thank you, Very good. More people should focus on succinct explanations like this.

Trilochan Parida ✪ • Jul 18 '20

I am glad you like it :)

zeybep • Jan 20

Hi,
Firstly thank you very much ... I have to python files and they are in the same folder, named app folder... one is main.py and the other is sendemail1.py and there is wsgi.py file under the virtual directory. But when i run the wsgi.py it gives me the ModuleNotFoundError: No module named 'sendemail1' error so i can not push to heroku...

my wsgi.py is;

from app.main import app

if **name** == "**main**":
app.run()

main.py file is:

from flask import Flask, render_template, request
from flask_sqlalchemy import SQLAlchemy

```
from sendemail1 import sendemail

from sqlalchemy.sql import func
...
app= Flask(name)
app.config['SQLALCHEMY_DATABASE_URI']='postgresql://postgres:123456@localhost/height_collector'

class Data(db.Model):
tablename="data"
id=db.Column(db.Integer,primary_key=True)
email_=db.Column(db.String(120),unique=True)
height_=db.Column(db.Integer)
```

```python
    def __init__(self,email_,height_):
        self.email_=email_
        self.height_=height_
```

```
@app.route("/")
def index():
return render_template("index.html")

@app.route("/success",methods=['POST'])
def success():
if request.method=='POST':
email=request.form["email_name"]
height=request.form["height_name"]
```

```python
        print(email)
        if  db.session.query(Data).filter(Data.email_ == email).count() == 0:
            data=Data(email,height)
            db.session.add(data)
            db.session.commit()
            #average calculate

            avg_height=db.session.query(func.avg(Data.height_)).scalar()
            avg_height=round(avg_height,1)
            print(avg_height)
            count = db.session.query(Data.height_).count()
            sendemail(email,height,avg_height,count)

            return render_template("success.html")

    return render_template("index.html",
    text="Seems like there is an email already :)")
```

if **name**=='**main**':
app.debug=True
app.run()

---

sendemail1.py file is

from email.mime.text import MIMEText
import smtplib

def sendemail(email,height,avg_height,count):
from_email="usertestblabla@gmail.com"
from_password="eee134566"
to_email=email

```
subject="Height Data"
message ="Hey , your height is <strong> %s. <strong> Average height of all is %s and calcula

msg = MIMEText(message,'html')
msg['Subject']=subject
msg['To']=to_email
msg['From']=from_email

gmail=smtplib.SMTP('smtp.gmail.com',587)
gmail.ehlo()
gmail.starttls()
gmail.login(from_email,from_password)
gmail.send_message(msg)
```

thank you very much

zeybep · Jan 20

Hi again,
i found the error...It is because i have to write the import like this
from app.sendemail1 import sendemail to the main.py
than it works
have a great day

Kirtan Magan • Dec 12 '20

Thanks omg you are thebest =ever!!!!1!!!!

Edung Divinefavour • Apr 11

Super useful!!!!!!!!!

Luv2bnanook44 • Jun 7

thank you!!!

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Trilochan Parida

#TechEntrepreneur, Passionate about #technology #coding, Love to #troubleshoot #travel

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