CLOUD AND API DEPLOYMENT

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BATCH CODE: LISUM06

SUBMISSION DATE: 03/02/2022

Acer

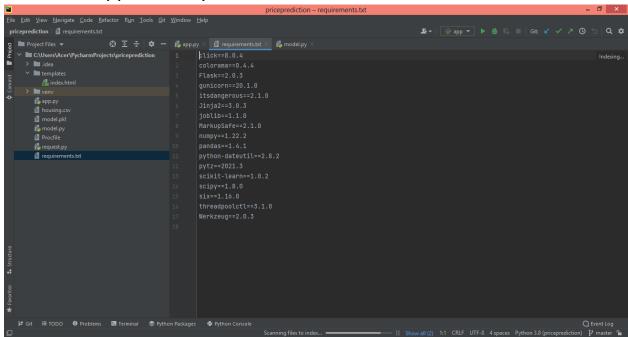
1. INTRODUCTION

This document contains the steps carried out in the API deployment on Heroku.

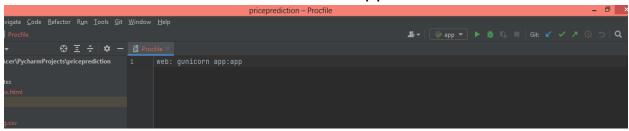
I used Mozilla Firefox web browser, command prompt, PyCharm and python programming language as well as its different packages and libraries.

The files on https://github.com/cate6495/pricepredict contain the model that I deployed on Heroku. The repository with the app contains our model, requirements.txt file and a Procfile.

The requirements.txt file contains all the dependencies necessary, it tells Heroku that it will require all these libraries to run the app correctly.



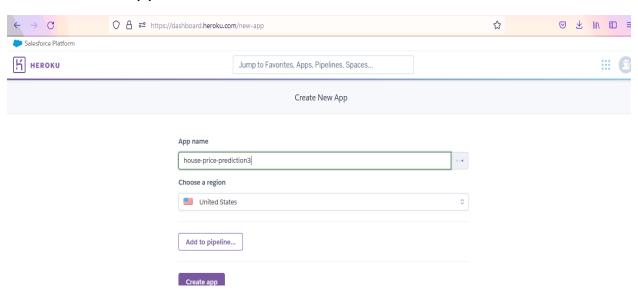
The Procfile tells Heroku how to run the app:



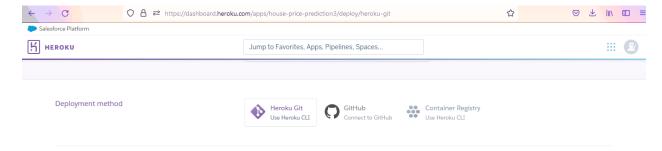
1.Below are the steps:

API DEPLOYMENT ON HEROKU USING HEROKU GIT

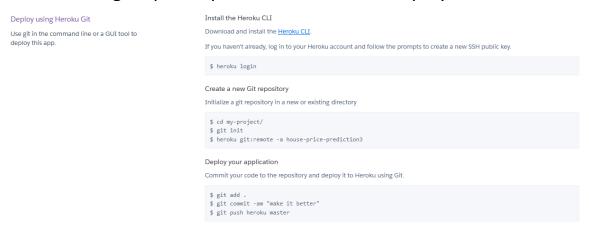
Create a new app on Heroku:



2. Then download and install Heroku CLI



3. The following steps are provided in order to deploy:



4. Below are the results of the above code

```
icrosoft Windows [Version 6.2.9200]

(c) 2012 Microsoft Corporation. All rights reserved.

C:\Users\Acer>heroku login
heroku: Press any key to open up the browser to login or q to exit:
Dpening browser to https://cli-auth.heroku.com/auth/cli/browser/717a45cd-0b36-42
6=8981-8f3id7d7cd4a?requestor=SFMyNTY.g2gDbQAAAA8xOTcuMTU2LjEzNy4xNTRuBgAIxNRfg
NFiAAFRgA.jb0Y1LtT95nkNYcyWEOfHgWTFcId3_TffOqOYjAZSP0
logging in... done
logged in as sandacate@gmail.com

C:\Users\Acer>
C:\Users\Acer>cd priceprediction

C:\Users\Acer\priceprediction/git init
Reinitialized existing Git repository in C:\Users\Acer/priceprediction/.git/

C:\Users\Acer\priceprediction>heroku git:remote -a house-price-prediction3
set git remote heroku to https://git.heroku.com/house-price-prediction3.git

C:\Users\Acer\priceprediction>git add .

C:\Users\Acer\priceprediction>git commit -am "make it better"

In branch master
In branch master
Inothing to commit, working tree clean

C:\Users\Acer\priceprediction>git push heroku master
```

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```
C:\Users\Acer\priceprediction>git commit -am "make it better"
 On branch master
nothing to commit, working tree clean
 G:\Users\Acer\priceprediction>git push heroku master
Enumerating objects: 3521, done.
Counting objects: 100% (3521/3521), done.
 Counting objects: 100% (3521/3521), done.
Delta compression using up to 2 threads
Compressing objects: 100% (3487/3487), done.
Writing objects: 100% (3521/3521), 24.03 MiB ; 292.00 KiB/s, done.
Total 3521 (delta 178), reused 0 (delta 0), pack-reused 0
remote: Compressing source files... done.
remote: Building source:
  remote:
                                                     Building on the Heroku-20 stack
Determining which buildpack to use for this app
Python app detected
  remote:
  remote:
  remote:
 remote:
                                                     No Python version was specified. Using the buildpack default: pyt
 hon-3.10.4
 remote: To use
icles/python-runtimes
                                                      To use a different version, see: https://devcenter.heroku.com/art
                                                    Installing python-3.10.4
Installing pip 22.0.4, setuptools 60.10.0 and wheel 0.37.1
Installing SQLite3
  remote:
  remote:
remote: -----> Installing pip 22.0.4, setuptools 60.10.0 and wheel 0.37.1
remote: -----> Installing SQLite3
remote: -----> Installing requirements with pip
remote: Collecting click=8.0.4
remote: Downloading click-8.0.4-py3-none-any.whl (97 kB)
remote: Collecting colorama=0.4.4
remote: Downloading colorama-0.4.4-py2.py3-none-any.whl (16 kB)
remote: Collecting Flask=2.0.3
remote: Downloading Flask-2.0.3-py3-none-any.whl (95 kB)
remote: Collecting gunicorn=20.1.0
remote: Downloading gunicorn-20.1.0-py3-none-any.whl (79 kB)
remote: Collecting itsdangerous=2.1.0
remote: Downloading itsdangerous=2.1.0
remote: Downloading Jinja2=3.0.3
remote: Downloading Jinja2=3.0.3-py3-none-any.whl (133 kB)
remote: Collecting joblib=1.1.0
remote: Downloading Joblib-1.1.0-py2.py3-none-any.whl (306 kB)
remote: Collecting MarkupSafe=2.1.0
remote: Downloading MarkupSafe=2.1.0
remote: Collecting numpy=1.22.2
remote: Downloading numpy-1.22.2-cp310-cp310-manylinux_2_17_x86_64.many
linux2014_x86_64.whl (16.8 MB)
remote: Collecting pandas=1.4.1
Populoading numpy-1.22.2-cp310-cp310-manylinux_2_17_x86_64.many
linux2014_x86_64.whl (16.8 MB)
remote: Collecting pandas=1.4.1
 remote:
 remote: Collecting pandas==1.4.1
remote: Downloading pandas=1.4.1
remote: Downloading pandas=1.4.1-cp310-cp310-manylinux_2_17_x86_64.many
linux2014_x86_64.whl (11.7 MB)
remote: Collecting python-dateutil==2.8.2
remote: Downloading python_dateutil-2.8.2-py2.py3-none-any.whl (247 kB)
 remote: Collecting pytz==2021.3
remote: Downloading pytz=2021.3-py2.py3-none-any.whl (503 kB)
remote: Collecting scikit-learn=1.0.2
remote: Downloading scikit_learn=1.0.2-cp310-cp310-manylinux_2_17_x86_6
4.manylinux2014_x86_64.whl (26.5 MB)
remote: Collecting scipy==1.8.0
```

5.Click on the link: https://house-price-prediction3.herokuapp.com/



6.Testing the results of house-price-prediction3



The house price should be \$[1370200.22774155]