

Data Glacier

Cloud and API Deployment

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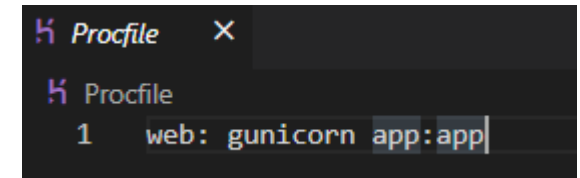
Step #1 :

Creating required files (Procfile and Requirements file)

Requirements contains all the libraries and dependencies we used

```
(myv2) C:\Users\HP\Desktop\week5>pip list
Package            Version
-----
certifi             2021.5.30
charset-normalizer  2.0.4
click               8.0.1
colorama            0.4.4
Flask               2.0.1
gunicorn            20.1.0
idna                3.2
itsdangerous        2.0.1
Jinja2              3.0.1
joblib              1.0.1
MarkupSafe          2.0.1
numpy               1.21.1
pip                21.2.2
requests            2.26.0
scikit-learn        0.24.2
scipy               1.7.1
setuptools          52.0.0.post20210125
sklearn             0.0
threadpoolctl       2.2.0
urllib3             1.26.6
Werkzeug            2.0.1
wheel               0.36.2
wincertstore        0.2
```

Procfile specifies the app's web server (in this case Gunicorn)



```
Procfile
1 web: gunicorn app:app
```

Step #2 :

Log in to Heroku
And create app

```
(myv2) C:\Users\HP\Desktop\week5>heroku login
heroku: Press any key to open up the browser to login or q to exit:
Opening browser to https://cli-auth.heroku.com/auth/cli/browser/79993574-9
2gDbQAAAA8xNzYuMjM2LjIzMjIyMTFuBgCgH-dFewFiAAFRgA.i_LjyWhhvGikjVB0krY2eXy6
Logging in... done
Logged in as [REDACTED]
```

```
(myv2) C:\Users\HP\Desktop\week5>heroku create dataglacierflowersapp
Creating ☐ dataglacierflowersapp... done
https://dataglacierflowersapp.herokuapp.com/ | https://git.heroku.com/dataglacierflowersapp.git
```

Step #3 :

Initialize git repository
and set remote to Heroku

```
(myv2) C:\Users\HP\Desktop\week5>git init  
Initialized empty Git repository in C:/Users/HP/Desktop/week5/.git/
```

```
(myv2) C:\Users\HP\Desktop\week5>heroku git:remote -a dataglacierflowersapp  
set git remote heroku to https://git.heroku.com/dataglacierflowersapp.git
```

Step #4:

Add files to git,
commit changes
and PUSH

```
(myv2) C:\Users\HP\Desktop\week5>git add .  
warning: LF will be replaced by CRLF in model.ipynb.  
The file will have its original line endings in your working directory  
warning: LF will be replaced by CRLF in model.py.  
The file will have its original line endings in your working directory
```

```
(myv2) C:\Users\HP\Desktop\week5>git commit -m " my python app"  
[master (root-commit) 6dc4993] my python app  
9 files changed, 1290 insertions(+)  
create mode 100644 Procfile  
create mode 100644 app.py  
create mode 100644 flowers.xlsx  
create mode 100644 model.ipynb  
create mode 100644 model.py  
create mode 100644 requirements.txt  
create mode 100644 rfcModel.pkl  
create mode 100644 templates/flowersGallery.html  
create mode 100644 templates/index.html
```

```
(myv2) C:\Users\HP\Desktop\week5>git push heroku master
```

And now its deployed
and ready to launch

```
remote: ----> Discovering process types
remote:      Procfile declares types -> web
remote:
remote: ----> Compressing...
remote:      Done: 126.2M
remote: ----> Launching...
remote:      Released v3
remote:      https://dataglacierflowersapp.herokuapp.com/ deployed to Heroku
remote:
remote: Verifying deploy... done.
To https://git.heroku.com/dataglacierflowersapp.git
 * [new branch]      master -> master
```

← → ↻ 🔒 dataglacierflowersapp.herokuapp.com ☆

Welcome!!

Enter the sepal length

Enter the sepal width

Enter the petal length

Enter the petal width

what is the flower type