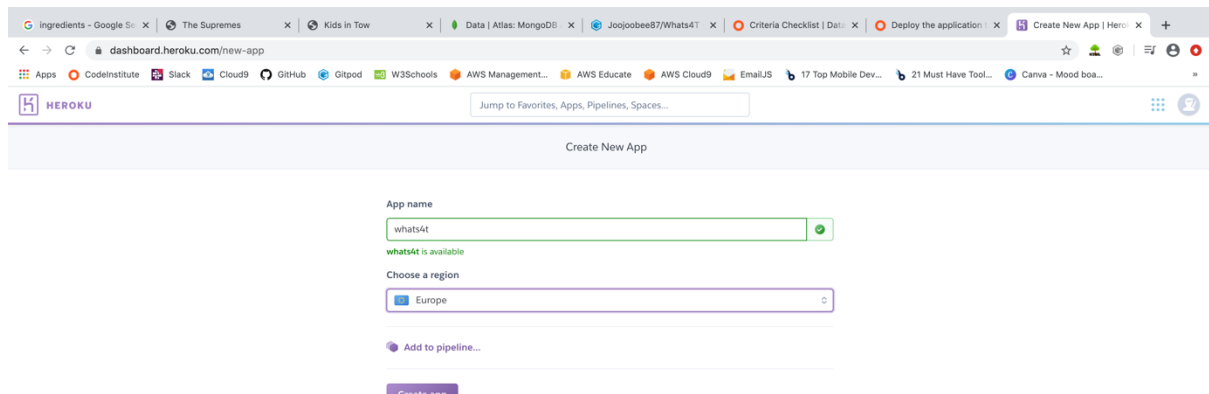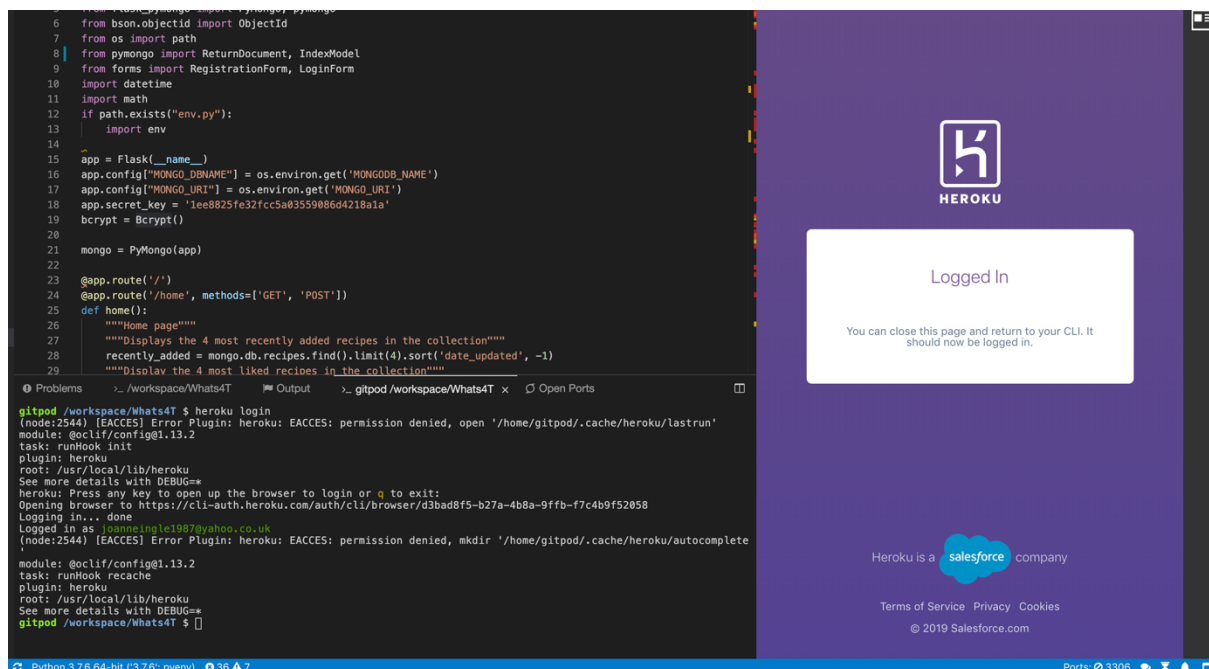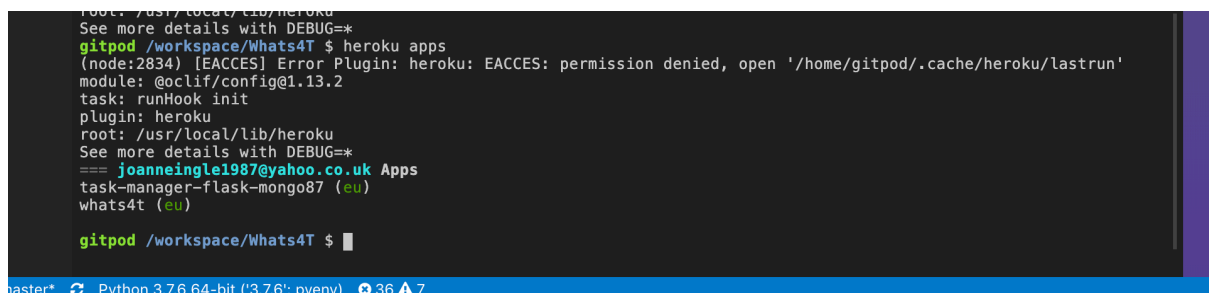# Heroku Deployment

Heroku set-up and installation

Created a new app in Heroku called whats4t

Enter Heroku login command on CLI and logged into Heroku account

Entered Heroku apps command to check visibility of new whats4t app

Regular commits of Whats4T? files have already been made to the Whats4T GitHub repository

Associate the Heroku application as our master branch
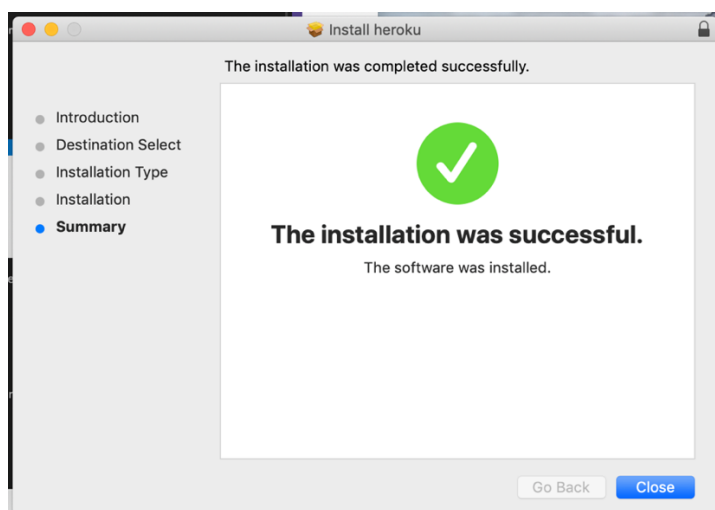
➢ heroku git:remote -a whats4t

➢ heroku git:remote -a Whats4T

Downloaded and installed the Heroku Command Line Interface (CLI) to make it easy to create and manage Heroku apps directly from the terminal.

Install Heroku for MacOS and performed standard installation

➢ Git push heroku master

```
set git remote heroku to https://git.heroku.com/whats4t.git
gitpod /workspace/Whats4T $ git push heroku master
Enumerating objects: 374, done.
Counting objects: 100% (374/374), done.
Delta compression using up to 16 threads
Compressing objects: 100% (351/351), done.
Writing objects: 100% (374/374), 277.06 KiB | 6.76 MiB/s, done.
Total 374 (delta 211), reused 0 (delta 0)
remote: Compressing source files... done.
remote: Building source:
remote:
remote: !     No default language could be detected for this app.
remote:                     HINT: This occurs when Heroku cannot detect the buildpack to use for this application automatically.
remote:                     See https://devcenter.heroku.com/articles/buildpacks
remote:
remote: !     Push failed
remote: Verifying deploy...
remote:
remote: !      Push rejected to whats4t.
remote:
To https://git.heroku.com/whats4t.git
 ! [remote rejected] master -> master (pre-receive hook declined)
error: failed to push some refs to 'https://git.heroku.com/whats4t.git'
gitpod /workspace/Whats4T $
```

It has failed because the requirements aren't in place

➢ pip3 freeze –local > requirements.txt

Add the requirements.txt to GitHub repository
➢ git add requirements.txt
➢ git commit -m "added requirements.txt"

```
gitpod /workspace/Whats4T $ git commit –m "added requirements.txt"
[master e63565a] added requirements.txt
 1 file changed, 15 insertions(+)
 create mode 100644 requirements.txt
gitpod /workspace/Whats4T $
```

➢ git push heroku master

```
create mode 100644 requirements.txt
gitpod /workspace/Whats4T $ git push heroku master
Enumerating objects: 377, done.
Counting objects: 100% (377/377), done.
Delta compression using up to 16 threads
Compressing objects: 100% (354/354), done.
Writing objects: 100% (377/377), 277.03 KiB | 6.02 MiB/s, done.
Total 377 (delta 214), reused 0 (delta 0)
remote: Compressing source files... done.
remote: Building source:
remote:
remote: -----> Python app detected
remote: -----> Installing python-3.6.10
remote: -----> Installing pip
remote: -----> Installing SQLite3
remote: Sqlite3 successfully installed.
remote: -----> Installing requirements with pip
remote:        Collecting bcrypt==3.1.7
remote:          Downloading bcrypt-3.1.7-cp34-abi3-manylinux1_x86_64.whl (56 kB)
remote:        Collecting cffi==1.13.2
remote:          Downloading cffi-1.13.2-cp36-cp36m-manylinux1_x86_64.whl (397 kB)
remote:        Collecting Click==7.0
remote:          Downloading Click-7.0-py2.py3-none-any.whl (81 kB)
remote:        Collecting dnspython==1.16.0
remote:          Downloading dnspython-1.16.0-py2.py3-none-any.whl (188 kB)
remote:        Collecting Flask==1.1.1
remote:          Downloading Flask-1.1.1-py2.py3-none-any.whl (94 kB)
remote:        Collecting Flask-Bcrypt==0.7.1
remote:          Downloading Flask-Bcrypt-0.7.1.tar.gz (5.1 kB)
remote:        Collecting Flask-Login==0.4.1
remote:          Downloading Flask-Login-0.4.1.tar.gz (14 kB)
remote:        Collecting Flask-PyMongo==2.3.0
remote:          Downloading Flask_PyMongo-2.3.0-py2.py3-none-any.whl (12 kB)
remote:        Collecting Flask-WTF==0.14.2
remote:          Downloading Flask_WTF-0.14.2-py2.py3-none-any.whl (14 kB)
remote:        Collecting itsdangerous==1.1.0
remote:          Downloading itsdangerous-1.1.0-py2.py3-none-any.whl (16 kB)
remote:        Collecting mongo==0.2.0
remote:          Downloading mongo-0.2.0.tar.gz (4.6 kB)
remote:        Collecting pycparser==2.19
remote:          Downloading pycparser-2.19.tar.gz (158 kB)
remote:        Collecting pymongo==3.10.1
remote:          Downloading pymongo-3.10.1-cp36-cp36m-manylinux2014_x86_64.whl (460 kB)
remote:        Collecting Werkzeug==0.16.0
remote:          Downloading Werkzeug-0.16.0-py2.py3-none-any.whl (327 kB)
remote:        Collecting WTForms==2.2.1
remote:          Downloading WTForms-2.2.1-py2.py3-none-any.whl (166 kB)
remote:        Collecting six>=1.4.1
remote:          Downloading six-1.14.0-py2.py3-none-any.whl (10 kB)
remote:        Collecting Jinja2>=2.10.1
```

Missing Procfile – an instruction to Heroku as to which file to use as the entry point to the application

Send instruction to Procfile:
- ➢ echo web: python app.py > Procfile

Add and commit Procfile to GitHub repository
- ➢ git add Procfile
- ➢ git commit -m "added Procfile"

Push to Heroku
- ➢ git push heroku master

Command to run heroku application
- ➢ heroku ps:scale web=1

Config Variables

Add config variables to Heroku under Settings
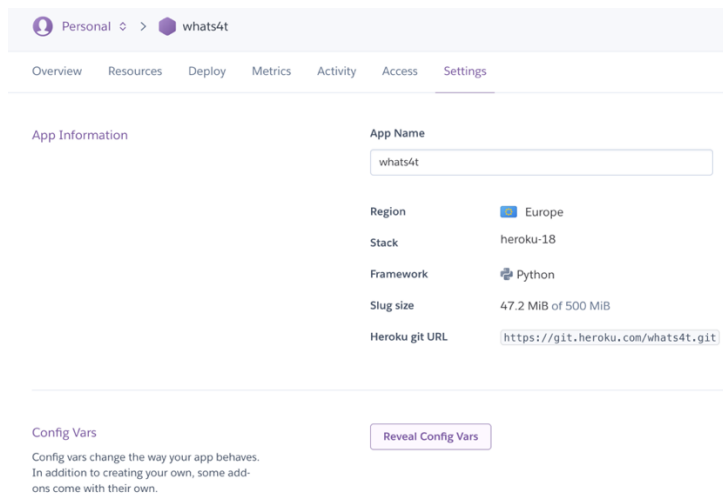
Added IP and PORT to config variables
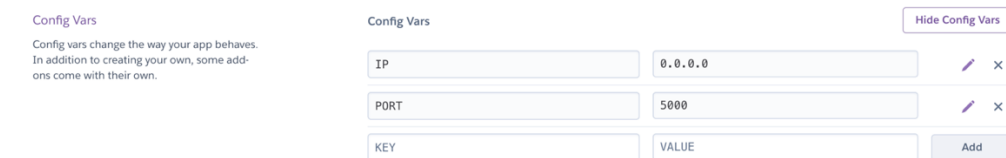
Error with running application as MONGO_URI was not added (in env.py file which is ignored by git)

Added new MONGO_URI config variable to Heroku which resolved the error

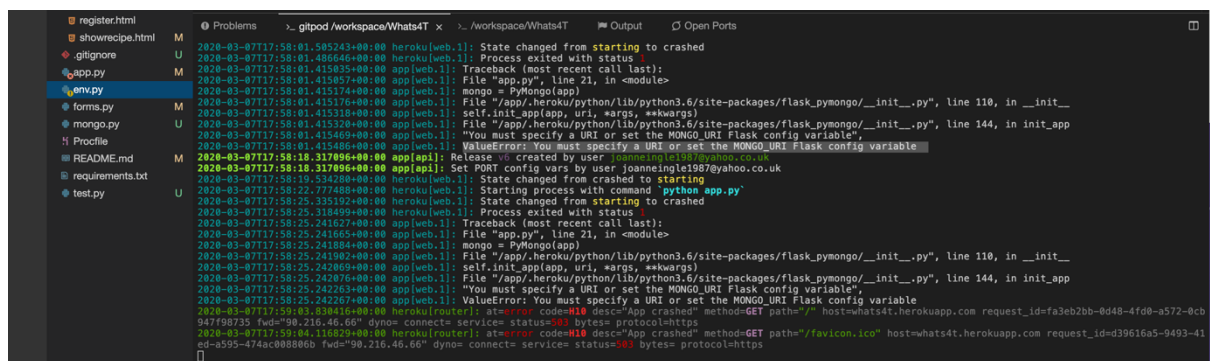MONGO_URI and SECRET_KEY config variables added to Heroku

Config Vars

Config vars change the way your app behaves.
In addition to creating your own, some add-
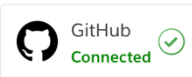ons come with their own.

Config Vars

IP

MONGO_URI

PORT

SECRET_KEY

KEY

Heroku has been configured to allow automatic deployment of code to Heroku when pushed to GitHub master branch

Deployment method

Heroku Git
Use Heroku CLI

GitHub
Connected ✓

Container Registry
Use Heroku CLI

Automatic deploys

Enables a chosen branch to be automatically
deployed to this app.

✓ Automatic deploys from master are enabled

Every push to master will deploy a new version of this app. **Deploys happen automatically:** be sure that this branch in GitHub is always in a deployable state and any tests have passed before you push. Learn more.

☐ Wait for CI to pass before deploy
Only enable this option if you have a Continuous Integration service configured on your repo.

Disable Automatic Deploys

App connected to GitHub

Code diffs, manual and auto deploys are
available for this app.

Connected to Joojoobee87/Whats4T by Joojoobee87   Disconnect...

◆ Releases in the activity feed link to GitHub to view commit diffs
◎ Automatically deploys from master