CMPUT 404 Lab 6 - Heroku

2017-02-13

Install Heroku

- 1. Sign up for a free Heroku account
- 2. Download with wget

```
https://cli-assets.heroku.com/branches/stable/heroku-linux-amd6
4.tar.gz
```

- 3. Unpack with tar -xvzf heroku-linux-amd64.tar.gz
- 4. Add it to your path with export PATH="\$PATH:\$HOME /heroku/bin"
- 5. Run the heroku tool with heroku

Migrate Polls App

6. Follow the instructions at: https://devcenter.heroku.com/articles/django-app-configuration starting from "Migrating an Existing Django App" "The Basics"

Question 1: What does pip freeze do and how does it help heroku run your app?

Question 2: How does Heroku communicate the database connection details to your app?

Question 3: What is the webserver Heroku uses for Python apps? How does it communicate with the Django App?

- 7. Follow the instructions at: https://devcenter.heroku.com/articles/deploying-python
- 8. Make sure your Procfile contains

```
web: gunicorn lab4django.wsgi --log-file -
```

Except replacing "lab4django" with what you called your site.

9. Make sure your wsgi.py contains:

```
import os
from django.core.wsgi import get_wsgi_application
os.environ.setdefault("DJANGO_SETTINGS_MODULE",
"lab4django.settings")
```

```
from whitenoise.django import DjangoWhiteNoise
application = get wsgi application()
application = DjangoWhiteNoise(application)
Note the whitenoise import comes after os.environ.setdefault!
   10. Make sure your settings.py contains:
DATABASES = {'default': None}
import dj database url
db from env = dj database url.config(conn max age=500)
DATABASES['default'] = db from env
   11. Make sure your settings.py contain:
PROJECT ROOT = os.path.dirname(os.path.abspath( file ))
STATIC ROOT = os.path.join(PROJECT ROOT, 'staticfiles')
STATIC URL = '/static/'
# Extra places for collectstatic to find static files.
STATICFILES DIRS = (
     os.path.join(PROJECT ROOT, 'static'),
     os.path.join(PROJECT ROOT, '../polls/static'),
)
STATICFILES STORAGE =
'whitenoise.django.GzipManifestStaticFilesStorage'
   12. For heroku local web set your DB environment variable with:
DATABASE URL="sqlite:///`pwd`/sqlite3.db"
```

13. Make sure your requirements.txt contains:

```
Django==1.8

argparse==1.2.1

dj-database-url==0.4.2

gunicorn==19.6.0

psycopg2==2.6.2

whitenoise==3.3.0

wsgiref==0.1.2
```

- 14. You should be able to skip creating a virtualenv but make sure to activate it!
- 15. Before pushing to heroku add a file at mysite/mysite/static/keep. It can be empty but make sure it's in git.
- 16. At the "One-off dynos" step, you can use heroku run python manage.py migrate to create the database tables, and manage.py superuser to create the superuser login for the admin panel.
- 17. Stop at "Logging."

Question 4: What is the Procfile used for?

Question 5: How do you send your application code to Heroku?

Question 6: How do you run manage.py commands on Heroku?

Question 7: What is the address of your polls app on Heroku?

18. Shut down your dynos.