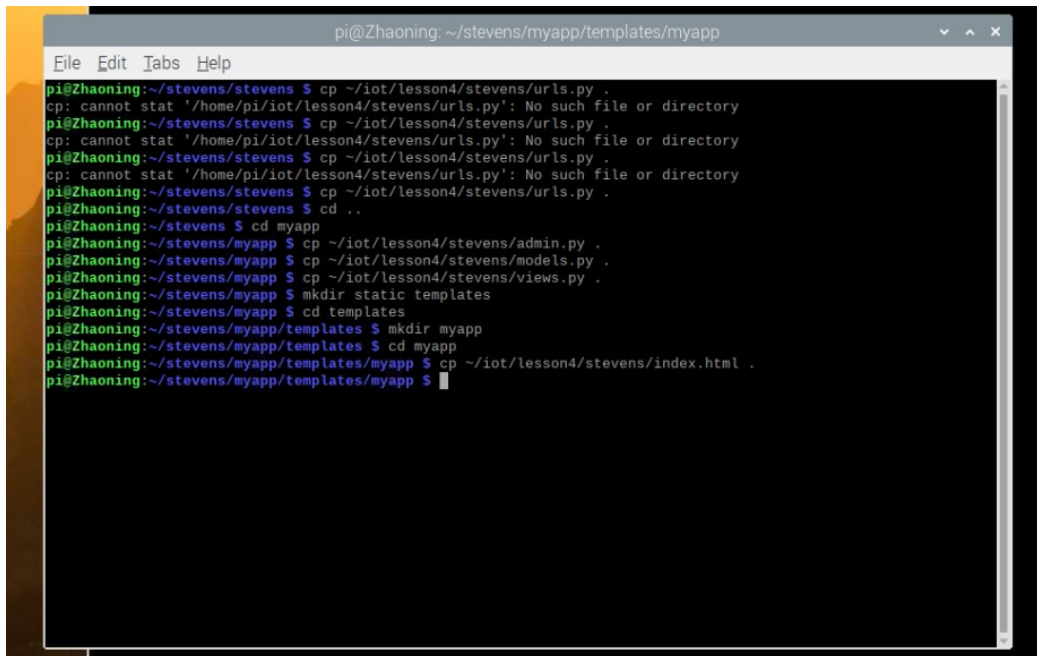


Edit settings.py in ~/stevens/stevens

A terminal window titled 'pi@Zhaoning: ~/stevens/myapp/templates/myapp'. The window shows a series of commands and their outputs. The user is in the directory ~/stevens/stevens and attempts to copy files from ~/iot/lesson4/stevens/urls.py. This results in four 'cp: cannot stat' errors. The user then navigates to the myapp directory and copies admin.py, models.py, and views.py from the same source. Next, the user creates a 'static' directory and a 'templates' subdirectory within it. Finally, the user copies index.html from the source to the templates directory.

```
pi@Zhaoning:~/stevens/stevens $ cp ~/iot/lesson4/stevens/urls.py .
cp: cannot stat '/home/pi/iot/lesson4/stevens/urls.py': No such file or directory
pi@Zhaoning:~/stevens/stevens $ cp ~/iot/lesson4/stevens/urls.py .
cp: cannot stat '/home/pi/iot/lesson4/stevens/urls.py': No such file or directory
pi@Zhaoning:~/stevens/stevens $ cp ~/iot/lesson4/stevens/urls.py .
cp: cannot stat '/home/pi/iot/lesson4/stevens/urls.py': No such file or directory
pi@Zhaoning:~/stevens/stevens $ cp ~/iot/lesson4/stevens/urls.py .
pi@Zhaoning:~/stevens/stevens $ cd ..
pi@Zhaoning:~/stevens $ cd myapp
pi@Zhaoning:~/stevens/myapp $ cp ~/iot/lesson4/stevens/admin.py .
pi@Zhaoning:~/stevens/myapp $ cp ~/iot/lesson4/stevens/models.py .
pi@Zhaoning:~/stevens/myapp $ cp ~/iot/lesson4/stevens/views.py .
pi@Zhaoning:~/stevens/myapp $ mkdir static templates
pi@Zhaoning:~/stevens/myapp $ cd templates
pi@Zhaoning:~/stevens/myapp/templates $ mkdir myapp
pi@Zhaoning:~/stevens/myapp/templates $ cd myapp
pi@Zhaoning:~/stevens/myapp/templates/myapp $ cp ~/iot/lesson4/stevens/index.html .
pi@Zhaoning:~/stevens/myapp/templates/myapp $
```

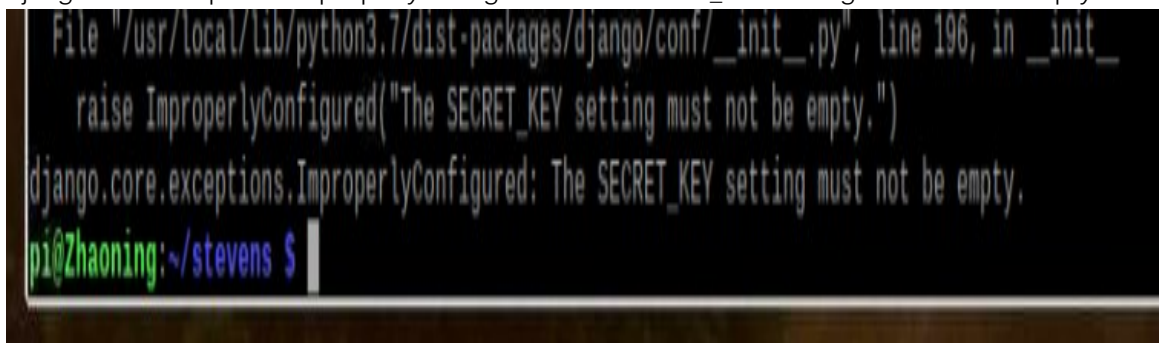
Run Django server

RuntimeError: Model class myapp.models.TemperatureData doesn't declare an explicit app_label and isn't in an application in INSTALLED_APPS.

Then change setting.py from setting.txt

New error

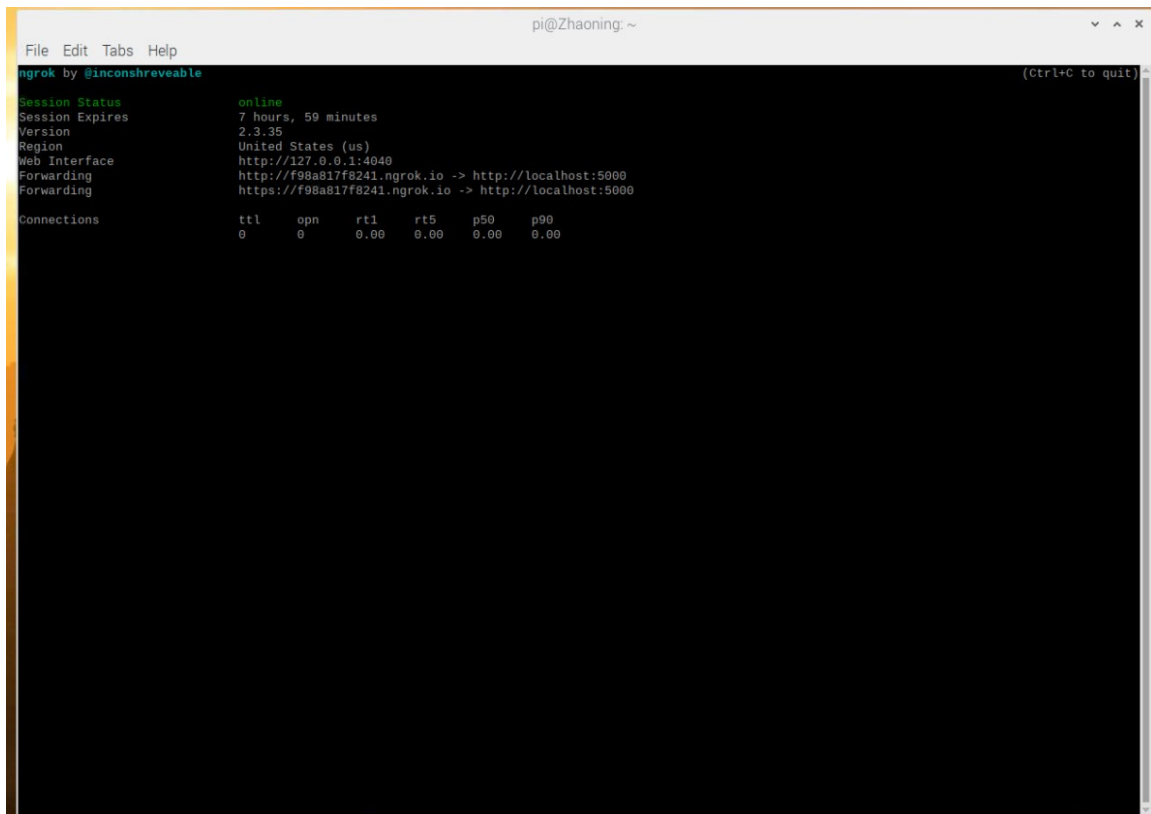
raise ImproperlyConfigured("The SECRET_KEY setting must not be empty.")
django.core.exceptions.ImproperlyConfigured: The SECRET_KEY setting must not be empty.

A terminal window showing a traceback of a Django configuration error. The error message is 'django.core.exceptions.ImproperlyConfigured: The SECRET_KEY setting must not be empty.' The traceback points to the file '/usr/local/lib/python3.7/dist-packages/django/conf/__init__.py', line 196, in the __init__ function. The user is currently in the directory ~/stevens.

```
File "/usr/local/lib/python3.7/dist-packages/django/conf/__init__.py", line 196, in __init__
    raise ImproperlyConfigured("The SECRET_KEY setting must not be empty.")
django.core.exceptions.ImproperlyConfigured: The SECRET_KEY setting must not be empty.
pi@Zhaoning:~/stevens $
```

Lab 4C: Flask

Terminal 1: Install [Flask-Ask](#) and [Ngrok](#) for Alexa Skill Kit (ASK)



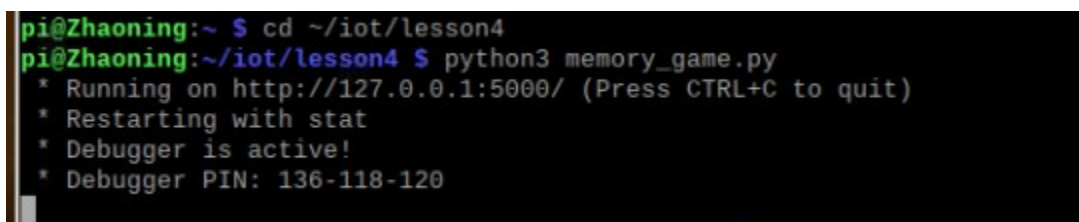
The screenshot shows a terminal window titled "pi@Zhaoning: ~". The terminal displays the output of the "ngrok" command, showing the session status as "online" and providing details about the session, including the version (2.3.35), region (United States (us)), and web interface URL (http://127.0.0.1:4040). It also shows the forwarding rules: http://f98a817f8241.ngrok.io -> http://localhost:5000 and https://f98a817f8241.ngrok.io -> http://localhost:5000. At the bottom, there is a table showing connection statistics.

```
File Edit Tabs Help
ngrok by @inconshreveable (Ctrl+C to quit)

Session Status      online
Session Expires     7 hours, 59 minutes
Version             2.3.35
Region              United States (us)
Web Interface        http://127.0.0.1:4040
Forwarding           http://f98a817f8241.ngrok.io -> http://localhost:5000
                    https://f98a817f8241.ngrok.io -> http://localhost:5000

Connections
  ttl    opn    rt1    rt5    p50    p90
   0      0     0.00   0.00   0.00   0.00
```

Terminal 2: [Memory Game](#)



The screenshot shows a terminal window with the following commands and output:

```
pi@Zhaoning:~ $ cd ~/iot/lesson4
pi@Zhaoning:~/iot/lesson4 $ python3 memory_game.py
* Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)
* Restarting with stat
* Debugger is active!
* Debugger PIN: 136-118-120
```

Open a browser and sign in in [Alexa Developer Console](#)



Which skill do you want to enable?

memory game



Welcome to memory game. I'm going to say three numbers for you to repeat backwards. Ready?

yes



Can you repeat the numbers 2, 2, 4 backwards?

four two two



Good job!

memory game



Welcome to memory game. I'm going to say three numbers for you to repeat backwards. Ready?

yes



Can you repeat the numbers 5, 0, 7 backwards?

five zero seven



Sorry, that's the wrong answer.

Lab 4D: LAMP

