

# COMP1531

## 8.4 - Admin - Project - Iteration 3

Let's discuss

# Sending Emails

This is one of the more challenging parts of Iteration 3. You can create a dummy gmail account and make sure it is a **less secure app**.

Once that is done, you can usually search around the internet for python-based SMTP libraries that will allow you to send emails.

Work collaboratively with your team to solve this problem.

# Storing and serving images

Fetching image via URL  
(imgDown.py)



Cropping image  
(week8/crop.py)



Serving image  
(week8/static.py)

# Using threads & timers

Most of what we do in python is single-threaded, i.e. if an action takes a while to complete, the program stops and waits for that action to be complete.

To do more interesting things like "set a timer to execute code later" we need to use the threading library so that multiple paths/streams of the program can be completed concurrently.

# Using threads & timers

timer.py

```
1 import threading
2 import time
3
4 def hello():
5     print("hello, Timer")
6
7 if __name__ == '__main__':
8     t = threading.Timer(3.0, hello)
9     t.start()
```

source:

[https://www.bogotobogo.com/python/Multithread/python\\_multithreading\\_subclassing\\_Timer  
Object.php](https://www.bogotobogo.com/python/Multithread/python_multithreading_subclassing_Timer_Object.php)