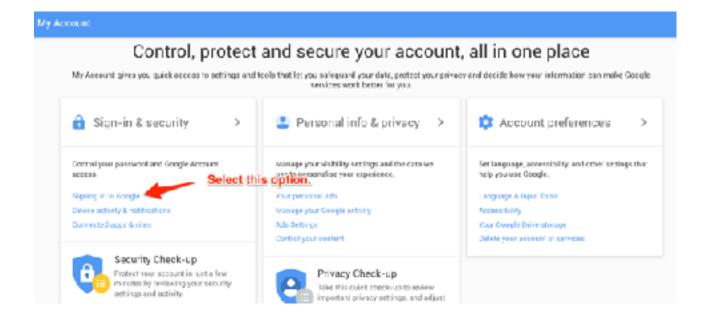
INFO3180 Lab 3

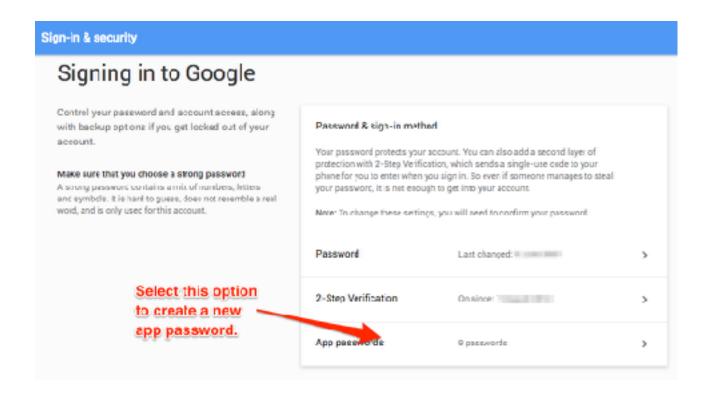
Due Date: 12 February, 2017

Exercise 1 - Sending Mail with Gmail

Step 1 - Prepare an app password

Create a Gmail account if you don't already have one and login to your account. Once you are logged in go to https://myaccount.google.com/ to create an app password which will be used exclusively for sending email.







You will then see a modal with a generated password that you can use in your application.

Step 2 - Create an email sending script

Edit the script below to successfully send an email. *Hint:* There will be some errors that you need to fix. •

```
import smtplib
from_addr = 'yourusername@gmail.com'
to_addr = 'david@someemail.com'
message = """From: {} <{}>
To: {} <{}>
```

```
Subject: {}
{}
.....
message_to_send = message.format(from_name, from_addr, to_name,
                to_addr, subject, msg)
# Credentials (if needed)
username = 'yourusername@gmail.com'
password = '{youremailapppassword}'
# The actual mail send
server = smtplib.SMTP('smtp.gmail.com:587')
server.starttls()
server.login(username, password)
server.sendmail(from_addr, to_addr, message_to_send)
server.quit()
```

Call the script "**sendemail.py**". You can run the script by running the following at the command line:

```
python sendemail.py
```

Once you have it working add the script to your github account as a new repository. Name the repository "**info3180-lab3-ex1**". It should contain the working script.

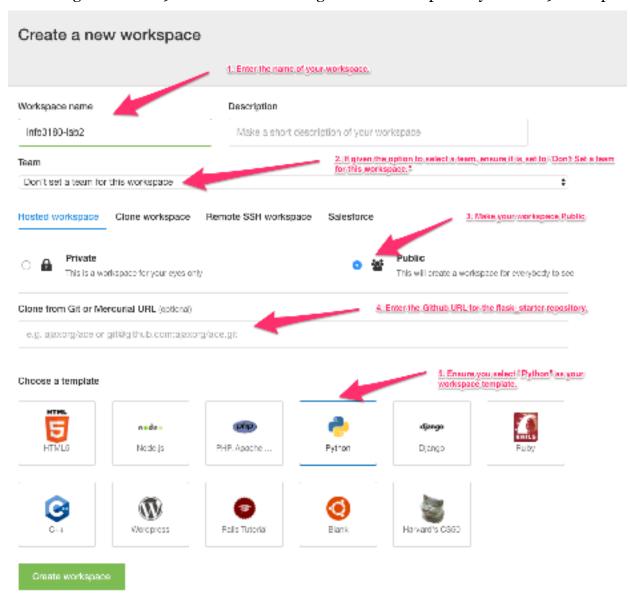
Note: Please remove your Gmail username and password before committing and pushing to your repository.

Exercise 2 - Creating a Email Sending Form

For this tutorial use the flask_starter repository as your starting point, you can get it here: https://github.com/uwi-info3180/flask_starter

Step 1 - clone the repository

If working with Cloud9 then do the following to clone the repository to the C9 workspace:



or if working on your own local computer then do the following:

git clone https://github.com/uwi-info3180/flask_starter info3180lab3-ex2

Step 2 - Create your own info3180-lab3-ex2 repository in github

You can do this by removing the **.git** folder and initialising git again:

```
cd info3180-lab3-ex2 #not needed if you are working on Cloud9
rm -rf .git/
git init
git add .
git commit -am 'initial commit'
```

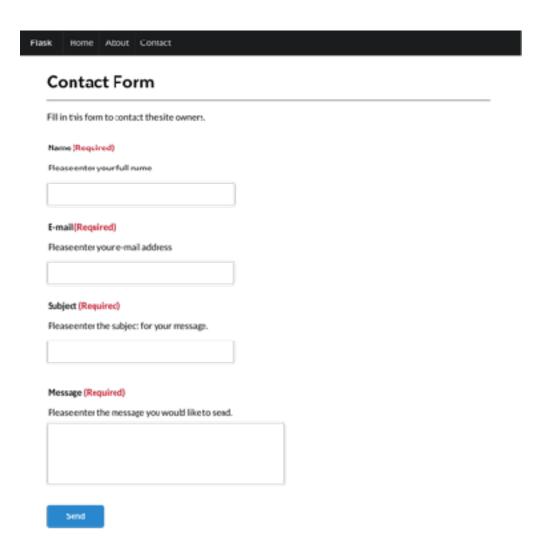
Then login to your Github account and visit http://github.com/new. Create a repository with the name "info3180-lab3-ex2". Ensure you don't create this repository with a README or any other files initially. Next add this new repository as a remote repository to your workspace and then push your code to it.

```
git remote add origin https://github.com/{yourusername}/info3180-lab3-ex2.git
git push -u origin master
```

Step 3 - Create Contact form

Make your contact form available at the route "/contact" and name the associated method "contact()". You should also name your template "contact.html"

It should look something like this:



Step 4 - Create a method that will send email

Create a method called **send_email()** that will send an email, based on what you know of the **smtplib** library that you used in Exercise 1. The method will use the input of the form to send messages. It will work something like this:

```
send_email(from_name, from_email, subject, msg)
```

You should use this **send_email()** method within your **contact()** method when a **POST** request is made. You can access then values your form data by using the global

request object, for example **request.form['field_name']**. After you send the message, ensure you **redirect** the user to your home page and display a **flash** message letting them know their email was successfully sent.

Hint: Here's an example of how to use the **request** object to get form data and the **flash()** and **redirect()** methods.

http://flask.pocoo.org/docs/0.12/quickstart/#the-request-object http://flask.pocoo.org/docs/0.12/patterns/flashing/

Note: Please remove your Gmail username and password before saving/committing to your repository.

Submission

Submit your code via the "Lab 3 Submission" link on OurVLE. You are NOT required to push your code to Heroku. You should submit the following links:

- 1. Your Github repository URL for your Email sending script e.g. https://github.com/
 {vourusername}/info3180-lab3-ex1
- 2. Your Github repository URL for your Flask Exercise e.g. https://github.com/
 {yourusername}/info3180-lab3-ex2