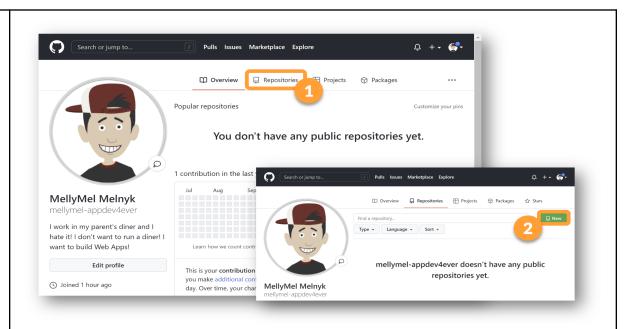
Zena's Streamlit App Cheat Sheet

This document is for learners who already did the DABW badge but can't remember all the steps for setting up a Streamlit app. Setting up your own version of Zena's App is **OPTIONAL**. Use this cheat sheet to get a new app up and running, then copy the final code from the last step of this document. This creates a copy of Zena's Athleisure Web Prototype for anyone who likes AppDev and wants a little more practice with Streamlit.

Sign in to your Github account.

Click Repositories, New.

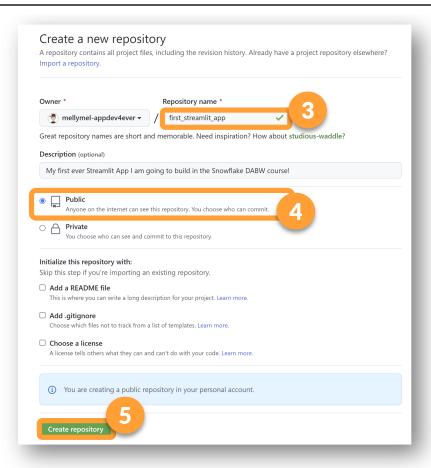


Name the repo something that makes sense for the APP name.

IT MUST BE PUBLIC.

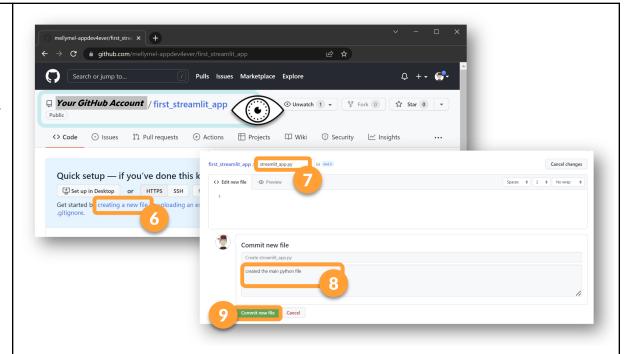
Maybe

zenas_web_Catalog?



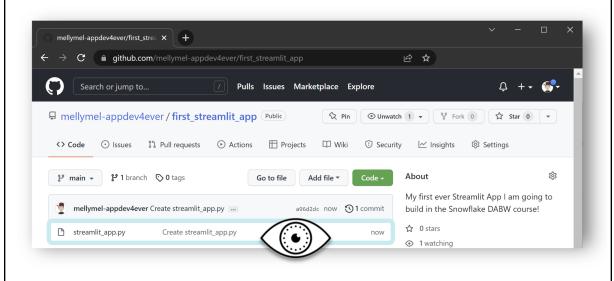
Create a file that ends in .py

All apps should probably have the same name for this file.



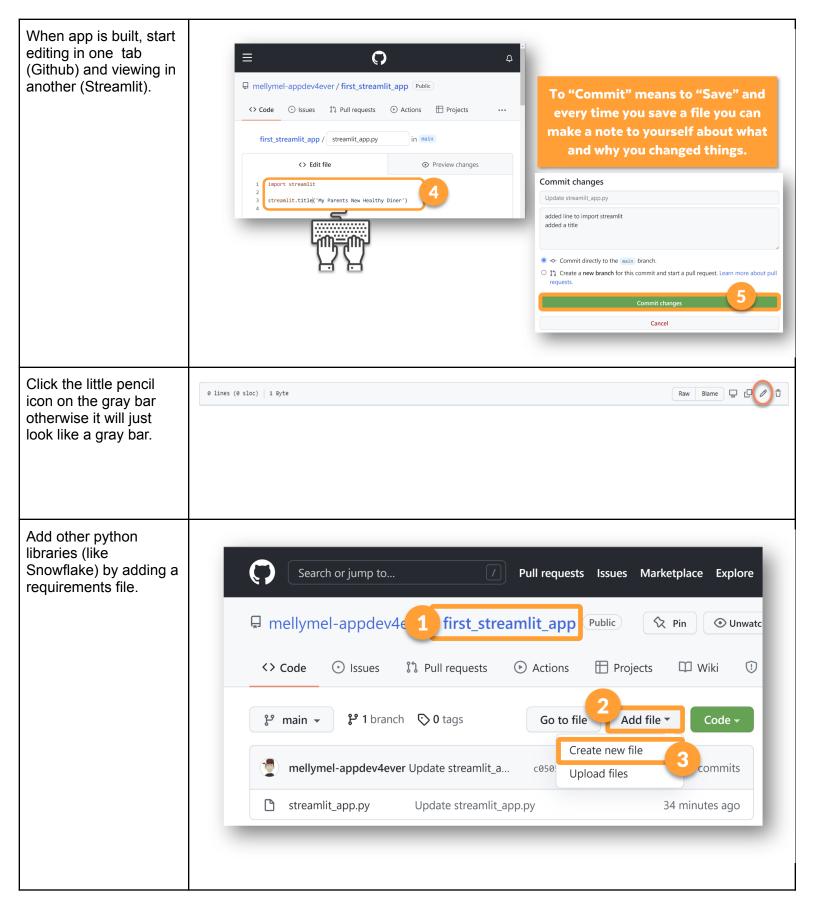
Check to make sure it exists.

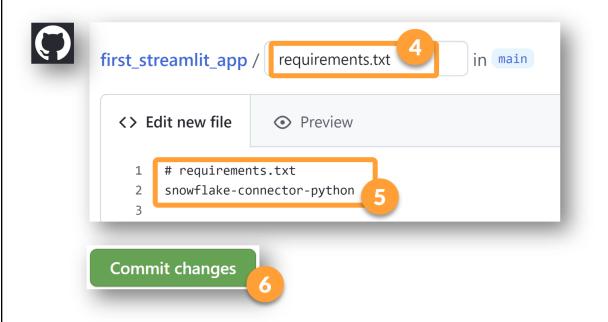
Notice that the branch name is MAIN.



Create App in Streamlit.

- Sign in to your existing Streamlit account.
- Click the New App button
- Select your new Repo from the drop list in the top field.
- Leave default in place for the other two fields.





If you see errors like this one saying VERSION MISMATCH

```
File "/home/appuser/.conda/lib/python3.7/site-packages/cffi/api.py", line 54, raise Exception("Version mismatch: this is the 'cffi' package version %s,
```

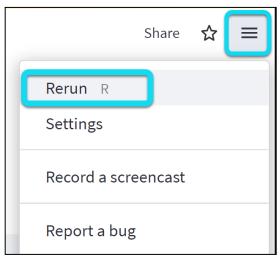
You will need to add lines to the requirements.txt file telling Streamlit exactly what versions of which packages you want it to use.

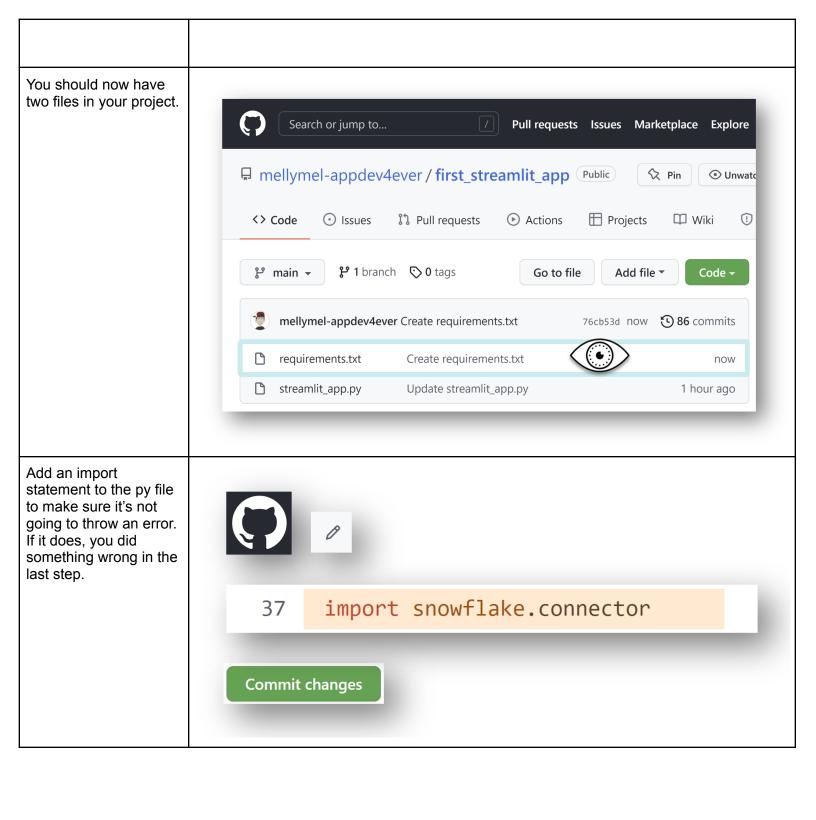
In this case it says there is a version issue with something called "the cffi package" so we add this to our requirements file and save it.

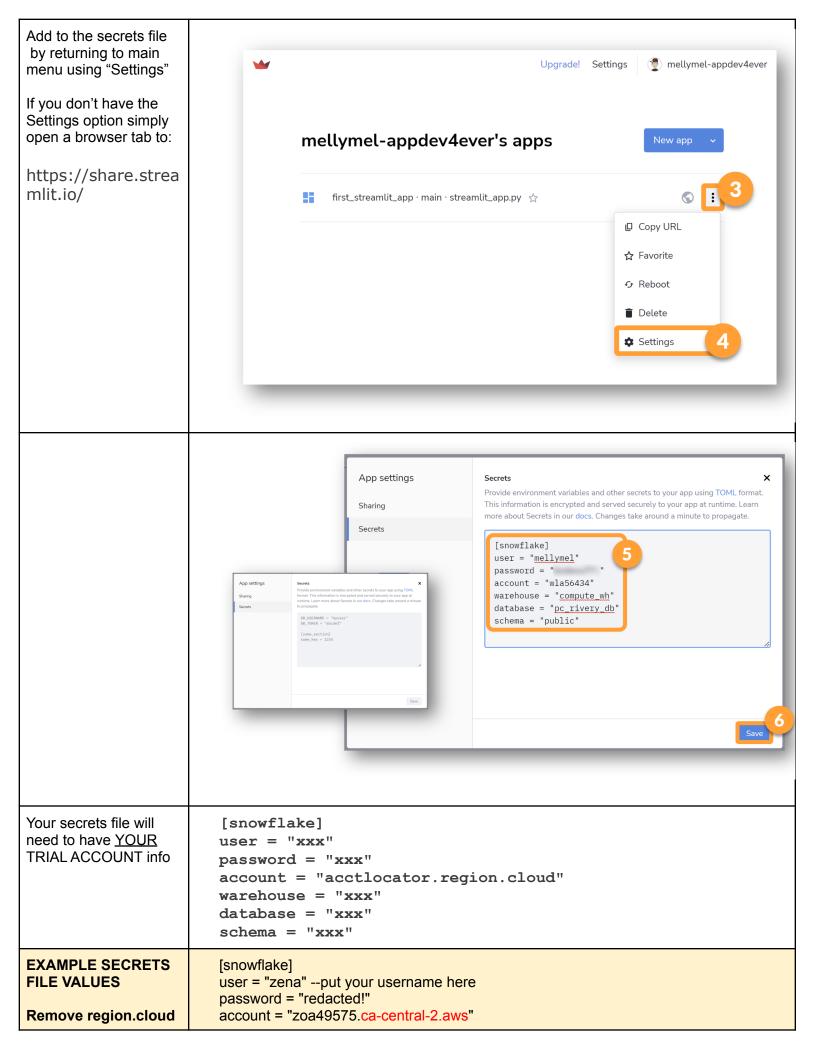
```
3 lines (3 sloc) | 59 Bytes

1  # requirements.txt
2  snowflake-connector-python
3  cffi==1.15.0
```

After you make a change like this, you have to restart the app because Streamlit needs to load a different package library. Use the menu in the upper right corner to RUN the app fresh.







```
if you are on
                          warehouse = "compute_wh"
                          database = "ZENAS ATHLEISURE DB"
us-west-2.aws
                          schema = "PRODUCTS"
This region and cloud
is the OG so it
doesn't need to be
stated
Copy this code into the
                          my cnx = snowflake.connector.connect(**streamlit.secrets["snowflake"])
main py file and run to
make sure
requirements, secrets,
                          my cur = my cnx.cursor()
and connection are all
working together.
                          my cur.execute("SELECT CURRENT USER(), CURRENT ACCOUNT(),
                             CURRENT REGION()")
Edit the secrets file until
you get a successful
                          my_data_row = my_cur.fetchone()
connection.
                          streamlit.text("Hello from Snowflake:")
                          streamlit.text(my data row)
```

FINAL Code we used for Zena's Web Catalog Prototype

```
import streamlit
import snowflake.connector
import pandas
streamlit.title('Zena\'s Amazing Athleisure Catalog')
# connect to snowflake
my_cnx = snowflake.connector.connect(**streamlit.secrets["snowflake"])
my_cur = my_cnx.cursor()
# run a snowflake query and put it all in a var called my_catalog
my cur.execute("select color or style from catalog for website")
my_catalog = my_cur.fetchall()
# put the dafta into a dataframe
df = pandas.DataFrame(my_catalog)
# temp write the dataframe to the page so I Can see what I am working with
# streamlit.write(df)
# put the first column into a list
color list = df[0].values.tolist()
# print(color list)
# Let's put a pick list here so they can pick the color
option = streamlit.selectbox('Pick a sweatsuit color or style:', list(color list))
# We'll build the image caption now, since we can
product caption = 'Our warm, comfortable, ' + option + ' sweatsuit!'
# use the option selected to go back and get all the info from the database
```

THIS IS AN OPTIONAL EXERCISE SO WE WILL NOT SUPPORT YOUR TROUBLESHOOTING. YOU MAY POST ON THE MESSAGE BOARDS ABOUT ISSUES BUT SNOWFLAKE STAFF WILL NOT BE ANSWERING YOUR INQUIRIES. YOU WILL NEED TO HOPE FOR THE BEST FROM YOUR PEERS OR SEARCH STREAMLIT DOCS OR POST ON STACK OVERFLOW.