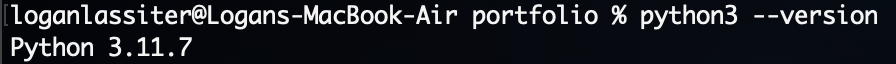
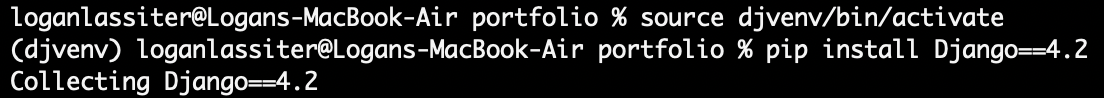
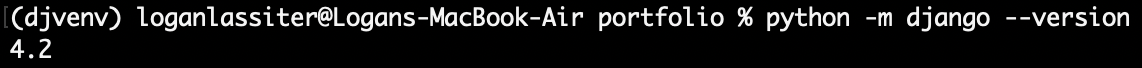
**2.1 Create Virtual Environment and Django Project**

**Activation and Installation of Django 4.2**

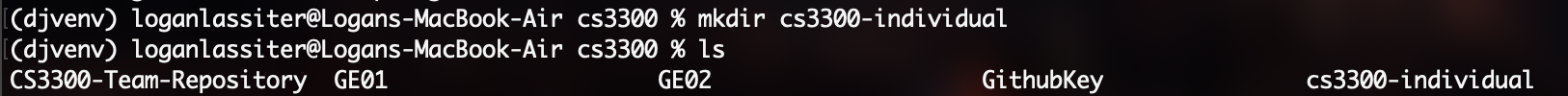
These instructions show examples of working on a Mac for the commands. Note how you must run the commands in your environment.

**1. Open the terminal and check your python version.**

* Inside of the terminal, enter these commands
  + $ python3 --version  
    - You should be using python 3.11
    - 
* Inside of the portfolio directory, run commands:
  + $ source djvenv/bin/activate
  + $ pip install Django==4.2
  + $ python -m django --version  
    - These commands will let you activate the Django virtual environment, install Django version 4.2, and confirm that you had the right version installed
    - 
    - 

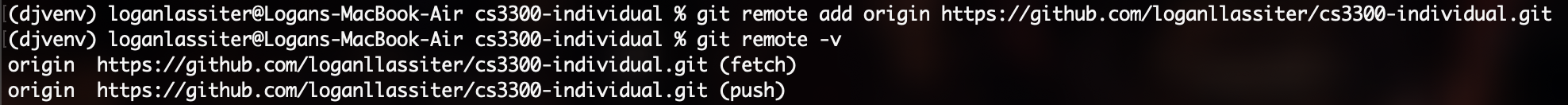
**2.2 Create Local Git and Github Repository**

**1. Prepare existing local directory to be added to GitHub**

* If you do not have an existing local directory to use for your Github repository create one.
  + $ mkdir  
    - 
* Here is a guide to [create a repo from an existing local directory](https://docs.github.com/en/migrations/importing-source-code/using-the-command-line-to-import-source-code/adding-locally-hosted-code-to-github)
* Use the following commands (if you run into trouble revert to linked guide):
  + $ cd [your-local-directory] // change directory to the local directory you want to use for your repo
  + $ git init -b main // initialize the main branch
  + $ touch .gitignore // create .gitignore file, this will avoid running into a .DS\_Store error (more on git ignore files at the bottom of the section)
  + $ git add . // stage the files for initial commit
  + $ git commit -m "First commit" // commits/saves changes and prepares them to be pushed  
    - A screen shot of a computer

      Description automatically generated

**2. Create and link GitHub repo with local directory.**

* Create a new repository on GitHub.com
  + Make the repository private
  + Do not initialize ReadMe, license, gitignore files
  + You may need to setup authentication with GitHub, follow the HTTPS guide [here](https://docs.github.com/en/authentication/keeping-your-account-and-data-secure/about-authentication-to-github#https)
* Copy the repository URL and open your local project directory in the terminal.
* Use the following commands:
  + $ git remote add origin [copied-repo-URL] // links local directory to GitHub Repo
  + $ git remote -v // verifies link was successful  
    - 

**3. Push changes in local directory to GitHub.com**

* Run the following command:
  + $ git push -u origin main  
    - A screen shot of a computer

      Description automatically generated

**gitignore**

You can setup [gitignore](https://docs.github.com/en/get-started/getting-started-with-git/ignoring-files) files so, that Git ignores files you do not want added to GitHub.

[Here](https://gist.github.com/octocat/9257657) is an example of a gitignore file.