Lab 4.1 Stretch - ClarityNLP

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Abstract — This is the Lab 4.1 Stretch assignment for ClarityNLP for CS 6440 - Intro to Health Informatics. This document includes screenshots for Exercise #2 - NLPQL Phenotype Walkthrough. It also has a link to a recording of a demonstration of different features of ClarityNLP as described in Exercise #3 - ClarityNLP Demonstration.

1 EXERCISE #2 - NLPQL PHENOTYPE WALKTHROUGH

Below are screenshots of following the instructions in the documentation to walk through an NLPQL Phenotype (ClarityNLP, 2018).

When trying to execute the command `make start-clarity-localhost`, if docker is not running, you'll get errors like this:

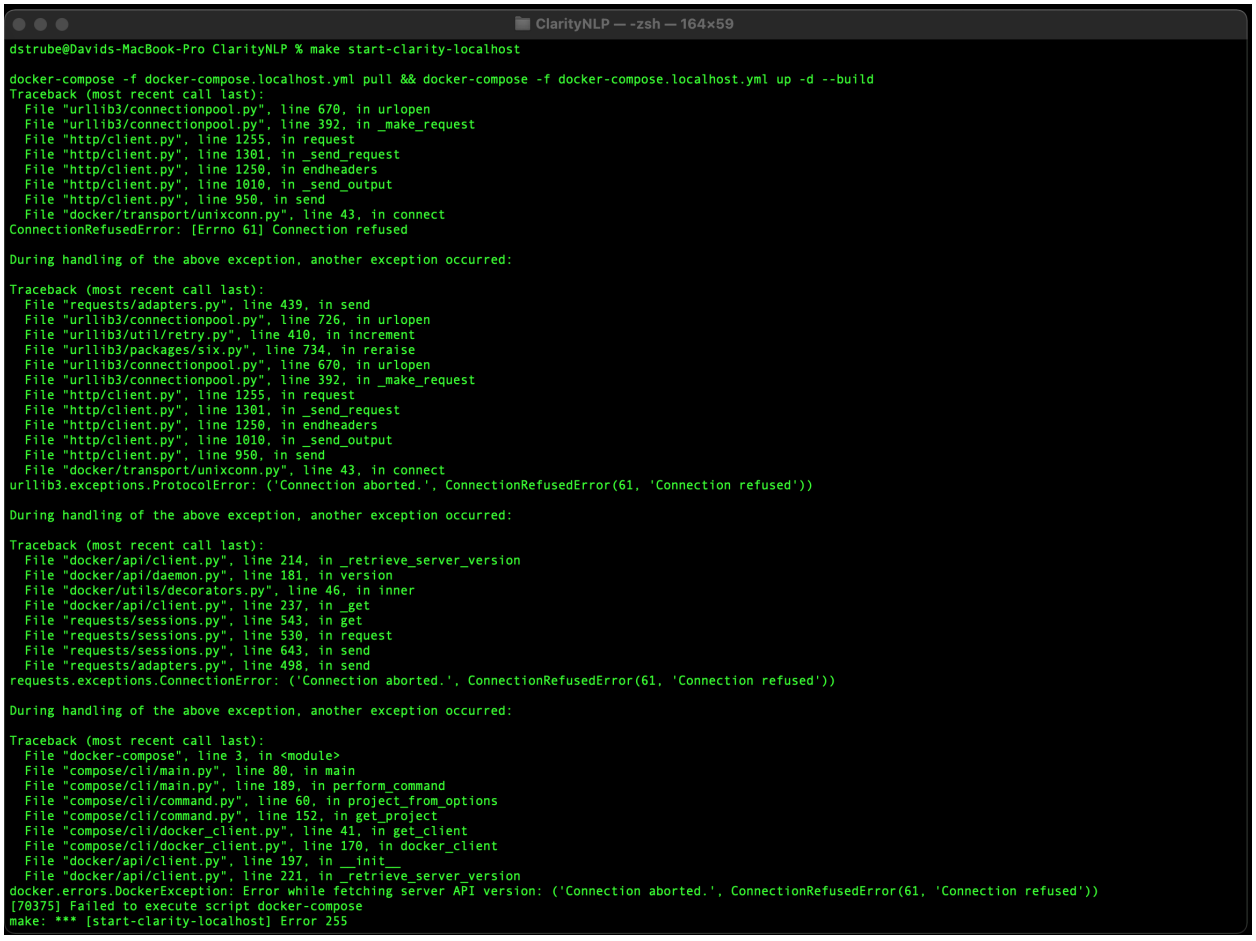


Figure 1—Error start up if docker is not running.

When executing the command `make start-clarity-localhost`, if docker is running, you'll get a response like this:

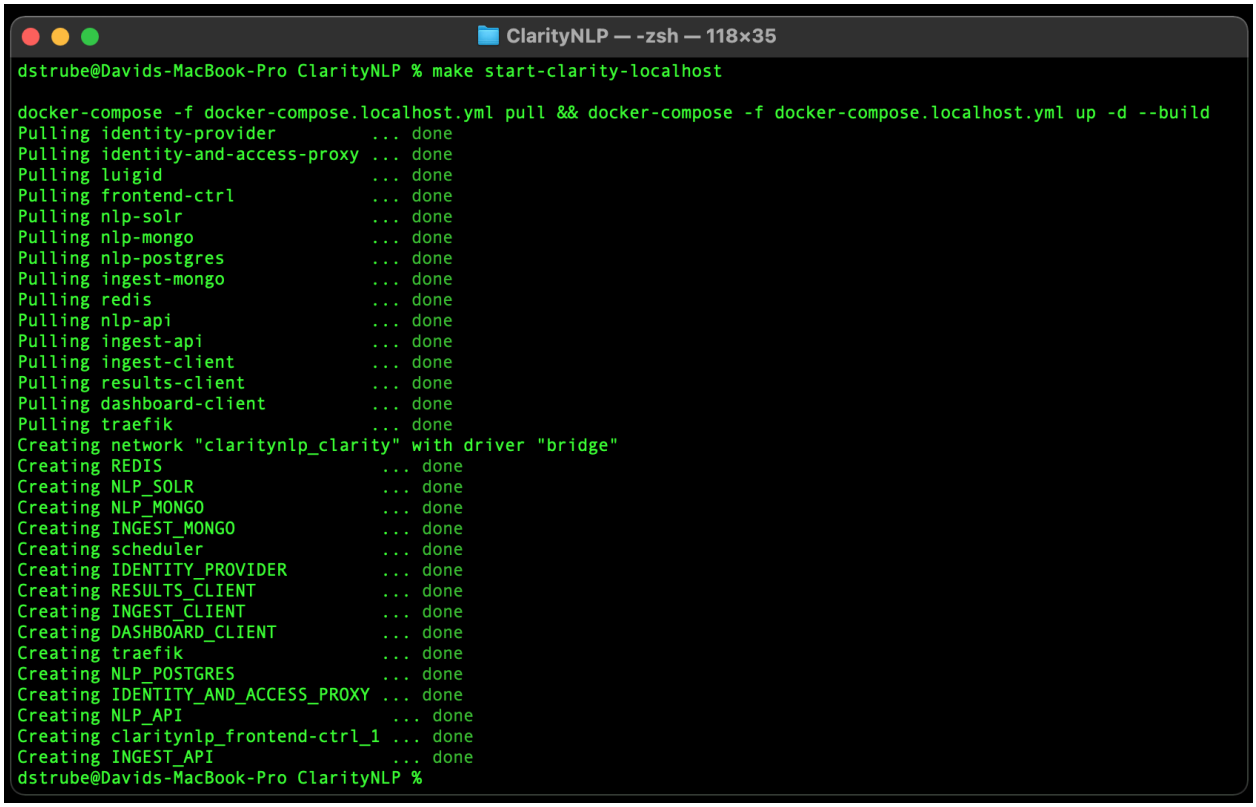


Figure **2**—Response if docker is running.

When opening Docker with ClarityNLP running, it will look like this. Note the options you get when you mouse over most items are: *CLI* (command line interface), *STOP*, *RESTART*, and *DELETE*. For the item `traefik`, the options also include *OPEN IN BROWSER*. For the root `ClarityNLP` item, the options also include *Open in Visual Studio Code*. (This option may or may not be available if you don't have Visual Studio Code installed.)

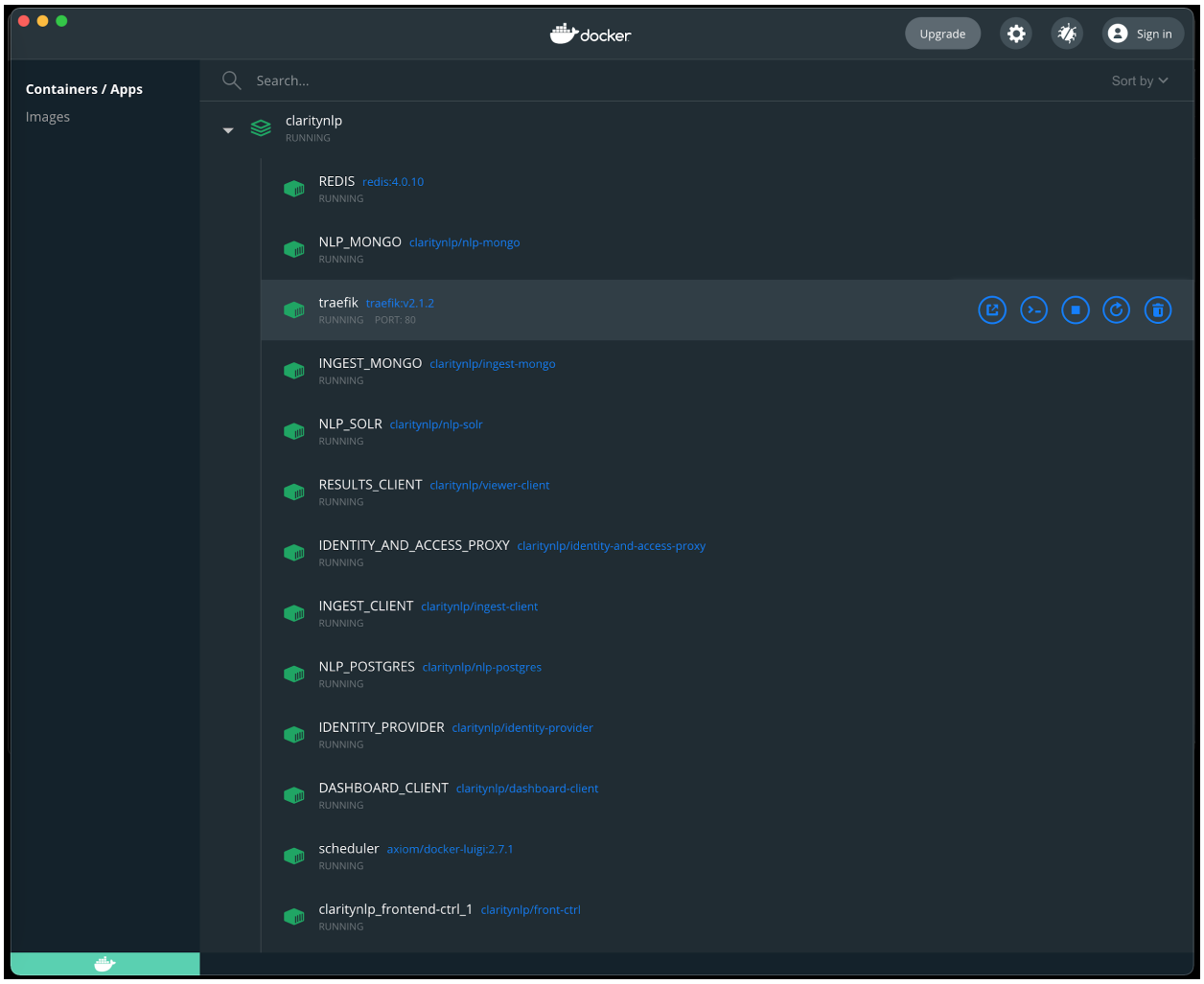


Figure 3—ClarityNLP in Docker.

Opening ClarityNLP in Visual Studio Code looks like this. Note that the file `PatientTemperatures.nlpql` can be edited so that the `termset` can be renamed, like it is in this screenshot to `TemperatureTerms_dstrube3`:

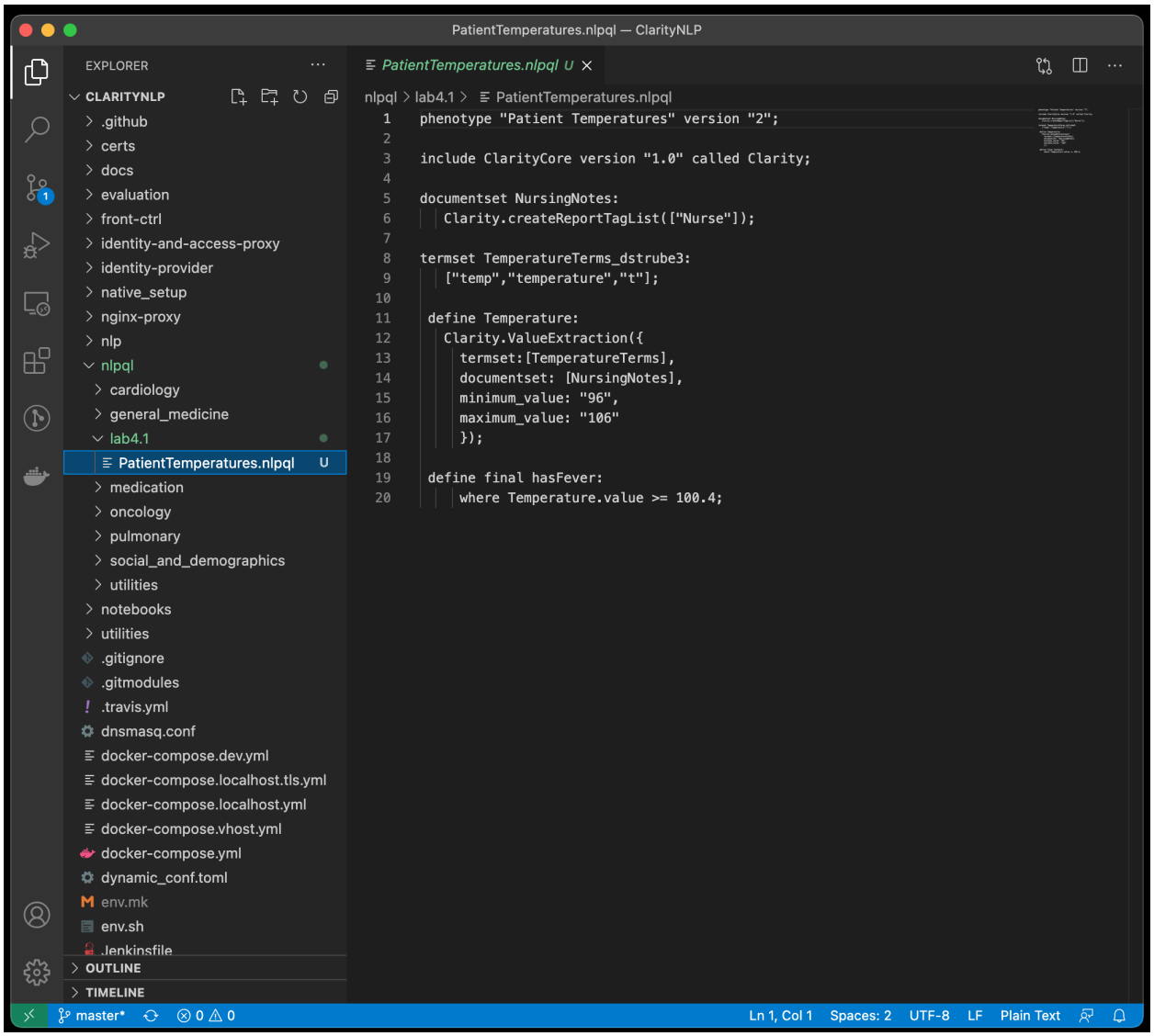


Figure 4—ClarityNLP in Visual Studio Code.

At some point, you may be prompted to install extensions for Python and Pylint in VS Code. This is probably a good idea and will look like this when it's done:

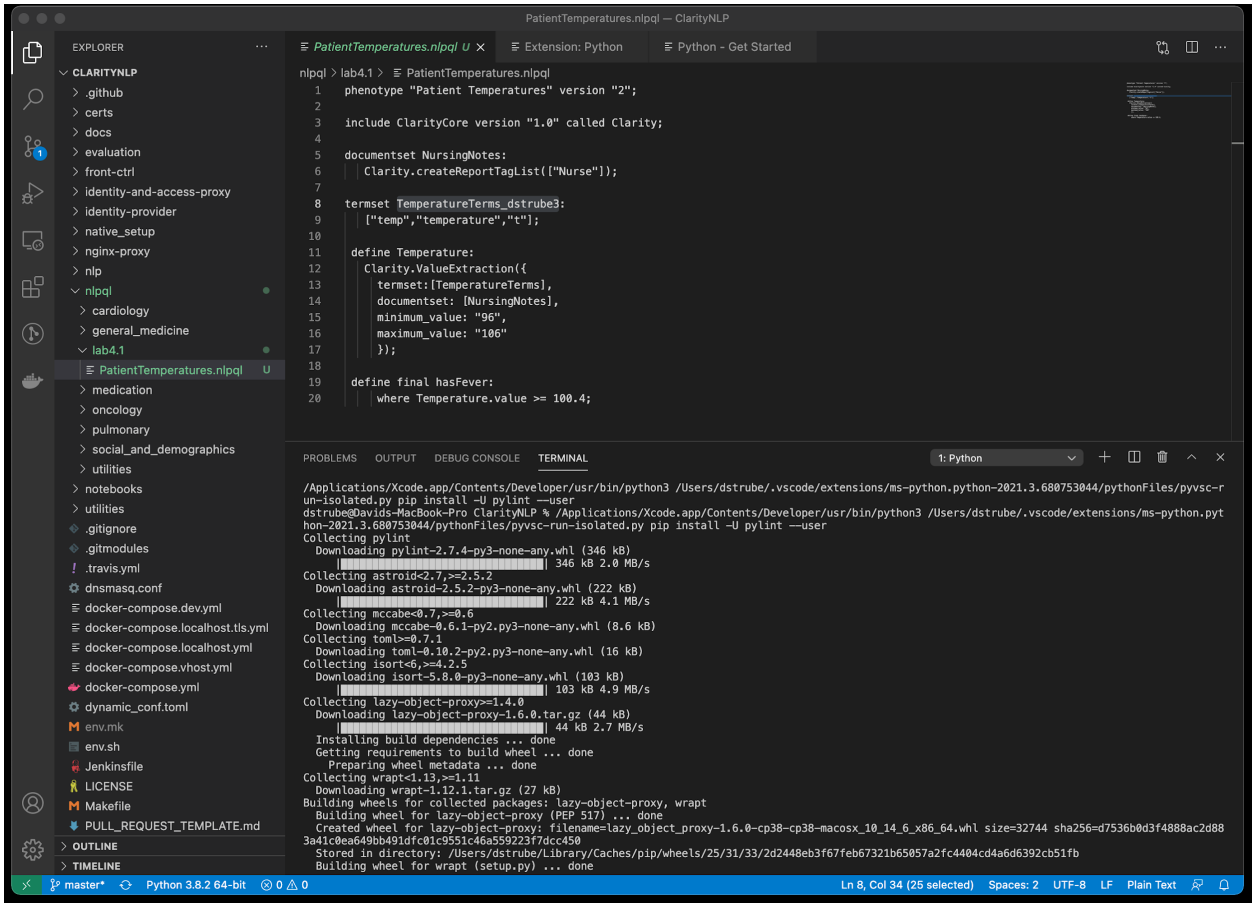
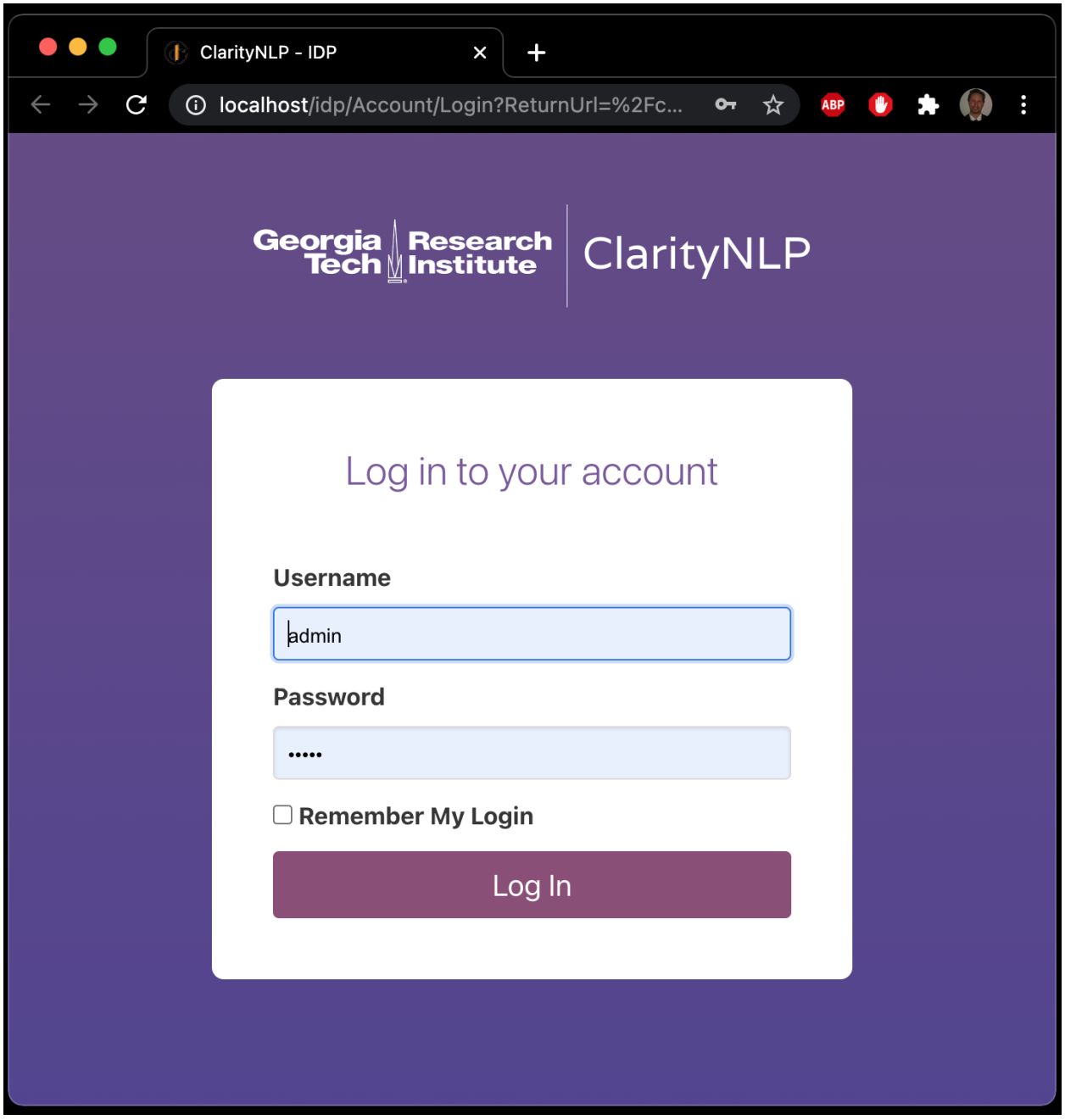


Figure 5—Python in Visual Studio Code.

Once Docker is running ClarityNLP, you can access the ClarityNLP Dashboard at this URL: http://localhost/dashboard. You'll get a login screen that looks like this. The username is `admin` and the password is `admin`.



The rest of the interface will be explored in the next section.

2 EXERCISE #3 - CLARITYNLP DEMONSTRATION

My demonstration utilizing the different features of ClarityNLP using a local instance can be found here: https://youtu.be/_qUBdu5ddF0.

3 REFERENCES

1. ClarityNLP. (2018). Local Machine Setup With Docker - ClarityNLP documentation. https://claritynlp.readthedocs.io/en/latest/setup/local-docker.html. Accessed April 4, 2021.